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[go-ontology] Inference Changes Report

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Mon, Nov 27, 2017 at 11:56 PM

To: go-ontology@mailman.stanford.edu

Report for: 2017-11-27

[e4aca7cbc4a0b60da0a01c0ea930fd868c28a5d8](#) pgaudet ADD: 3663 DEL: 129 terms: 2861

[e4aca7cbc4a0b60da0a01c0ea930fd868c28a5d8](#) pgaudet ADD: 0 DEL: 0 terms: 0

[22f4a3919c00543dd350376394a10667dd16a43e](#) dosumis ADD: 26 DEL: 5 terms: 37

[a76228b4609b557889ee1e60955638c7b15ae043](#) Pascale Gaudet ADD: 0 DEL: 0 terms: 0

**[e4aca7cbc4a0b60da0a01c0ea930fd868c28a5d8](#): pgaudet ADD: 3663
DEL: 129 terms: 2861**

Date: 2017-11-27 18:02:36 +0100

Merge pull request #14653 from geneontology/11902-2

changes in entailments

```
--- go_inferences.obo-previous 2017-11-27 09:06:33.000000000 -0800
+++ go_inferences.obo 2017-11-27 21:51:29.273571063 -0800
@@ -2,144 +2,7176 @@
ontology: go/imports/go_inferences
```

[Term]

+id: CHEBI:10003 ! ribostamycin sulfate

+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application

+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent application

+

+[Term]

+id: CHEBI:100147 ! nalidixic acid

+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application

+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property

+

+[Term]

+id: CHEBI:10119 ! ziprasidone

+is_a: GOCHE:35476 {is_inferred="true"} ! substance with antipsychotic drug application

+is_a: GOCHE:52210 {is_inferred="true"} ! substance with pharmacological biological role

+

+[Term]

+id: CHEBI:10329 ! alpha-ribazole

+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role

+

+[Term]

+id: CHEBI:10352 ! beta-amyrin

+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role

+

+[Term]

+id: CHEBI:10415 ! beta-endorphin

+is_a: GOCHE:25512 {is_inferred="true"} ! substance with neurotransmitter biological role

+

+[Term]

+id: CHEBI:10642 ! scyllo-inositol
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:111511 ! (beta-D-glucopyranosyloxymethyl)deoxyuridine 5'-monophosphate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:11892 ! N-carbamoyl-beta-alaninate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:1230 ! sophorose
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:12777 ! vitamin A
+is_a: GOCHE:24020 {is_inferred="true"} ! substance with fat-soluble vitamin biological role
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:128769 ! isopentenyl diphosphate(3-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:12931 ! D-galactonate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:12952 ! aldehydo-D-galacturonate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:131429 ! carcinine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:132755 ! triethanolammonium
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:133538 ! L-lysine zwitterion
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:13389 ! NAD
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:133917 ! ochratoxin alpha
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:134045 ! polychlorinated dibenzodioxines and related compounds
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:134256 ! lipid A (E. coli)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:134269 ! 1-(3,5-dichloro-2,6-dihydroxy-4-methoxyphenyl)pentan-1-one
+is_a: GOCHE:33280 {is_inferred="true"} ! substance with molecular messenger biological role
+
+

```
+ [Term]
  id: CHEBI:13534 ! acyl-carrier protein
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: PR:000000001 {is_inferred="true"} ! protein
+
+ [Term]
  id: CHEBI:136184 ! jasmonic acid anion
+is_a: GOCHE:37848 {is_inferred="true"} ! substance with phytohormone biological role
+
+ [Term]
  id: CHEBI:13705 ! acetoacetate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
  id: CHEBI:13850 ! apoprotein
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
  id: CHEBI:1427 ! 3-(3-hydroxyphenyl)propanoic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
  id: CHEBI:14314 ! D-glucose 6-phosphate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
  id: CHEBI:14321 ! glutamate(1-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
  id: CHEBI:14336 ! glycerol 1-phosphate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
  id: CHEBI:1438 ! 3-(methylthio)propionic acid
+is_a: GOCHE:38231 {is_inferred="true"} ! substance with phytotoxin biological role
+
+ [Term]
  id: CHEBI:15035 ! retinal
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
  id: CHEBI:15075 ! selenate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
  id: CHEBI:15318 ! xanthine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
  id: CHEBI:15333 ! zeatin
+is_a: GOCHE:23530 {is_inferred="true"} ! substance with cytokinin biological role
+
+ [Term]
  id: CHEBI:15343 ! acetaldehyde
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
  id: CHEBI:15346 ! coenzyme A
+is_a: GOCHE:23354 {is_inferred="true"} ! substance with coenzyme biological role
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
  id: CHEBI:15347 ! acetone
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
```

```

property
+
+[Term]
+id: CHEBI:15351 ! acetyl-CoA
+is_a: GOCHF:23354 {is_inferred="true"} ! substance with coenzyme biological role
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:15353 ! blasticidin S
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOCHF:24127 {is_inferred="true"} ! substance with fungicide application
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:15354 ! choline
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:25512 {is_inferred="true"} ! substance with neurotransmitter biological
role
+is_a: GOCHF:33284 {is_inferred="true"} ! substance with nutrient biological role
+
+[Term]
+id: CHEBI:15355 ! acetylcholine
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:24621 {is_inferred="true"} ! substance with hormone biological role
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:25512 {is_inferred="true"} ! substance with neurotransmitter biological
role
+
+[Term]
+id: CHEBI:15356 ! cysteine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:15358 ! histone
  is_a: PR:000000001 {is_inferred="true"} ! protein

  [Term]
-id: CHEBI:15358 ! histone
-is_a: PR:000000001 {is_inferred="true"} ! protein
+id: CHEBI:15361 ! pyruvate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:15365 ! acetylsalicylic acid
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOCHF:50249 {is_inferred="true"} ! substance with anticoagulant application
+is_a: GOCHF:50427 {is_inferred="true"} ! substance with platelet aggregation inhibitor
application
+is_a: GOCHF:52210 {is_inferred="true"} ! substance with pharmacological biological
role
+
+[Term]
+id: CHEBI:15366 ! acetic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+is_a: GOCHF:52211 {is_inferred="true"} ! substance with physiological biological role
+
+[Term]
+id: CHEBI:15367 ! all-trans-retinoic acid
+is_a: GOCHF:33280 {is_inferred="true"} ! substance with molecular messenger biological
role
+is_a: GOCHF:35610 {is_inferred="true"} ! substance with antineoplastic agent
application
+is_a: GOCHF:48705 {is_inferred="true"} ! substance with agonist biological role

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```
+
+[Term]
+id: CHEBI:15372 ! 5,6,7,8-tetrahydrobiopterin
+is_a: GOCHF:23354 {is_inferred="true"} ! substance with coenzyme biological role
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:15373 ! biopterin
+is_a: GOCHF:23354 {is_inferred="true"} ! substance with coenzyme biological role
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:15377 ! water
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHF:37527 {is_inferred="true"} ! substance with acid chemical property
+
+[Term]
+id: CHEBI:15379 ! dioxygen
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:33284 {is_inferred="true"} ! substance with nutrient biological role
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:15380 ! succinyl-CoA
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:35222 {is_inferred="true"} ! substance with inhibitor chemical property
+
+[Term]
+id: CHEBI:15384 ! limonene
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:15409 ! (-)-menthol
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+
+[Term]
+id: CHEBI:15414 ! S-adenosyl-L-methionine
+is_a: GOCHF:23354 {is_inferred="true"} ! substance with coenzyme biological role
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:33284 {is_inferred="true"} ! substance with nutrient biological role
+
+[Term]
+id: CHEBI:15422 ! ATP
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:33284 {is_inferred="true"} ! substance with nutrient biological role
+
+[Term]
+id: CHEBI:15428 ! glycine
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOCHF:25512 {is_inferred="true"} ! substance with neurotransmitter biological
role
+is_a: GOCHF:33284 {is_inferred="true"} ! substance with nutrient biological role
+is_a: GOCHF:52210 {is_inferred="true"} ! substance with pharmacological biological
role
+
+[Term]
+id: CHEBI:15435 ! protoporphyrinogen
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:15437 ! uroporphyrinogen III
```

+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:15486 ! 3-methylbut-2-enoyl-CoA
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:15487 ! isovaleryl-CoA
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:15515 ! benzoyl-CoA
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:15517 ! butyryl-CoA
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:15531 ! malonyl-CoA
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:15539 ! propionyl-CoA
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:15552 ! prostaglandin I2
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:15570 ! D-alanine
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+
+[Term]
+id: CHEBI:15573 ! (2-aminoethyl)phosphonic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:15595 ! malate(2-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:15611 ! sarcosine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:35222 {is_inferred="true"} ! substance with inhibitor chemical property
+is_a: GOCHE:48705 {is_inferred="true"} ! substance with agonist biological role
+
+[Term]
+id: CHEBI:15625 ! S-adenosylmethioninamine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:15627 ! thromboxane A2
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:15633 ! dihydrofolic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:15637 ! 10-formyltetrahydrofolic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:15640 ! 5-formyltetrahydrofolic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:15647 ! leukotriene B4
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:15651 ! leukotriene A4
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:15652 ! 5'-xanthylic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:15674 ! 2,3-dihydroxybutanedioic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:15676 ! allantoin
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:15681 ! alpha-N-acetylneuraminosyl-(2->3)-beta-D-galactosyl-(1->4)-beta-D-glucosylceramide
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:15688 ! acetoin
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:15698 ! 2'-deoxycytidine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:15705 ! L-alpha-amino acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:15710 ! betaine aldehyde
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:15714 ! trans-sinapic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:33232 {is_inferred="true"} ! substance with application
+

+ [Term]
+id: CHEBI:15725 ! trimethylenediamine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:33232 {is_inferred="true"} ! substance with application
+

+ [Term]
+id: CHEBI:15727 ! carnosine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:35610 {is_inferred="true"} ! substance with antineoplastic agent application
+is_a: GOCHF:35623 {is_inferred="true"} ! substance with anticonvulsant application
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+

+ [Term]
+id: CHEBI:15729 ! L-ornithine
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application

+
+[Term]
+id: CHEBI:15732 ! phosphonoacetic acid
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHF:33281 {is_inferred="true"} ! substance with antimicrobial agent application
+
+[Term]
+id: CHEBI:15738 ! staurosporine
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+
+[Term]
+id: CHEBI:15740 ! formate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:15741 ! succinic acid
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:33284 {is_inferred="true"} ! substance with nutrient biological role
+
+[Term]
+id: CHEBI:15746 ! spermine
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:15748 ! D-glucuronate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:15750 ! dolichyl diphosphate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:15753 ! 2-oxoadipic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:15756 ! hexadecanoic acid
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:15760 ! tyramine
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:25512 {is_inferred="true"} ! substance with neurotransmitter biological role
+
+[Term]
+id: CHEBI:15765 ! L-dopa
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:26155 {is_inferred="true"} ! substance with plant growth regulator biological role
+is_a: GOCHF:52210 {is_inferred="true"} ! substance with pharmacological biological role
+is_a: GOCHF:64909 {is_inferred="true"} ! substance with poison biological role
+
+[Term]
+id: CHEBI:15767 ! dichloromethane
+is_a: GOCHF:24432 {is_inferred="true"} ! substance with biological role

+is_a: GOCHE:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:15776 ! cephalosporin C
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:15792 ! malonate(2-)
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:15816 ! D-arginine
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+
+[Term]
+id: CHEBI:15843 ! arachidonic acid
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+
+[Term]
+id: CHEBI:15864 ! luteolin
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:35610 {is_inferred="true"} ! substance with antineoplastic agent application
+is_a: GOCHE:52210 {is_inferred="true"} ! substance with pharmacological biological role
+
+[Term]
+id: CHEBI:15882 ! phenol
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent application
+
+[Term]
+id: CHEBI:15891 ! taurine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33284 {is_inferred="true"} ! substance with nutrient biological role
+is_a: GOCHE:48705 {is_inferred="true"} ! substance with agonist biological role
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:15915 ! ADP-L-glycero-D-manno-heptose
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:15918 ! dCMP
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:15927 ! N-ribosylnicotinamide
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:15930 ! atrazine
+is_a: GOCHE:24527 {is_inferred="true"} ! substance with herbicide application
+is_a: GOCHE:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:15940 ! nicotinic acid

+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHE:27314 {is_inferred="true"} ! substance with water-soluble vitamin biological role
+is_a: GOCHE:35679 {is_inferred="true"} ! substance with antilipemic drug application
+[Term]
+id: CHEBI:15943 ! poly(glycerol phosphate) macromolecule
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+[Term]
+id: CHEBI:15948 ! lycopene
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+[Term]
+id: CHEBI:15956 ! biotin
+is_a: GOCHE:23354 {is_inferred="true"} ! substance with coenzyme biological role
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:27314 {is_inferred="true"} ! substance with water-soluble vitamin biological role
+[Term]
+id: CHEBI:15958 ! phosphatidyl-N-methylethanolamine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+[Term]
+id: CHEBI:15961 ! O-phospho-L-homoserine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+[Term]
+id: CHEBI:15963 ! D-ribitol
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+[Term]
+id: CHEBI:15964 ! cyclohexylsulfamic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+[Term]
+id: CHEBI:15971 ! L-histidine
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:33284 {is_inferred="true"} ! substance with nutrient biological role
+[Term]
+id: CHEBI:15999 ! (4-hydroxyphenyl)pyruvic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+[Term]
+id: CHEBI:16000 ! ethanolamine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+[Term]
+id: CHEBI:16002 ! D-glucaric acid
+is_a: GOCHE:35610 {is_inferred="true"} ! substance with antineoplastic agent application
+[Term]
+id: CHEBI:16007 ! methanethiol
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+[Term]
+id: CHEBI:16015 ! L-glutamic acid
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:25512 {is_inferred="true"} ! substance with neurotransmitter biological role

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+is_a: GOCHE:33284 {is_inferred="true"} ! substance with nutrient biological role
+
+[Term]
+id: CHEBI:16016 ! dihydroxyacetone
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+
+[Term]
+id: CHEBI:16027 ! AMP
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33284 {is_inferred="true"} ! substance with nutrient biological role
+is_a: GOCHE:48705 {is_inferred="true"} ! substance with agonist biological role
+
+[Term]
+id: CHEBI:16037 ! 2-nitropropane
+is_a: GOCHE:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+
+[Term]
+id: CHEBI:16040 ! cytosine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16052 ! propene
+is_a: GOCHE:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHE:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+
+[Term]
+id: CHEBI:16057 ! prenyl diphosphate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16066 ! 11-cis-retinal
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:16077 ! D-glucopyranose 1-phosphate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16082 ! UDP-alpha-D-xylose
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16085 ! UDP-alpha-D-galacturonic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16087 ! isocitrate(3-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16091 ! dolichol
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16094 ! thiosulfate(2-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16104 ! 3-(2-hydroxyphenyl)propanoic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
```

+id: CHEBI:16108 ! dihydroxyacetone phosphate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16109 ! propane-1,3-diol
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHF:37527 {is_inferred="true"} ! substance with acid chemical property
+
+[Term]
+id: CHEBI:16110 ! 1,2-diacyl-sn-glycero-3-phosphocholine(1+)
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16113 ! cholesterol
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16119 ! shikimic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16130 ! DDT
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:24432 {is_inferred="true"} ! substance with biological role
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:16132 ! 2-deoxy-D-ribose 5-phosphate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16134 ! ammonia
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHF:64909 {is_inferred="true"} ! substance with poison biological role
+
+[Term]
+id: CHEBI:16136 ! hydrogen sulfide
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:27026 {is_inferred="true"} ! substance with toxin biological role
+is_a: GOCHF:33280 {is_inferred="true"} ! substance with molecular messenger biological role
+
+[Term]
+id: CHEBI:16137 ! chondroitin D-glucuronate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16148 ! heptadecane
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16150 ! benzoate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16152 ! 1-phosphatidyl-1D-myo-inositol 3,4-bisphosphate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16169 ! homogentisate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

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+ [Term]
+id: CHEBI:16183 ! methane
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+
+ [Term]
+id: CHEBI:16188 ! octan-1-ol
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:16189 ! sulfate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:16192 ! dGMP
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:16196 ! oleic acid
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOCHE:33232 {is_inferred="true"} ! substance with application
+
+ [Term]
+id: CHEBI:16197 ! N-acylsphingosine 1-phosphate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:16199 ! urea
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHE:52211 {is_inferred="true"} ! substance with physiological biological role
+
+ [Term]
+id: CHEBI:16214 ! dolichyl phosphate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:16220 ! coniferin
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:16227 ! pyridine
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+
+ [Term]
+id: CHEBI:16234 ! hydroxide
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:16235 ! guanine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:16236 ! ethanol
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+is_a: GOCHE:35488 {is_inferred="true"} ! substance with central nervous system
depressant application
+is_a: GOCHE:48705 {is_inferred="true"} ! substance with agonist biological role
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+is_a: GOCHE:64909 {is_inferred="true"} ! substance with poison biological role
+
+ [Term]
+id: CHEBI:16238 ! FAD
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+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16240 ! hydrogen peroxide
+is_a: GOCHE:23357 {is_inferred="true"} ! substance with cofactor biological role
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+is_a: GOCHE:52210 {is_inferred="true"} ! substance with pharmacological biological
role
+is_a: GOCHE:64909 {is_inferred="true"} ! substance with poison biological role
+
+[Term]
+id: CHEBI:16243 ! quercetin
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+is_a: GOCHE:35610 {is_inferred="true"} ! substance with antineoplastic agent
application
+is_a: GOCHE:38161 {is_inferred="true"} ! substance with chelator chemical property
+is_a: GOCHE:50114 {is_inferred="true"} ! substance with estrogen hormone role
+
+[Term]
+id: CHEBI:16244 ! 4-(trimethylammonio)butanoate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16261 ! chitosan
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33232 {is_inferred="true"} ! substance with application
+
+[Term]
+id: CHEBI:16264 ! UDP-N-acetyl-alpha-D-glucosamine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16265 ! succinic semialdehyde
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16283 ! L-cystine
+is_a: GOCHE:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHE:52211 {is_inferred="true"} ! substance with physiological biological role
+
+[Term]
+id: CHEBI:16301 ! nitrite
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16325 ! lithocholic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16335 ! adenosine
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:52210 {is_inferred="true"} ! substance with pharmacological biological
role
+
+[Term]
+id: CHEBI:16336 ! hyaluronic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
```

+ [Term]
+id: CHEBI:16337 ! phosphatidic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:16345 ! 3-sulfino-L-alanine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:48705 {is_inferred="true"} ! substance with agonist biological role
+

+ [Term]
+id: CHEBI:16347 ! (R)-carnitine
+is_a: GOCHF:27314 {is_inferred="true"} ! substance with water-soluble vitamin biological role
+is_a: GOCHF:35679 {is_inferred="true"} ! substance with antilipemic drug application
+

+ [Term]
+id: CHEBI:16356 ! 3',5'-cyclic GMP
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:16364 ! pyridine-2,5-diol
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:16374 ! menaquinone
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:16382 ! iodide
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:16388 ! 4-hydroxymandelic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:16389 ! ubiquinones
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:16393 ! sphingosine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:16397 ! formamide
+is_a: GOCHF:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+

+ [Term]
+id: CHEBI:16410 ! pyridoxamine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:38157 {is_inferred="true"} ! substance with iron chelator chemical property
+

+ [Term]
+id: CHEBI:16411 ! indole-3-acetic acid
+is_a: GOCHF:22676 {is_inferred="true"} ! substance with auxin biological role
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:16414 ! L-valine
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:33284 {is_inferred="true"} ! substance with nutrient biological role
+

+ [Term]
+id: CHEBI:16422 ! androst-4-ene-3,17-dione
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role

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+is_a: GOCHE:50113 {is_inferred="true"} ! substance with androgen hormone role
+
+[Term]
+id: CHEBI:16424 ! phenylacetaldehyde
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16436 ! CDP-choline
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:35471 {is_inferred="true"} ! substance with psychotropic drug application
+
+[Term]
+id: CHEBI:16443 ! D-tagatose
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:52211 {is_inferred="true"} ! substance with physiological biological role
+
+[Term]
+id: CHEBI:16449 ! alanine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16450 ! 2'-deoxyuridine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16452 ! oxaloacetate(2-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16454 ! pantothenate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16457 ! S,S-dimethyl-beta-propiothetin
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16464 ! salicyl alcohol
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16467 ! L-arginine
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:33284 {is_inferred="true"} ! substance with nutrient biological role
+
+[Term]
+id: CHEBI:16469 ! 17beta-estradiol
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+
+[Term]
+id: CHEBI:16474 ! NADPH
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16480 ! nitric oxide
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:25512 {is_inferred="true"} ! substance with neurotransmitter biological
role
+is_a: GOCHE:35523 {is_inferred="true"} ! substance with bronchodilator agent
application
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:16482 ! naphthalene
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:35222 {is_inferred="true"} ! substance with inhibitor chemical property
```


+
+[Term]
+id: CHEBI:16493 ! 1-deoxy-D-xylulose 5-phosphate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16494 ! lipoic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16510 ! 3-hydroxypropionate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16521 ! lanosterol
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16522 ! trans-zeatin
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16523 ! D-serine
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:52210 {is_inferred="true"} ! substance with pharmacological biological role
+
+[Term]
+id: CHEBI:16526 ! carbon dioxide
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:38867 {is_inferred="true"} ! substance with anaesthetic application
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+is_a: GOCHE:52210 {is_inferred="true"} ! substance with pharmacological biological role
+is_a: GOCHE:52211 {is_inferred="true"} ! substance with physiological biological role
+
+[Term]
+id: CHEBI:16536 ! orcinol
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16537 ! galactarate(2-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16551 ! alpha,alpha-trehalose
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16556 ! CMP-N-acetyl-beta-neuraminic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16566 ! sphinganine
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16567 ! anthranilate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16583 ! butane-2,3-dione
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]

```
+id: CHEBI:16584 ! isopentenyl diphosphate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:16595 ! 1D-myo-inositol 1,4,5-trisphosphate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16602 ! trichloroethene
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:38867 {is_inferred="true"} ! substance with anaesthetic application
+
+[Term]
+id: CHEBI:16610 ! spermidine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16618 ! 1-phosphatidyl-1D-myo-inositol 3,4,5-trisphosphate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16625 ! methylmalonyl-CoA
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16634 ! raffinose
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16643 ! L-methionine
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:33284 {is_inferred="true"} ! substance with nutrient biological role
+
+[Term]
+id: CHEBI:16666 ! prephenic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16668 ! hypotaurine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16675 ! quinolinic acid
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:52210 {is_inferred="true"} ! substance with pharmacological biological
role
+
+[Term]
+id: CHEBI:16680 ! S-adenosyl-L-homocysteine
+is_a: GOCHE:23357 {is_inferred="true"} ! substance with cofactor biological role
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16684 ! atropine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:35523 {is_inferred="true"} ! substance with bronchodilator agent
application
+is_a: GOCHE:52210 {is_inferred="true"} ! substance with pharmacological biological
role
+
+[Term]
+id: CHEBI:16690 ! guanosine 3'-diphosphate 5'-triphosphate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
```

+
+[Term]
+id: CHEBI:16691 ! dethiobiotin
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16695 ! UMP
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16698 ! cyanamide
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+
+[Term]
+id: CHEBI:16704 ! uridine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16708 ! adenine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16709 ! pyridoxine
+is_a: GOCHF:23357 {is_inferred="true"} ! substance with cofactor biological role
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16714 ! codeine
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+is_a: GOCHF:48705 {is_inferred="true"} ! substance with agonist biological role
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:16716 ! benzene
+is_a: GOCHF:24432 {is_inferred="true"} ! substance with biological role
+is_a: GOCHF:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:16718 ! (S)-reticuline
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+
+[Term]
+id: CHEBI:16724 ! 4-hydroxybutyrate
+is_a: GOCHF:38867 {is_inferred="true"} ! substance with anaesthetic application
+
+[Term]
+id: CHEBI:16732 ! CDP-ethanolamine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16737 ! creatinine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:52217 {is_inferred="true"} ! substance with pharmaceutical application
+
+[Term]
+id: CHEBI:16742 ! orotic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16750 ! guanosine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]

+id: CHEBI:16755 ! chenodeoxycholic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16763 ! 2-oxobutanoate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16768 ! mycothiol
+is_a: GOCHF:23357 {is_inferred="true"} ! substance with cofactor biological role
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:16783 ! 1D-myo-inositol 1,3,4,5-tetrakisphosphate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16794 ! scopolamine
+is_a: GOCHF:35469 {is_inferred="true"} ! substance with antidepressant application
+is_a: GOCHF:52210 {is_inferred="true"} ! substance with pharmacological biological role
+
+[Term]
+id: CHEBI:16796 ! melatonin
+is_a: GOCHF:24621 {is_inferred="true"} ! substance with hormone biological role
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:35623 {is_inferred="true"} ! substance with anticonvulsant application
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:16810 ! 2-oxoglutarate(2-)
+is_a: GOCHF:23357 {is_inferred="true"} ! substance with cofactor biological role
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16811 ! methionine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16813 ! galactitol
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16827 ! corticosterone
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16828 ! L-tryptophan
+is_a: GOCHF:33284 {is_inferred="true"} ! substance with nutrient biological role
+is_a: GOCHF:35469 {is_inferred="true"} ! substance with antidepressant application
+
+[Term]
+id: CHEBI:16830 ! methylamine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16836 ! 4-nitrophenol
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:168396 ! mycophenolic acid
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHF:25442 {is_inferred="true"} ! substance with mycotoxin biological role
+is_a: GOCHF:33281 {is_inferred="true"} ! substance with antimicrobial agent application

```
+is_a: GOCHE:35610 {is_inferred="true"} ! substance with antineoplastic agent
application
+is_a: GOCHE:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+
+[Term]
+id: CHEBI:16842 ! formaldehyde
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+
+[Term]
+id: CHEBI:16848 ! coenzyme gamma-F420-2
+is_a: GOCHE:23354 {is_inferred="true"} ! substance with coenzyme biological role
+
+[Term]
+id: CHEBI:16856 ! glutathione
+is_a: GOCHE:23357 {is_inferred="true"} ! substance with cofactor biological role
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:16857 ! L-threonine
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:33284 {is_inferred="true"} ! substance with nutrient biological role
+
+[Term]
+id: CHEBI:16862 ! nucleoside diphosphate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16865 ! gamma-aminobutyric acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:25512 {is_inferred="true"} ! substance with neurotransmitter biological
role
+
+[Term]
+id: CHEBI:16891 ! glyoxylic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16893 ! sphinganine 1-phosphate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16907 ! 4-nitroquinoline N-oxide
+is_a: GOCHE:24432 {is_inferred="true"} ! substance with biological role
+
+[Term]
+id: CHEBI:16914 ! salicylic acid
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+is_a: GOCHE:37848 {is_inferred="true"} ! substance with phytohormone biological role
+
+[Term]
+id: CHEBI:16918 ! gallate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16919 ! creatine
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
```

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+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16933 ! ergosterol
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16942 ! lipid X
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16947 ! citrate(3-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16953 ! N-acetyl-L-aspartate(2-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:16958 ! beta-alanine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:25512 {is_inferred="true"} ! substance with neurotransmitter biological
role
+is_a: GOCHE:35222 {is_inferred="true"} ! substance with inhibitor chemical property
+is_a: GOCHE:48705 {is_inferred="true"} ! substance with agonist biological role
+
+[Term]
+id: CHEBI:16960 ! ADP-D-ribose
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16961 ! monoacylglycerol phosphate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16962 ! cortisone
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16964 ! 5-hydroxymethyluracil
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16973 ! 11-deoxycorticosterone
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16977 ! L-alanine
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+
+[Term]
+id: CHEBI:16988 ! D-ribose
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16990 ! bilirubin
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16991 ! deoxyribonucleic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:16995 ! oxalic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
```

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+
+[Term]
+id: CHEBI:17000 ! tropate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17012 ! N-acetylneuraminic acid
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+
+[Term]
+id: CHEBI:17013 ! dTMP
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17015 ! riboflavin
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:27314 {is_inferred="true"} ! substance with water-soluble vitamin
biological role
+
+[Term]
+id: CHEBI:17020 ! glucomannan
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+
+[Term]
+id: CHEBI:17026 ! progesterone
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17029 ! chitin
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17032 ! 2-dehydro-3-deoxy-D-gluconic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17053 ! L-aspartic acid
+is_a: GOCHE:25512 {is_inferred="true"} ! substance with neurotransmitter biological
role
+
+[Term]
+id: CHEBI:17057 ! cellobiose
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17069 ! 3-hydroxybenzyl alcohol
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17076 ! streptomycin
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17097 ! biphenyl
+is_a: GOCHE:52211 {is_inferred="true"} ! substance with physiological biological role
+
+[Term]
```

+id: CHEBI:17111 ! 5-O-phosphono-alpha-D-ribofuranosyl diphosphate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17120 ! hexanoate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17126 ! carnitine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17128 ! adipate(2-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17129 ! (S)-scoulerine
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+
+[Term]
+id: CHEBI:17134 ! octopamine
+is_a: GOCHE:25512 {is_inferred="true"} ! substance with neurotransmitter biological role
+
+[Term]
+id: CHEBI:17137 ! hydrogensulfite
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17138 ! glyceraldehyde 3-phosphate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17140 ! D-xylulose
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17148 ! putrescine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:17151 ! xylitol
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHE:52211 {is_inferred="true"} ! substance with physiological biological role
+
+[Term]
+id: CHEBI:17154 ! nicotinamide
+is_a: GOCHE:23357 {is_inferred="true"} ! substance with cofactor biological role
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+
+[Term]
+id: CHEBI:17158 ! methylglyoxal
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17164 ! stachyose
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17168 ! 5alpha-cholest-7-en-3beta-ol
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+


```
+ [Term]
+id: CHEBI:17170 ! dimethylamine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:17172 ! 2'-deoxyguanosine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:17177 ! cinnamyl alcohol
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:17192 ! 3,5-dibromo-4-hydroxybenzotrile
+is_a: GOCHF:24527 {is_inferred="true"} ! substance with herbicide application
+is_a: GOCHF:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+
+ [Term]
+id: CHEBI:17196 ! L-asparagine
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:33284 {is_inferred="true"} ! substance with nutrient biological role
+
+ [Term]
+id: CHEBI:17200 ! UDP-alpha-D-glucuronic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:17202 ! IMP
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:17203 ! L-proline
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:33284 {is_inferred="true"} ! substance with nutrient biological role
+
+ [Term]
+id: CHEBI:17211 ! geranyl diphosphate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:17230 ! homocysteine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:17231 ! m-cresol
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:17234 ! glucose
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:17242 ! dehydroascorbic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:17245 ! carbon monoxide
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:25512 {is_inferred="true"} ! substance with neurotransmitter biological
role
+is_a: GOCHF:52214 {is_inferred="true"} ! substance with ligand chemical property
+is_a: GOCHF:64909 {is_inferred="true"} ! substance with poison biological role
+
```

+ [Term]
+id: CHEBI:17252 ! 17alpha-hydroxyprogesterone
+is_a: GOCHF:24621 {is_inferred="true"} ! substance with hormone biological role
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:17256 ! 2'-deoxyadenosine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:17263 ! estrone
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:35610 {is_inferred="true"} ! substance with antineoplastic agent application
+is_a: GOCHF:50114 {is_inferred="true"} ! substance with estrogen hormone role
+

+ [Term]
+id: CHEBI:17268 ! myo-inositol
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:33284 {is_inferred="true"} ! substance with nutrient biological role
+

+ [Term]
+id: CHEBI:17270 ! glycerol 2-phosphate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:17272 ! propionate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:17287 ! N-phosphocreatine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:17295 ! L-phenylalanine
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHF:33284 {is_inferred="true"} ! substance with nutrient biological role
+

+ [Term]
+id: CHEBI:17300 ! tetrachloroethene
+is_a: GOCHF:24432 {is_inferred="true"} ! substance with biological role
+

+ [Term]
+id: CHEBI:17301 ! glucaric acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:17303 ! morphine
+is_a: GOCHF:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+is_a: GOCHF:38867 {is_inferred="true"} ! substance with anaesthetic application
+is_a: GOCHF:48705 {is_inferred="true"} ! substance with agonist biological role
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+

+ [Term]
+id: CHEBI:17306 ! maltose
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHF:52211 {is_inferred="true"} ! substance with physiological biological role
+

+ [Term]
+id: CHEBI:17309 ! pectin
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role

```

+is_a: GOCHE:52211 {is_inferred="true"} ! substance with physiological biological role
+is_a: GOCHE:63046 {is_inferred="true"} ! substance with emulsifier chemical property
+
+[Term]
+id: CHEBI:17310 ! pyridoxal
+is_a: GOCHE:23357 {is_inferred="true"} ! substance with cofactor biological role
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17315 ! D-glucosamine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17326 ! nucleoside triphosphate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17327 ! phytol
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17333 ! chorismic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17345 ! GMP
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33232 {is_inferred="true"} ! substance with application
+
+[Term]
+id: CHEBI:17347 ! testosterone
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:50113 {is_inferred="true"} ! substance with androgen hormone role
+
+[Term]
+id: CHEBI:17351 ! linoleic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17361 ! CMP
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17368 ! hypoxanthine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17376 ! cystine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17399 ! L-xylulose
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17401 ! myo-inositol hexakisphosphate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33280 {is_inferred="true"} ! substance with molecular messenger biological
role
+is_a: GOCHE:35610 {is_inferred="true"} ! substance with antineoplastic agent
application
+is_a: GOCHE:38157 {is_inferred="true"} ! substance with iron chelator chemical
property
+
+[Term]
+id: CHEBI:17418 ! valeric acid

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+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17431 ! agmatine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17437 ! dimethyl sulfide
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17445 ! 3-hydroxyphenylacetic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17447 ! geraniol
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33232 {is_inferred="true"} ! substance with application
+
+[Term]
+id: CHEBI:17453 ! methylmalonate(2-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17460 ! lipoamide
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17489 ! 3',5'-cyclic AMP
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17497 ! glycolic acid
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17514 ! cyanide
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+
+[Term]
+id: CHEBI:17517 ! phosphatidylglycerol
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17536 ! allantoin
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17544 ! hydrogencarbonate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17548 ! alginic acid
+is_a: GOCHE:50248 {is_inferred="true"} ! substance with hematologic agent application
+
+[Term]
+id: CHEBI:17553 ! O-phosphoethanolamine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17558 ! quercitrin
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical

```

property
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+
+[Term]
+id: CHEBI:17561 ! L-cysteine
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOCHE:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHE:52211 {is_inferred="true"} ! substance with physiological biological role
+
+[Term]
+id: CHEBI:17562 ! cytidine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17563 ! phthalate(2-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17568 ! uracil
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17578 ! toluene
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+is_a: GOCHE:52210 {is_inferred="true"} ! substance with pharmacological biological
role
+is_a: GOCHE:64909 {is_inferred="true"} ! substance with poison biological role
+
+[Term]
+id: CHEBI:17579 ! beta-carotene
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+is_a: GOCHE:52208 {is_inferred="true"} ! substance with biophysical biological role
+
+[Term]
+id: CHEBI:17590 ! octane
+is_a: GOCHE:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+
+[Term]
+id: CHEBI:175901 ! gemcitabine
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+is_a: GOCHE:35221 {is_inferred="true"} ! substance with antimetabolite biological role
+is_a: GOCHE:35610 {is_inferred="true"} ! substance with antineoplastic agent
application
+is_a: GOCHE:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+
+[Term]
+id: CHEBI:17594 ! hydroquinone
+is_a: GOCHE:23357 {is_inferred="true"} ! substance with cofactor biological role
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:17596 ! inosine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17600 ! hexadecanal

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```
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17602 ! 4-aminophenol
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17620 ! ferulic acid
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:35222 {is_inferred="true"} ! substance with inhibitor chemical property
+
+[Term]
+id: CHEBI:17621 ! FMN
+is_a: GOCHE:23354 {is_inferred="true"} ! substance with coenzyme biological role
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17622 ! dUMP
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17630 ! kanamycin A
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17633 ! guanosine 3',5'-bis(diphosphate)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17642 ! pentachlorophenol
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17650 ! cortisol
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17660 ! N(6)-dimethylallyl adenine
+is_a: GOCHE:23530 {is_inferred="true"} ! substance with cytokinin biological role
+
+[Term]
+id: CHEBI:17672 ! carbamoyl phosphate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17688 ! (S)-nicotine
+is_a: GOCHE:24852 {is_inferred="true"} ! substance with insecticide application
+is_a: GOCHE:35473 {is_inferred="true"} ! substance with tranquilizing drug application
+is_a: GOCHE:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+is_a: GOCHE:52210 {is_inferred="true"} ! substance with pharmacological biological
role
+is_a: GOCHE:64909 {is_inferred="true"} ! substance with poison biological role
+
+[Term]
+id: CHEBI:17694 ! dihydrolipoamide
+is_a: GOCHE:23357 {is_inferred="true"} ! substance with cofactor biological role
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17696 ! isocyanuric acid
+is_a: GOCHE:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+
+[Term]
+id: CHEBI:17698 ! chloramphenicol
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
```

+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent application
+
+[Term]
+id: CHEBI:17700 ! undecan-2-one
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:25944 {is_inferred="true"} ! substance with pesticide application
+
+[Term]
+id: CHEBI:17709 ! 5'-adenylyl sulfate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17713 ! dAMP
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17716 ! lactose
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17721 ! (S,S,S)-nicotianamine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:35457 {is_inferred="true"} ! substance with peptidyl-dipeptidase A inhibitor application
+
+[Term]
+id: CHEBI:17728 ! S-methyl-L-methionine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17737 ! desmosterol
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17745 ! coniferol
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17748 ! thymidine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17750 ! glycine betaine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17754 ! glycerol
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHE:35195 {is_inferred="true"} ! substance with surfactant chemical property
+
+[Term]
+id: CHEBI:17755 ! cystathionine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17767 ! D-mannonate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:17774 ! pimelate(1-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+

```
+ [Term]
+id: CHEBI:17781 ! lumichrome
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:17790 ! methanol
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHF:37527 {is_inferred="true"} ! substance with acid chemical property
+
+ [Term]
+id: CHEBI:17796 ! L-idonate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:17803 ! dehydro-D-arabinono-1,4-lactone
+is_a: GOCHF:23357 {is_inferred="true"} ! substance with cofactor biological role
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+
+ [Term]
+id: CHEBI:17814 ! salicin
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:52210 {is_inferred="true"} ! substance with pharmacological biological
role
+
+ [Term]
+id: CHEBI:17821 ! thymine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:17822 ! serine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:17823 ! calcitriol
+is_a: GOCHF:24621 {is_inferred="true"} ! substance with hormone biological role
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:35610 {is_inferred="true"} ! substance with antineoplastic agent
application
+is_a: GOCHF:38632 {is_inferred="true"} ! substance with membrane transport modulator
biological role
+
+ [Term]
+id: CHEBI:17824 ! propan-2-ol
+is_a: GOCHF:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHF:37527 {is_inferred="true"} ! substance with acid chemical property
+
+ [Term]
+id: CHEBI:17836 ! 4-aminobenzoate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:17843 ! transfer RNA
+is_a: SO:0000655 {is_inferred="true"} ! ncRNA
+
+ [Term]
+id: CHEBI:17847 ! p-cresol
+is_a: GOCHF:27026 {is_inferred="true"} ! substance with toxin biological role
+
+ [Term]
+id: CHEBI:17859 ! glutaric acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
```



```
+ [Term]
+id: CHEBI:17877 ! FADH2
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:17883 ! hydrogen chloride
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:17895 ! L-tyrosine
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOCHF:33284 {is_inferred="true"} ! substance with nutrient biological role
+
+ [Term]
+id: CHEBI:17898 ! all-trans-retinal
+is_a: GOCHF:35222 {is_inferred="true"} ! substance with inhibitor chemical property
+
+ [Term]
+id: CHEBI:17905 ! coenzyme M
+is_a: GOCHF:23354 {is_inferred="true"} ! substance with coenzyme biological role
+
+ [Term]
+id: CHEBI:17929 ! N(omega),N(omega)-dimethyl-L-arginine
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+
+ [Term]
+id: CHEBI:17933 ! calcidiol
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:17939 ! puromycin
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOCHF:35610 {is_inferred="true"} ! substance with antineoplastic agent
application
+
+ [Term]
+id: CHEBI:17950 ! beta-D-galactosyl-(1->4)-beta-D-glucosyl-(1<->1)-N-acylsphingosine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:17962 ! CDP-diacylglycerol
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:17968 ! butyrate
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:17980 ! 3'-phospho-5'-adenylyl sulfate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:17984 ! acyl-CoA
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+
+ [Term]
+id: CHEBI:17985 ! adenosine 3',5'-bimonophosphate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
```

```
+id: CHEBI:17987 ! benzyl alcohol
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:17992 ! sucrose
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHF:52211 {is_inferred="true"} ! substance with physiological biological role
+
+[Term]
+id: CHEBI:17996 ! chloride
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:18002 ! (-)-secologanin
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:18005 ! keto-phenylpyruvate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:33232 {is_inferred="true"} ! substance with application
+
+[Term]
+id: CHEBI:18009 ! NADP(+)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:18012 ! fumaric acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHF:52211 {is_inferred="true"} ! substance with physiological biological role
+
+[Term]
+id: CHEBI:18019 ! L-lysine
+is_a: GOCHF:33284 {is_inferred="true"} ! substance with nutrient biological role
+is_a: GOCHF:35623 {is_inferred="true"} ! substance with anticonvulsant application
+
+[Term]
+id: CHEBI:18021 ! phosphoenolpyruvate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:18022 ! thiocyanate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:18035 ! diglyceride
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:18050 ! L-glutamine
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOCHF:33284 {is_inferred="true"} ! substance with nutrient biological role
+
+[Term]
+id: CHEBI:18053 ! l-aminocyclopropanecarboxylic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:26155 {is_inferred="true"} ! substance with plant growth regulator
biological role
+
+[Term]
+id: CHEBI:18067 ! phylloquinone
+is_a: GOCHF:23357 {is_inferred="true"} ! substance with cofactor biological role
```

```
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33229 {is_inferred="true"} ! substance with vitamin biological role
+
+[Term]
+id: CHEBI:18070 ! cytochrome c
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:18099 ! cyclohexanol
+is_a: GOCHE:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:18101 ! 4-hydroxyphenylacetic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:18107 ! xanthosine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:18111 ! ribosomal RNA
+is_a: SO:0000655 {is_inferred="true"} ! ncRNA
+
+[Term]
+id: CHEBI:18123 ! N-methylnicotinate
+is_a: GOCHE:52211 {is_inferred="true"} ! substance with physiological biological role
+
+[Term]
+id: CHEBI:18127 ! cadaverine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:18135 ! catechol
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:18136 ! 3-(2,3-dihydroxyphenyl)propanoic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:18139 ! trimethylamine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:18153 ! ethene
+is_a: GOCHE:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHE:37848 {is_inferred="true"} ! substance with phytohormone biological role
+
+[Term]
+id: CHEBI:18157 ! aerobactin
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:26672 {is_inferred="true"} ! substance with siderophore chemical property
+
+[Term]
+id: CHEBI:18186 ! tyrosine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:18208 ! benzylpenicillin
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+
+[Term]
+id: CHEBI:18211 ! citrulline
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
```

+id: CHEBI:18216 ! alpha-N-acetylneuraminosyl-(2->3)-[beta-D-galactosyl-(1->3)-N-acetyl-beta-D-galactosaminyl-(1->4)]-beta-D-galactosyl-(1->4)-beta-D-glucosyl-(1<->1')--N-acylsphingosine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+[Term]

+id: CHEBI:18222 ! xylose
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+[Term]

+id: CHEBI:18228 ! 1D-myo-inositol 1,3,4-trisphosphate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+[Term]

+id: CHEBI:18231 ! arsenic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+[Term]

+id: CHEBI:18237 ! glutamic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+[Term]

+id: CHEBI:18243 ! dopamine
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:52210 {is_inferred="true"} ! substance with pharmacological biological role
+[Term]

+id: CHEBI:18248 ! iron atom
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:33284 {is_inferred="true"} ! substance with nutrient biological role
+[Term]

+id: CHEBI:18250 ! chondroitin 4'-sulfate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+[Term]

+id: CHEBI:18252 ! zymosterol
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+[Term]

+id: CHEBI:18257 ! ornithine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+[Term]

+id: CHEBI:18258 ! 3,3',5-triiodo-L-thyronine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:60311 {is_inferred="true"} ! substance with thyroid hormone biological role
+[Term]

+id: CHEBI:18261 ! N-carbamoyl-beta-alanine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+[Term]

+id: CHEBI:18262 ! dodecanoate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+[Term]

+id: CHEBI:18276 ! dihydrogen
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+is_a: GOCHF:52211 {is_inferred="true"} ! substance with physiological biological role
+[Term]

```
+id: CHEBI:18283 ! alpha,alpha-trehalose 6-phosphate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:18287 ! L-fucose
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:18291 ! manganese atom
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33284 {is_inferred="true"} ! substance with nutrient biological role
+
+[Term]
+id: CHEBI:18292 ! jasmonic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:37848 {is_inferred="true"} ! substance with phytohormone biological role
+
+[Term]
+id: CHEBI:18295 ! histamine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:25512 {is_inferred="true"} ! substance with neurotransmitter biological
role
+
+[Term]
+id: CHEBI:18300 ! maleic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:18303 ! phosphatidyl-L-serine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:18304 ! deamido-NAD(+)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:18305 ! hydroquinone O-beta-D-glucopyranoside
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:18307 ! UDP-D-galactose
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:18308 ! acrylic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:18315 ! pyrroloquinoline quinone
+is_a: GOCHE:27314 {is_inferred="true"} ! substance with water-soluble vitamin
biological role
+
+[Term]
+id: CHEBI:18320 ! 1,4-dithiothreitol
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:38161 {is_inferred="true"} ! substance with chelator chemical property
+
+[Term]
+id: CHEBI:18332 ! L-thyroxine
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:60311 {is_inferred="true"} ! substance with thyroid hormone biological
role
+
+[Term]
+id: CHEBI:18344 ! kynurenic acid
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
```

```
+is_a: GOCHE:48705 {is_inferred="true"} ! substance with agonist biological role
+
+[Term]
+id: CHEBI:18346 ! vanillin
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:35623 {is_inferred="true"} ! substance with anticonvulsant application
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+is_a: GOCHE:52211 {is_inferred="true"} ! substance with physiological biological role
+
+[Term]
+id: CHEBI:18348 ! 1-phosphatidyl-1D-myo-inositol 4,5-bisphosphate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:18372 ! 7,8-dihydroneopterin 3'-triphosphate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:18376 ! dermatan sulfate
+is_a: GOCHE:50249 {is_inferred="true"} ! substance with anticoagulant application
+
+[Term]
+id: CHEBI:18385 ! thiamine(1+)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:18391 ! D-gluconate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:18401 ! phenylacetate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:18405 ! pyridoxal 5'-phosphate
+is_a: GOCHE:23354 {is_inferred="true"} ! substance with coenzyme biological role
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:18407 ! hydrogen cyanide
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:64909 {is_inferred="true"} ! substance with poison biological role
+
+[Term]
+id: CHEBI:18419 ! lactaldehyde
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:18421 ! superoxide
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:18422 ! sulfur dioxide
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHE:52211 {is_inferred="true"} ! substance with physiological biological role
+
+[Term]
+id: CHEBI:18723 ! nicotine
+is_a: GOCHE:35473 {is_inferred="true"} ! substance with tranquilizing drug application
+is_a: GOCHE:52210 {is_inferred="true"} ! substance with pharmacological biological
role
+is_a: GOCHE:64909 {is_inferred="true"} ! substance with poison biological role
+
+[Term]
```

+id: CHEBI:18917 ! 1,3-dichloropropan-2-ol
+is_a: GOCHE:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHE:37527 {is_inferred="true"} ! substance with acid chemical property
+
+[Term]
+id: CHEBI:18918 ! 1,3-dichloropropene
+is_a: GOCHE:25944 {is_inferred="true"} ! substance with pesticide application
+
+[Term]
+id: CHEBI:19062 ! 1-methylguanosine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:1941 ! 4-(trimethylammonio)butanoic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:19503 ! propachlor
+is_a: GOCHE:24527 {is_inferred="true"} ! substance with herbicide application
+is_a: GOCHE:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:19702 ! N(2)-methylguanosine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:20067 ! 3-hydroxybutyric acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:20140 ! 3-methylquinoline
+is_a: GOCHE:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+
+[Term]
+id: CHEBI:203600 ! 1D-myo-inositol 1,4,5-trisphosphate(6-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:20392 ! 4-hydroxyproline
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:20794 ! 7-methylguanosine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:21054 ! mannonic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:21168 ! GDP-mannose
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:21336 ! L-idonic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:21397 ! L-altrarate(1-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:21398 ! L-altraric acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]

+id: CHEBI:21437 ! Mo-molybdopterin cofactor
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:21547 ! N-acetyl-L-aspartic acid
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:22152 ! 2-cis-abscisic acid
+is_a: GOCHF:48705 {is_inferred="true"} ! substance with agonist biological role
+
+[Term]
+id: CHEBI:22271 ! aflatoxin
+is_a: GOCHF:25442 {is_inferred="true"} ! substance with mycotoxin biological role
+
+[Term]
+id: CHEBI:22315 ! alkaloid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:22319 ! alkanesulfinate
+is_a: GOCHF:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+
+[Term]
+id: CHEBI:225237 ! 2-phenylethanaminium
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:22584 ! antimycin A
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHF:33281 {is_inferred="true"} ! substance with antimicrobial agent application
+
+[Term]
+id: CHEBI:22599 ! arabinose
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:22605 ! arabinitol
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:22651 ! ascorbate
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:22653 ! asparagine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:22660 ! aspartic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:22720 ! benzodiazepine
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:38632 {is_inferred="true"} ! substance with membrane transport modulator biological role
+is_a: GOCHF:52210 {is_inferred="true"} ! substance with pharmacological biological role
+
+[Term]
+id: CHEBI:22905 ! blasticidin
+is_a: GOCHF:33281 {is_inferred="true"} ! substance with antimicrobial agent application

+
+[Term]
+id: CHEBI:22927 ! bromine atom
+is_a: GOCHF:33284 {is_inferred="true"} ! substance with nutrient biological role
+
+[Term]
+id: CHEBI:22976 ! cadinene
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:22984 ! calcium atom
+is_a: GOCHF:33284 {is_inferred="true"} ! substance with nutrient biological role
+
+[Term]
+id: CHEBI:23007 ! carbohydrate-containing antibiotic
+is_a: GOCHF:33281 {is_inferred="true"} ! substance with antimicrobial agent application
+
+[Term]
+id: CHEBI:23066 ! cephalosporin
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+
+[Term]
+id: CHEBI:23089 ! chelate-forming peptide
+is_a: GOCHF:38161 {is_inferred="true"} ! substance with chelator chemical property
+
+[Term]
+id: CHEBI:23116 ! chlorine atom
+is_a: GOCHF:33284 {is_inferred="true"} ! substance with nutrient biological role
+
+[Term]
+id: CHEBI:23243 ! cineole
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:23436 ! cyanogenic glycoside
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:23527 ! cytochalasin B
+is_a: GOCHF:25442 {is_inferred="true"} ! substance with mycotoxin biological role
+is_a: GOCHF:50427 {is_inferred="true"} ! substance with platelet aggregation inhibitor application
+
+[Term]
+id: CHEBI:2365 ! (+)-abscisic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:37848 {is_inferred="true"} ! substance with phytohormone biological role
+
+[Term]
+id: CHEBI:23671 ! 2,6-diaminopimelate(2-)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:23673 ! 2,6-diaminopimelic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:23681 ! dibenzothiophene
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+
+[Term]
+id: CHEBI:237958 ! ({[(2R,3S,4R,5R)-3,4-dihydroxy-5-(9H-purin-9-yl)oxolan-2-yl]methyl phosphonato}oxy)(phosphonatooxy)phosphinate
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+
+[Term]

+id: CHEBI:23825 ! dibenzodioxine
+is_a: GOCHF:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+
+[Term]
+id: CHEBI:23872 ! dodecyl sulfate
+is_a: GOCHF:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+
+[Term]
+id: CHEBI:23897 ! ecdysteroid
+is_a: GOCHF:24621 {is_inferred="true"} ! substance with hormone biological role
+
+[Term]
+id: CHEBI:23955 ! erythronolide
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:23965 ! estradiol
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:50114 {is_inferred="true"} ! substance with estrogen hormone role
+
+[Term]
+id: CHEBI:24040 ! flavin adenine dinucleotide
+is_a: GOCHF:23357 {is_inferred="true"} ! substance with cofactor biological role
+
+[Term]
+id: CHEBI:24041 ! flavin mononucleotide
+is_a: GOCHF:23357 {is_inferred="true"} ! substance with cofactor biological role
+
+[Term]
+id: CHEBI:24061 ! fluorine atom
+is_a: GOCHF:33284 {is_inferred="true"} ! substance with nutrient biological role
+
+[Term]
+id: CHEBI:24108 ! fructosylglycine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:24109 ! fructosyllsine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:24149 ! galactonic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:24229 ! geranylgeraniol
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+
+[Term]
+id: CHEBI:24250 ! gibberellin
+is_a: GOCHF:37848 {is_inferred="true"} ! substance with phytohormone biological role
+
+[Term]
+id: CHEBI:24279 ! glucosinolate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:24298 ! glucuronic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:24432 ! biological role
+is_a: BFO:0000023 {is_inferred="true"} ! role
+

+ [Term]
+id: CHEBI:2448 ! actinorhodin
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:24531 ! heterocyclic antibiotic
+is_a: GOCHF:33281 {is_inferred="true"} ! substance with antimicrobial agent application
+

+ [Term]
+id: CHEBI:246422 ! dUMP(2-)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:24757 ! hypochlorous acid
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:24797 ! indole phytoalexin
+is_a: GOCHF:26115 {is_inferred="true"} ! substance with phytoalexin biological role
+

+ [Term]
+id: CHEBI:24814 ! indole-3-methanol
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:35610 {is_inferred="true"} ! substance with antineoplastic agent application
+

+ [Term]
+id: CHEBI:24833 ! oxoacid
+is_a: GOCHF:37527 {is_inferred="true"} ! substance with acid chemical property
+

+ [Term]
+id: CHEBI:24859 ! iodine atom
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:33284 {is_inferred="true"} ! substance with nutrient biological role
+

+ [Term]
+id: CHEBI:24898 ! isoleucine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:24943 ! juvenile hormone
+is_a: GOCHF:24621 {is_inferred="true"} ! substance with hormone biological role
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:24996 ! lactate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:25017 ! leucine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:25048 ! linolenic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:25094 ! lysine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:25105 ! macrolide antibiotic
+is_a: GOCHF:33281 {is_inferred="true"} ! substance with antimicrobial agent application

+
+[Term]
+id: CHEBI:25107 ! magnesium atom
+is_a: GOCHF:33284 {is_inferred="true"} ! substance with nutrient biological role
+
+[Term]
+id: CHEBI:25179 ! melanins
+is_a: GOCHF:52208 {is_inferred="true"} ! substance with biophysical biological role
+
+[Term]
+id: CHEBI:25187 ! p-menthan-3-ol
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:25214 ! metal-sulfur cluster
+is_a: GOCHF:23357 {is_inferred="true"} ! substance with cofactor biological role
+
+[Term]
+id: CHEBI:25255 ! methyl methanesulfonate
+is_a: GOCHF:52206 {is_inferred="true"} ! substance with biochemical biological role
+
+[Term]
+id: CHEBI:25351 ! mevalonic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:25357 ! mitomycin
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:25372 ! molybdopterin cofactor
+is_a: GOCHF:23357 {is_inferred="true"} ! substance with cofactor biological role
+
+[Term]
+id: CHEBI:25375 ! monoamine molecular messenger
+is_a: GOCHF:33280 {is_inferred="true"} ! substance with molecular messenger biological role
+
+[Term]
+id: CHEBI:25427 ! mugineic acids
+is_a: GOCHF:24028 {is_inferred="true"} ! substance with iron(3+) chelator role
+is_a: GOCHF:24874 {is_inferred="true"} ! substance with iron ionophore biological role
+
+[Term]
+id: CHEBI:25524 ! NAD(P)
+is_a: GOCHF:23354 {is_inferred="true"} ! substance with coenzyme biological role
+
+[Term]
+id: CHEBI:25555 ! nitrogen atom
+is_a: GOCHF:33284 {is_inferred="true"} ! substance with nutrient biological role
+
+[Term]
+id: CHEBI:25614 ! nylons
+is_a: GOCHF:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+
+[Term]
+id: CHEBI:25626 ! octadecadienoate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:25629 ! octadecanoate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:25646 ! octanoate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:25681 ! omega-3 fatty acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:25692 ! ommochrome
+is_a: GOCHF:52208 {is_inferred="true"} ! substance with biophysical biological role
+

+ [Term]
+id: CHEBI:25705 ! organochlorine insecticide
+is_a: GOCHF:24852 {is_inferred="true"} ! substance with insecticide application
+

+ [Term]
+id: CHEBI:25711 ! organophosphorus insecticide
+is_a: GOCHF:24852 {is_inferred="true"} ! substance with insecticide application
+

+ [Term]
+id: CHEBI:25805 ! oxygen atom
+is_a: GOCHF:33284 {is_inferred="true"} ! substance with nutrient biological role
+

+ [Term]
+id: CHEBI:25812 ! ozone
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+is_a: GOCHF:37527 {is_inferred="true"} ! substance with acid chemical property
+

+ [Term]
+id: CHEBI:25822 ! p-cumate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:25848 ! pantothenic acids
+is_a: GOCHF:23357 {is_inferred="true"} ! substance with cofactor biological role
+is_a: GOCHF:27314 {is_inferred="true"} ! substance with water-soluble vitamin
biological role
+

+ [Term]
+id: CHEBI:25863 ! pelargonidin
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:25879 ! pentaerythritol tetranitrate
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+

+ [Term]
+id: CHEBI:25903 ! peptide antibiotic
+is_a: GOCHF:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+

+ [Term]
+id: CHEBI:25905 ! peptide hormone
+is_a: GOCHF:24621 {is_inferred="true"} ! substance with hormone biological role
+

+ [Term]
+id: CHEBI:25961 ! phenanthrenes
+is_a: GOCHF:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+

+ [Term]
+id: CHEBI:26078 ! phosphoric acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:33232 {is_inferred="true"} ! substance with application
+

+ [Term]
+id: CHEBI:26116 ! phytochromobilin
+is_a: GOCHF:23357 {is_inferred="true"} ! substance with cofactor biological role

+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:26174 ! poly(N-acetyllactosamine)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:52214 {is_inferred="true"} ! substance with ligand chemical property
+
+[Term]
+id: CHEBI:26177 ! polyene antibiotic
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent application
+
+[Term]
+id: CHEBI:26214 ! porphyrins
+is_a: GOCHE:23357 {is_inferred="true"} ! substance with cofactor biological role
+
+[Term]
+id: CHEBI:26216 ! potassium atom
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33284 {is_inferred="true"} ! substance with nutrient biological role
+
+[Term]
+id: CHEBI:26271 ! proline
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:2639 ! amiloride
+is_a: GOCHE:35498 {is_inferred="true"} ! substance with diuretic application
+is_a: GOCHE:38632 {is_inferred="true"} ! substance with membrane transport modulator biological role
+
+[Term]
+id: CHEBI:26404 ! puromycins
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent application
+
+[Term]
+id: CHEBI:26461 ! pyrroloquinoline cofactor
+is_a: GOCHE:23357 {is_inferred="true"} ! substance with cofactor biological role
+
+[Term]
+id: CHEBI:26493 ! quinic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:26536 ! retinoic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:26546 ! rhamnose
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:26605 ! saponin
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:26708 ! sodium atom
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:26759 ! sterigmatocystins
+is_a: GOCHE:25442 {is_inferred="true"} ! substance with mycotoxin biological role
+
+[Term]
+id: CHEBI:26764 ! steroid hormone
+is_a: GOCHE:24621 {is_inferred="true"} ! substance with hormone biological role

+
+[Term]
+id: CHEBI:2679 ! amphetamine
+is_a: GOCHE:35523 {is_inferred="true"} ! substance with bronchodilator agent application
+is_a: GOCHE:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+is_a: GOCHE:52210 {is_inferred="true"} ! substance with pharmacological biological role
+is_a: GOCHE:64909 {is_inferred="true"} ! substance with poison biological role
+
+[Term]
+id: CHEBI:26831 ! N,N'-sulfonyldiurea
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHE:24527 {is_inferred="true"} ! substance with herbicide application
+
+[Term]
+id: CHEBI:26833 ! sulfur atom
+is_a: GOCHE:33284 {is_inferred="true"} ! substance with nutrient biological role
+
+[Term]
+id: CHEBI:26848 ! tannin
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+
+[Term]
+id: CHEBI:26895 ! tetracyclines
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:26911 ! oxolane
+is_a: GOCHE:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:26948 ! thiamine
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:27314 {is_inferred="true"} ! substance with water-soluble vitamin biological role
+
+[Term]
+id: CHEBI:27007 ! tin atom
+is_a: GOCHE:33284 {is_inferred="true"} ! substance with nutrient biological role
+
+[Term]
+id: CHEBI:27226 ! uric acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:27266 ! valine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:27300 ! vitamin D
+is_a: GOCHE:24020 {is_inferred="true"} ! substance with fat-soluble vitamin biological role
+
+[Term]
+id: CHEBI:27306 ! vitamin B6
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:27314 {is_inferred="true"} ! substance with water-soluble vitamin biological role
+
+[Term]
+id: CHEBI:27354 ! xylulose 5-phosphate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:27363 ! zinc atom
+is_a: GOCHF:33284 {is_inferred="true"} ! substance with nutrient biological role
+

+ [Term]
+id: CHEBI:27376 ! methanesulfonic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:27380 ! (1->6)-beta-D-glucan
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:27385 ! tetrachloromethane
+is_a: GOCHF:24432 {is_inferred="true"} ! substance with biological role
+is_a: GOCHF:33232 {is_inferred="true"} ! substance with application
+

+ [Term]
+id: CHEBI:27386 ! cinnamic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:27405 ! streptidine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:27432 ! alpha-linolenic acid
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:33284 {is_inferred="true"} ! substance with nutrient biological role
+

+ [Term]
+id: CHEBI:27445 ! maltohexaose
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:27452 ! styrene
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:27470 ! folic acid
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:27314 {is_inferred="true"} ! substance with water-soluble vitamin biological role
+

+ [Term]
+id: CHEBI:27504 ! mitomycin C
+is_a: GOCHF:35610 {is_inferred="true"} ! substance with antineoplastic agent application
+

+ [Term]
+id: CHEBI:27547 ! zeaxanthin
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+

+ [Term]
+id: CHEBI:27551 ! 5-methylcytosine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:27560 ! boron atom
+is_a: GOCHF:33284 {is_inferred="true"} ! substance with nutrient biological role
+

+ [Term]
+id: CHEBI:27561 ! oxirane
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+


```
+ [Term]
+id: CHEBI:27563 ! arsenic atom
+is_a: GOCHF:33284 {is_inferred="true"} ! substance with nutrient biological role
+
+ [Term]
+id: CHEBI:27568 ! selenium atom
+is_a: GOCHF:33284 {is_inferred="true"} ! substance with nutrient biological role
+
+ [Term]
+id: CHEBI:27570 ! histidine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:27584 ! aldosterone
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:27592 ! ectoine
+is_a: GOCHF:24432 {is_inferred="true"} ! substance with biological role
+
+ [Term]
+id: CHEBI:27594 ! carbon atom
+is_a: GOCHF:33284 {is_inferred="true"} ! substance with nutrient biological role
+
+ [Term]
+id: CHEBI:27617 ! monensin A
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:24869 {is_inferred="true"} ! substance with ionophore biological role
+
+ [Term]
+id: CHEBI:27638 ! cobalt atom
+is_a: GOCHF:33284 {is_inferred="true"} ! substance with nutrient biological role
+
+ [Term]
+id: CHEBI:27641 ! cycloheximide
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:27642 ! methyl tert-butyl ether
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+
+ [Term]
+id: CHEBI:27656 ! camptothecin
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOCHF:35610 {is_inferred="true"} ! substance with antineoplastic agent
application
+
+ [Term]
+id: CHEBI:27698 ! vanadium atom
+is_a: GOCHF:33284 {is_inferred="true"} ! substance with nutrient biological role
+
+ [Term]
+id: CHEBI:27701 ! oxytetracycline
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOCHF:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+
+ [Term]
+id: CHEBI:27732 ! caffeine
```

+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHE:35471 {is_inferred="true"} ! substance with psychotropic drug application
+is_a: GOCHE:35498 {is_inferred="true"} ! substance with diuretic application
+is_a: GOCHE:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+is_a: GOCHE:38632 {is_inferred="true"} ! substance with membrane transport modulator biological role
+is_a: GOCHE:52210 {is_inferred="true"} ! substance with pharmacological biological role
+is_a: GOCHE:52211 {is_inferred="true"} ! substance with physiological biological role
+[Term]
+id: CHEBI:27744 ! glyphosate
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHE:24527 {is_inferred="true"} ! substance with herbicide application
+[Term]
+id: CHEBI:27748 ! D-ribosylnicotinic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+[Term]
+id: CHEBI:27750 ! ethyl acetate
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33232 {is_inferred="true"} ! substance with application
+[Term]
+id: CHEBI:27789 ! 1,2-dichloroethane
+is_a: GOCHE:24432 {is_inferred="true"} ! substance with biological role
+is_a: GOCHE:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+[Term]
+id: CHEBI:27810 ! resorcinol
+is_a: GOCHE:35222 {is_inferred="true"} ! substance with inhibitor chemical property
+[Term]
+id: CHEBI:27822 ! 2-aminobenzimidazole
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+[Term]
+id: CHEBI:27843 ! cyanidin cation
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+[Term]
+id: CHEBI:27881 ! resveratrol
+is_a: GOCHE:26115 {is_inferred="true"} ! substance with phytoalexin biological role
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+[Term]
+id: CHEBI:27891 ! S-sulfo-L-cysteine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+[Term]
+id: CHEBI:27897 ! tryptophan
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+[Term]
+id: CHEBI:27899 ! cisplatin
+is_a: GOCHE:35610 {is_inferred="true"} ! substance with antineoplastic agent application
+is_a: GOCHE:64909 {is_inferred="true"} ! substance with poison biological role

```
+ [Term]
+id: CHEBI:27902 ! tetracycline
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+
+ [Term]
+id: CHEBI:27903 ! (2,4,5-trichlorophenoxy)acetic acid
+is_a: GOCHE:22676 {is_inferred="true"} ! substance with auxin biological role
+is_a: GOCHE:24527 {is_inferred="true"} ! substance with herbicide application
+is_a: GOCHE:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+
+ [Term]
+id: CHEBI:27922 ! sorbose
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:27928 ! parathion
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:27958 ! cocaine
+is_a: GOCHE:35470 {is_inferred="true"} ! substance with central nervous system drug
application
+is_a: GOCHE:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+is_a: GOCHE:38632 {is_inferred="true"} ! substance with membrane transport modulator
biological role
+is_a: GOCHE:38867 {is_inferred="true"} ! substance with anaesthetic application
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+is_a: GOCHE:52210 {is_inferred="true"} ! substance with pharmacological biological
role
+
+ [Term]
+id: CHEBI:27963 ! (Kdo)2-lipid A (E. coli)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:27998 ! tungsten
+is_a: GOCHE:33284 {is_inferred="true"} ! substance with nutrient biological role
+
+ [Term]
+id: CHEBI:28001 ! vancomycin
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+
+ [Term]
+id: CHEBI:28017 ! starch
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:28044 ! phenylalanine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:28053 ! melibiose
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:48705 {is_inferred="true"} ! substance with agonist biological role
+
+ [Term]
+id: CHEBI:28058 ! alpha-Neu5Ac-(2->3)-beta-D-Gal-(1->3)-beta-beta-D-GalNAc-(1->4)-
[alpha-Neu5Ac-(2->8)-alpha-Neu5Ac-(2->3)]-beta-beta-D-Gal-(1->4)-beta-beta-D-
```

Glc-(1<->1')-Cer
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28073 ! chromium atom
+is_a: GOCHE:33284 {is_inferred="true"} ! substance with nutrient biological role
+
+[Term]
+id: CHEBI:28087 ! glycogen
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28088 ! genistein
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:35610 {is_inferred="true"} ! substance with antineoplastic agent application
+is_a: GOCHE:50114 {is_inferred="true"} ! substance with estrogen hormone role
+
+[Term]
+id: CHEBI:28093 ! borneol
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28097 ! chlorobenzene
+is_a: GOCHE:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:28102 ! amylose
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28107 ! 2-isopropylmalate(2-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28113 ! 24,25-dihydrolanosterol
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28118 ! muramic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28122 ! p-cumic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28145 ! dibenzofuran
+is_a: GOCHE:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+
+[Term]
+id: CHEBI:28163 ! iron(III) hydroxamate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28199 ! ferrienterobactin(3-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28201 ! rotenone
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHE:24852 {is_inferred="true"} ! substance with insecticide application
+is_a: GOCHE:27026 {is_inferred="true"} ! substance with toxin biological role

```
+is_a: GOCHE:35610 {is_inferred="true"} ! substance with antineoplastic agent
application
+
+[Term]
+id: CHEBI:28205 ! phaseic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28217 ! acrylonitrile
+is_a: GOCHE:24432 {is_inferred="true"} ! substance with biological role
+
+[Term]
+id: CHEBI:28247 ! 11beta-hydroxyprogesterone
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28260 ! galactose
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28262 ! dimethyl sulfoxide
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+is_a: GOCHE:52210 {is_inferred="true"} ! substance with pharmacological biological
role
+
+[Term]
+id: CHEBI:28295 ! 2-deoxystreptamine
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+
+[Term]
+id: CHEBI:28300 ! glutamine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28304 ! heparin
+is_a: GOCHE:50249 {is_inferred="true"} ! substance with anticoagulant application
+
+[Term]
+id: CHEBI:28324 ! 11-deoxycortisol
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28328 ! D-galactosamine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28358 ! rac-lactic acid
+is_a: GOCHE:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHE:52211 {is_inferred="true"} ! substance with physiological biological role
+
+[Term]
+id: CHEBI:28368 ! novobiocin
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+
+[Term]
+id: CHEBI:28384 ! vitamin K
+is_a: GOCHE:24020 {is_inferred="true"} ! substance with fat-soluble vitamin biological
role
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
```

+
+[Term]
+id: CHEBI:28386 ! 4-hydroxycinnamyl alcohol
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28398 ! butan-2-one
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:28426 ! cyanidin 3-O-beta-D-glucoside
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28428 ! beta-hexachlorocyclohexane
+is_a: GOCHF:25944 {is_inferred="true"} ! substance with pesticide application
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:28436 ! delphinidin
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:35610 {is_inferred="true"} ! substance with antineoplastic agent
application
+is_a: GOCHF:52208 {is_inferred="true"} ! substance with biophysical biological role
+
+[Term]
+id: CHEBI:28460 ! maltotetraose
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+
+[Term]
+id: CHEBI:28484 ! isovaleric acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28498 ! acadesine
+is_a: GOCHF:35610 {is_inferred="true"} ! substance with antineoplastic agent
application
+is_a: GOCHF:50427 {is_inferred="true"} ! substance with platelet aggregation inhibitor
application
+
+[Term]
+id: CHEBI:28499 ! kaempferol
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+
+[Term]
+id: CHEBI:28579 ! epsilon-caprolactam
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28591 ! guaiacol
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+
+[Term]
+id: CHEBI:28600 ! farnesol
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:33281 {is_inferred="true"} ! substance with antimicrobial agent

```
application
+
+[Term]
+id: CHEBI:28602 ! beta-D-fructofuranose 2,6-bisphosphate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28616 ! carbamic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28618 ! 1,4-dichlorobenzene
+is_a: GOCHF:24852 {is_inferred="true"} ! substance with insecticide application
+
+[Term]
+id: CHEBI:28619 ! acrylamide
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+is_a: GOCHF:64909 {is_inferred="true"} ! substance with poison biological role
+
+[Term]
+id: CHEBI:28621 ! triethanolamine
+is_a: GOCHF:35195 {is_inferred="true"} ! substance with surfactant chemical property
+
+[Term]
+id: CHEBI:28624 ! tetrahydrofolyl-poly(glutamic acid) macromolecule
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28631 ! 3-phenylpropionic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+
+[Term]
+id: CHEBI:28635 ! 2-isopropylmalic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28659 ! phosphorus atom
+is_a: GOCHF:33284 {is_inferred="true"} ! substance with nutrient biological role
+
+[Term]
+id: CHEBI:28666 ! leukotriene D4
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28680 ! cytarabine
+is_a: GOCHF:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+is_a: GOCHF:35221 {is_inferred="true"} ! substance with antimetabolite biological role
+is_a: GOCHF:35610 {is_inferred="true"} ! substance with antineoplastic agent
application
+
+[Term]
+id: CHEBI:28681 ! N,N'-diacetylchitobiose
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28683 ! kynurenine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28685 ! molybdenum atom
+is_a: GOCHF:33284 {is_inferred="true"} ! substance with nutrient biological role
+
+[Term]
```

```
+id: CHEBI:28689 ! dehydroepiandrosterone
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:50113 {is_inferred="true"} ! substance with androgen hormone role
+
+[Term]
+id: CHEBI:28694 ! copper atom
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33284 {is_inferred="true"} ! substance with nutrient biological role
+
+[Term]
+id: CHEBI:28716 ! (9Z)-hexadecenoic acid
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28723 ! D-glycero-D-manno-heptose 7-phosphate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28747 ! picolinic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33232 {is_inferred="true"} ! substance with application
+
+[Term]
+id: CHEBI:28757 ! fructose
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28768 ! p-cymene
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28787 ! nitroglycerin
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:28790 ! serotonin
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:25512 {is_inferred="true"} ! substance with neurotransmitter biological
role
+
+[Term]
+id: CHEBI:28800 ! N-acetylgalactosamine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28808 ! mannan
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28813 ! sinapyl alcohol
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28815 ! heparan sulfate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28817 ! dodecane
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28826 ! fluoromethane
+is_a: GOCHE:33232 {is_inferred="true"} ! substance with application
```



```
+
+[Term]
+id: CHEBI:28831 ! propan-1-ol
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHE:37527 {is_inferred="true"} ! substance with acid chemical property
+
+[Term]
+id: CHEBI:28837 ! octanoic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+
+[Term]
+id: CHEBI:28842 ! octadecanoic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28851 ! phenanthrene
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:28854 ! 2,4-D
+is_a: GOCHE:22676 {is_inferred="true"} ! substance with auxin biological role
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOCHE:24527 {is_inferred="true"} ! substance with herbicide application
+is_a: GOCHE:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+
+[Term]
+id: CHEBI:28855 ! enterobactin
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:26672 {is_inferred="true"} ! substance with siderophore chemical property
+
+[Term]
+id: CHEBI:28864 ! tobramycin
+is_a: GOCHE:27026 {is_inferred="true"} ! substance with toxin biological role
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+
+[Term]
+id: CHEBI:28866 ! tetracosanoic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28869 ! menadione
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+
+[Term]
+id: CHEBI:28875 ! tetradecanoic acid
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28885 ! butan-1-ol
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHE:37527 {is_inferred="true"} ! substance with acid chemical property
+
+[Term]
+id: CHEBI:28890 ! coenzyme B
+is_a: GOCHE:23354 {is_inferred="true"} ! substance with coenzyme biological role
+
+[Term]
+id: CHEBI:28897 ! pentadecane
```

+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28934 ! vitamin D2
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:25944 {is_inferred="true"} ! substance with pesticide application
+
+[Term]
+id: CHEBI:28937 ! (-)-abscisic acid
+is_a: GOCHF:37848 {is_inferred="true"} ! substance with phytohormone biological role
+
+[Term]
+id: CHEBI:28938 ! ammonium
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28940 ! calciol
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28976 ! carbonic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28995 ! 2,4-dichlorobenzoate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:28997 ! 2'-deoxyinosine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:29005 ! cyclohexane
+is_a: GOCHF:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:29014 ! cordycepin
+is_a: GOCHF:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+is_a: GOCHF:35221 {is_inferred="true"} ! substance with antimetabolite biological role
+
+[Term]
+id: CHEBI:29016 ! arginine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:29021 ! hexane
+is_a: GOCHF:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+is_a: GOCHF:64909 {is_inferred="true"} ! substance with poison biological role
+
+[Term]
+id: CHEBI:29033 ! iron(2+)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:29034 ! iron(3+)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:29069 ! phthalic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:29073 ! L-ascorbic acid

```
+is_a: GOCHE:23354 {is_inferred="true"} ! substance with coenzyme biological role
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:27314 {is_inferred="true"} ! substance with water-soluble vitamin
biological role
+is_a: GOCHE:33232 {is_inferred="true"} ! substance with application
+
+[Term]
+id: CHEBI:29101 ! sodium(1+)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:29103 ! potassium(1+)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:29105 ! zinc(2+)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:29195 ! cyanate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:29200 ! thiocyanic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:29264 ! tRNA(Sec)
+is_a: SO:0000253 {is_inferred="true"} ! tRNA
+
+[Term]
+id: CHEBI:29669 ! pyochelin
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:26672 {is_inferred="true"} ! substance with siderophore chemical property
+
+[Term]
+id: CHEBI:29678 ! sodium arsenite
+is_a: GOCHE:24527 {is_inferred="true"} ! substance with herbicide application
+is_a: GOCHE:24852 {is_inferred="true"} ! substance with insecticide application
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+is_a: GOCHE:35610 {is_inferred="true"} ! substance with antineoplastic agent
application
+
+[Term]
+id: CHEBI:29699 ! tunicamycin
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+
+[Term]
+id: CHEBI:29701 ! tyrocidine A
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:29744 ! lithocholate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:29748 ! chorismate(2-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:29805 ! glycolate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
```

+ [Term]
+id: CHEBI:29806 ! fumarate(2-)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:29864 ! mannitol
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:29919 ! hydrosulfide
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:29959 ! quinolate(2-)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:29985 ! L-glutamate(1-)
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+

+ [Term]
+id: CHEBI:29987 ! glutamate(2-)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:29995 ! aspartate(2-)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:30023 ! trans-sinapate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:30031 ! succinate(2-)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:30089 ! acetate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:3015 ! benomyl
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:52210 {is_inferred="true"} ! substance with pharmacological biological role
+

+ [Term]
+id: CHEBI:30200 ! kaempferol 3-O-beta-D-glucoside
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:33281 {is_inferred="true"} ! substance with antimicrobial agent application
+

+ [Term]
+id: CHEBI:30260 ! cyromazine
+is_a: GOCHF:24852 {is_inferred="true"} ! substance with insecticide application
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:30313 ! lipoate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:30362 ! isopentane
+is_a: GOCHF:33232 {is_inferred="true"} ! substance with application
+

```
+ [Term]
+id: CHEBI:30363 ! isobutane
+is_a: GOACHE:33232 {is_inferred="true"} ! substance with application
+is_a: GOACHE:52211 {is_inferred="true"} ! substance with physiological biological role
+
+ [Term]
+id: CHEBI:30409 ! iron-sulfur-molybdenum cofactor
+is_a: GOACHE:23357 {is_inferred="true"} ! substance with cofactor biological role
+
+ [Term]
+id: CHEBI:30411 ! cobalamin
+is_a: GOACHE:23357 {is_inferred="true"} ! substance with cofactor biological role
+is_a: GOACHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOACHE:27314 {is_inferred="true"} ! substance with water-soluble vitamin
biological role
+
+ [Term]
+id: CHEBI:30413 ! heme
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:30531 ! pimelic acid
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:30566 ! gamma-aminobutyrate
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:30613 ! glucarate(2-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:30616 ! ATP(4-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:30623 ! oxalate(2-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:30660 ! thyroxine
+is_a: GOACHE:24432 {is_inferred="true"} ! substance with biological role
+
+ [Term]
+id: CHEBI:30744 ! oxaloacetic acid
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:30745 ! phenylacetic acid
+is_a: GOACHE:22676 {is_inferred="true"} ! substance with auxin biological role
+is_a: GOACHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOACHE:27026 {is_inferred="true"} ! substance with toxin biological role
+
+ [Term]
+id: CHEBI:30746 ! benzoic acid
+is_a: GOACHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOACHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOACHE:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+is_a: GOACHE:52211 {is_inferred="true"} ! substance with physiological biological role
+
+ [Term]
+id: CHEBI:30748 ! 2,4-dichlorobenzoic acid
```

```
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:30751 ! formic acid
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+
+[Term]
+id: CHEBI:30753 ! 4-aminobenzoic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:30754 ! anthranilic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:27314 {is_inferred="true"} ! substance with water-soluble vitamin
biological role
+
+[Term]
+id: CHEBI:30762 ! salicylate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:30765 ! tropic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:30768 ! propionic acid
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+
+[Term]
+id: CHEBI:30769 ! citric acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+is_a: GOCHE:38161 {is_inferred="true"} ! substance with chelator chemical property
+is_a: GOCHE:52211 {is_inferred="true"} ! substance with physiological biological role
+
+[Term]
+id: CHEBI:30772 ! butyric acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:30776 ! hexanoic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:30778 ! gallic acid
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:35610 {is_inferred="true"} ! substance with antineoplastic agent
application
+
+[Term]
+id: CHEBI:30779 ! succinate(1-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:30780 ! maleate(2-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:30794 ! malonic acid
```

+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:30800 ! phthalate(1-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:30805 ! dodecanoic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent application
+
+[Term]
+id: CHEBI:30807 ! tetradecanoate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:30823 ! oleate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:30830 ! 4-hydroxybutyric acid
+is_a: GOCHE:35488 {is_inferred="true"} ! substance with central nervous system depressant application
+is_a: GOCHE:38867 {is_inferred="true"} ! substance with anaesthetic application
+is_a: GOCHE:52210 {is_inferred="true"} ! substance with pharmacological biological role
+is_a: GOCHE:64909 {is_inferred="true"} ! substance with poison biological role
+
+[Term]
+id: CHEBI:30832 ! adipic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHE:52211 {is_inferred="true"} ! substance with physiological biological role
+
+[Term]
+id: CHEBI:30833 ! adipate(1-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:30837 ! allantoinic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:30839 ! orotate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:30851 ! keto-phenylpyruvic acid
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33232 {is_inferred="true"} ! substance with application
+
+[Term]
+id: CHEBI:30852 ! galactaric acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:30853 ! glycyrrhethinic acid
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:30854 ! indole-3-acetate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+

```
+ [Term]
+id: CHEBI:30860 ! methylmalonic acid
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:30861 ! methylmalonate(1-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:30887 ! isocitric acid
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:30911 ! glucitol
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:30915 ! 2-oxoglutaric acid
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:30916 ! 2-oxoglutarate(1-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:30921 ! glutarate(2-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:30929 ! 2,3-dihydroxybutanedioate
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:31011 ! valerate
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:31014 ! lignocerate
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:31355 ! carboplatin
+is_a: GOACHE:24432 {is_inferred="true"} ! substance with biological role
+is_a: GOACHE:35610 {is_inferred="true"} ! substance with antineoplastic agent
application
+
+ [Term]
+id: CHEBI:31463 ! delphinidin 3-O-beta-D-glucoside
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:31529 ! ecgonine methyl ester
+is_a: GOACHE:35488 {is_inferred="true"} ! substance with central nervous system
depressant application
+is_a: GOACHE:52210 {is_inferred="true"} ! substance with pharmacological biological
role
+
+ [Term]
+id: CHEBI:3165 ! bradykinin
+is_a: GOACHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:31746 ! kainic acid
+is_a: GOACHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOACHE:25944 {is_inferred="true"} ! substance with pesticide application
+is_a: GOACHE:52210 {is_inferred="true"} ! substance with pharmacological biological
```


role
+
+[Term]
+id: CHEBI:31885 ! N-acetyl-L-2-aminoadipic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:31967 ! pelargonidin 3-O-beta-D-glucoside
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:31997 ! N,N-dimethylethanolamine phosphate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32372 ! palmitoleate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32373 ! 4-coumarate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32387 ! alpha-linolenate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32395 ! arachidonate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32402 ! catecholate(2-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32439 ! alaninate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32440 ! alaninium
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32442 ! L-cysteinate(1-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32443 ! L-cysteinate(2-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32445 ! L-cysteinium
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32446 ! all-trans-neoxanthin
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:52208 {is_inferred="true"} ! substance with biophysical biological role
+
+[Term]
+id: CHEBI:32449 ! D-cysteinate(1-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32450 ! D-cysteinate(2-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+

```
+ [Term]
+id: CHEBI:32451 ! D-cysteinium
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:32486 ! L-phenylalaninate
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:32487 ! L-phenylalaninium
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:324935 ! fumagillol
+is_a: GOACHE:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+
+ [Term]
+id: CHEBI:32507 ! glycinium
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:32508 ! glycinate
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:32510 ! L-histidinate(1-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:32511 ! L-histidinate(2-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:32512 ! L-histidinium(2+)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:32513 ! L-histidinium(1+)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:32523 ! D-histidinate(1-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:32524 ! D-histidinate(2-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:32526 ! D-histidinium(1+)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:32527 ! D-histidinium(2+)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:32544 ! nicotinate
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:32550 ! L-lysinate
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:32551 ! L-lysinium(1+)
```

+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32552 ! L-lysinium(2+)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32556 ! D-lysinate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32557 ! D-lysinium(1+)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32558 ! D-lysinium(2+)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32604 ! L-isoleucinate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32605 ! L-isoleucinium
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32608 ! D-isoleucinate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32609 ! D-isoleucinium
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32619 ! L-leucinate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32620 ! L-leucinium
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32623 ! D-leucinate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32624 ! D-leucinium
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:326268 ! 1,4-butanediammonium
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32631 ! L-methioninate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32632 ! L-methioninium
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32637 ! D-methioninate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]

+id: CHEBI:32638 ! D-methioninium
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32682 ! L-argininium(1+)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32689 ! D-argininium(1+)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32702 ! L-tryptophanate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32704 ! L-tryptophanium
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32716 ! D-tryptophanate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32717 ! D-tryptophanium
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32760 ! L-tyrosinate(1-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32761 ! L-tyrosinate(2-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32762 ! L-tyrosinium
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32773 ! D-tyrosinate(1-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32774 ! D-tyrosinate(2-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32775 ! D-tyrosinium
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:327995 ! tyraminium
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:25512 {is_inferred="true"} ! substance with neurotransmitter biological role
+
+[Term]
+id: CHEBI:32807 ! o-orsellinic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32816 ! pyruvic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32820 ! L-threoninate

```
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32822 ! L-threoninium
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32827 ! D-threoninate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32828 ! D-threoninium
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32845 ! serinate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32846 ! serinium
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32851 ! L-valinate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32852 ! L-valinium
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32855 ! D-valinate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32856 ! D-valinium
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32862 ! L-prolinate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32864 ! L-prolinium
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32867 ! D-prolinate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32868 ! D-prolinium
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32879 ! propane
+is_a: GOCHE:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHE:52211 {is_inferred="true"} ! substance with physiological biological role
+
+[Term]
+id: CHEBI:32888 ! gamma-hexachlorocyclohexane
+is_a: GOCHE:24127 {is_inferred="true"} ! substance with fungicide application
+is_a: GOCHE:38632 {is_inferred="true"} ! substance with membrane transport modulator
biological role
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
```

```
+id: CHEBI:32892 ! nonane
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32898 ! baccatin III
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32926 ! octadecane
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:32970 ! 2-aminoethanesulfonate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:3306 ! calcitonin
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:33070 ! indole-3-butyric acid
+is_a: GOCHF:22676 {is_inferred="true"} ! substance with auxin biological role
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:33118 ! boric acid
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+
+[Term]
+id: CHEBI:33143 ! chromic acid
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:33198 ! D-gluconic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:38161 {is_inferred="true"} ! substance with chelator chemical property
+
+[Term]
+id: CHEBI:33216 ! bisphenol A
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+is_a: GOCHF:50114 {is_inferred="true"} ! substance with estrogen hormone role
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:33221 ! corrin
+is_a: GOCHF:23357 {is_inferred="true"} ! substance with cofactor biological role
+
+[Term]
+id: CHEBI:33232 ! application
+is_a: BFO:0000023 {is_inferred="true"} ! role
+
+[Term]
+id: CHEBI:33234 ! vitamin E
+is_a: GOCHF:24020 {is_inferred="true"} ! substance with fat-soluble vitamin biological
role
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:33404 ! 3-hydroxypropionic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:33405 ! hydracid
+is_a: GOCHF:37527 {is_inferred="true"} ! substance with acid chemical property
+
```

```
+ [Term]
+id: CHEBI:3347 ! candesartan
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+is_a: GOCHF:52210 {is_inferred="true"} ! substance with pharmacological biological
role
+
+ [Term]
+id: CHEBI:3349 ! candididin D
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:33508 ! glyceric acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:33568 ! adrenaline
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:33569 ! noradrenaline
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:33699 ! messenger RNA
+is_a: SO:0000233 {is_inferred="true"} ! mature_transcript
+
+ [Term]
+id: CHEBI:3375 ! capsaanthin
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:33830 ! galacturonic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:33837 ! conjugated protein
+is_a: PR:000000001 {is_inferred="true"} ! protein
+
+ [Term]
+id: CHEBI:33848 ! polycyclic arene
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:24432 {is_inferred="true"} ! substance with biological role
+
+ [Term]
+id: CHEBI:33871 ! glycerate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:3392 ! carbendazim
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:52210 {is_inferred="true"} ! substance with pharmacological biological
role
+
+ [Term]
+id: CHEBI:33980 ! quinovose
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:3424 ! carnitinium
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:34342 ! 3-methylcholanthrene
+is_a: GOCHF:48705 {is_inferred="true"} ! substance with agonist biological role
```

+
+[Term]
+id: CHEBI:34687 ! dibutyl phthalate
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:34768 ! furfural
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:34779 ! glyoxal
+is_a: GOCHF:24432 {is_inferred="true"} ! substance with biological role
+is_a: GOCHF:25944 {is_inferred="true"} ! substance with pesticide application
+
+[Term]
+id: CHEBI:34848 ! mevastatin
+is_a: GOCHF:33281 {is_inferred="true"} ! substance with antimicrobial agent application
+
+[Term]
+id: CHEBI:34892 ! nocodazole
+is_a: GOCHF:35610 {is_inferred="true"} ! substance with antineoplastic agent application
+is_a: GOCHF:52210 {is_inferred="true"} ! substance with pharmacological biological role
+
+[Term]
+id: CHEBI:34905 ! paraquat
+is_a: GOCHF:24527 {is_inferred="true"} ! substance with herbicide application
+
+[Term]
+id: CHEBI:350546 ! serotonin(1+)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:35194 ! isoprene
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:3528 ! cellotriase
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:35280 ! L-proline betaine
+is_a: GOCHF:52211 {is_inferred="true"} ! substance with physiological biological role
+
+[Term]
+id: CHEBI:35291 ! all-trans-retinoate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:35338 ! amphetamines
+is_a: GOCHF:35470 {is_inferred="true"} ! substance with central nervous system drug application
+
+[Term]
+id: CHEBI:35390 ! galactarate(1-)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:35391 ! aspartate(1-)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]

+id: CHEBI:35404 ! chromate(2-)
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:35418 ! N-acetylneuraminate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:35484 ! phthalate ester
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+
+[Term]
+id: CHEBI:35492 ! cystine zwitterion
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:354984 ! candididin
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:35559 ! furan
+is_a: GOCHF:24432 {is_inferred="true"} ! substance with biological role
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:35581 ! indole
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:35584 ! purine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:35710 ! pinane
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:35780 ! phosphate ion
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:35804 ! citrate(1-)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:35808 ! citrate(2-)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:35825 ! mandelic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:33281 {is_inferred="true"} ! substance with antimicrobial agent application
+
+[Term]
+id: CHEBI:35862 ! bacitracin A
+is_a: GOCHF:33281 {is_inferred="true"} ! substance with antimicrobial agent application
+
+[Term]
+id: CHEBI:35907 ! glutarate(1-)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:35940 ! protirelin
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

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+ [Term]
+id: CHEBI:35998 ! tridecane
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:36021 ! octadec-9-enoic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:36033 ! icosatetraenoic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:36062 ! 3,4-dihydroxybenzoic acid
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:35610 {is_inferred="true"} ! substance with antineoplastic agent
application
+
+ [Term]
+id: CHEBI:36080 ! protein
+is_a: PR:000018263 {is_inferred="true"} ! amino acid chain
+
+ [Term]
+id: CHEBI:36090 ! 4-coumaric acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:36208 ! shikimate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:36234 ! chenodeoxycholate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:36242 ! 3-(4-hydroxyphenyl)pyruvate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:36264 ! molybdate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:36281 ! caffeic acid
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:3638 ! chloroquine
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+is_a: GOCHF:35222 {is_inferred="true"} ! substance with inhibitor chemical property
+is_a: GOCHF:52206 {is_inferred="true"} ! substance with biochemical biological role
+
+ [Term]
+id: CHEBI:36420 ! acridine
+is_a: GOCHF:24432 {is_inferred="true"} ! substance with biological role
+
+ [Term]
+id: CHEBI:36432 ! 2-methylbut-2-enoic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
```

+id: CHEBI:36464 ! (R)-mevalonate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:36655 ! glyoxylate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:36740 ! alpha-pinene
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:36756 ! farnesane
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:36773 ! camphor
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:36810 ! (trifluoromethyl)benzene
+is_a: GOCHF:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:36946 ! thiourea
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:36970 ! vitamin B6 phosphate
+is_a: GOCHF:23357 {is_inferred="true"} ! substance with cofactor biological role
+
+[Term]
+id: CHEBI:37024 ! 2-aminoadipic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:37054 ! 3-hydroxybutyrate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:37070 ! 2-methylbutyric acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:37080 ! acrylate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:37127 ! 3-methylbut-2-enoic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:37154 ! fumarate(1-)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:37165 ! galactan
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:37257 ! phytanate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:37440 ! 3-oxoadipic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role

+
+[Term]
+id: CHEBI:37537 ! phorbol 13-acetate 12-myristate
+is_a: GOCHF:35610 {is_inferred="true"} ! substance with antineoplastic agent application
+is_a: GOCHF:48705 {is_inferred="true"} ! substance with agonist biological role
+
+[Term]
+id: CHEBI:37550 ! sphingosine 1-phosphate
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:33280 {is_inferred="true"} ! substance with molecular messenger biological role
+is_a: GOCHF:35222 {is_inferred="true"} ! substance with inhibitor chemical property
+is_a: GOCHF:48705 {is_inferred="true"} ! substance with agonist biological role
+
+[Term]
+id: CHEBI:37563 ! CTP(4-)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:37565 ! GTP(4-)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:37568 ! dTTP(4-)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:37598 ! nitrogen mustard
+is_a: GOCHF:24432 {is_inferred="true"} ! substance with biological role
+
+[Term]
+id: CHEBI:3766 ! clozapine
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHF:35476 {is_inferred="true"} ! substance with antipsychotic drug application
+is_a: GOCHF:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+
+[Term]
+id: CHEBI:37671 ! (1->3)-beta-D-glucan
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:37684 ! mannose
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:37690 ! alloose
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:37808 ! butane
+is_a: GOCHF:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHF:52211 {is_inferred="true"} ! substance with physiological biological role
+
+[Term]
+id: CHEBI:37931 ! 10H-phenothiazine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:37941 ! clopidogrel
+is_a: GOCHF:50249 {is_inferred="true"} ! substance with anticoagulant application
+is_a: GOCHF:50427 {is_inferred="true"} ! substance with platelet aggregation inhibitor application
+is_a: GOCHF:52210 {is_inferred="true"} ! substance with pharmacological biological role

+
+[Term]
+id: CHEBI:38028 ! cyanuric acid
+is_a: GOCHF:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+
+[Term]
+id: CHEBI:38108 ! azetidone-2-carboxylic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:38150 ! enterobactin(6-)
+is_a: GOCHF:26672 {is_inferred="true"} ! substance with siderophore chemical property
+
+[Term]
+id: CHEBI:38224 ! fumonisin
+is_a: GOCHF:25442 {is_inferred="true"} ! substance with mycotoxin biological role
+
+[Term]
+id: CHEBI:38263 ! 2-amino-3-hydroxybutanoic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:38290 ! L-ascorbate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:27314 {is_inferred="true"} ! substance with water-soluble vitamin biological role
+
+[Term]
+id: CHEBI:383703 ! 3,6-diamino-10-methylacridinium chloride
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:33281 {is_inferred="true"} ! substance with antimicrobial agent application
+
+[Term]
+id: CHEBI:38560 ! simple protein
+is_a: PR:000000001 {is_inferred="true"} ! protein
+
+[Term]
+id: CHEBI:38579 ! peptide pheromone
+is_a: GOCHF:26013 {is_inferred="true"} ! substance with pheromone biological role
+
+[Term]
+id: CHEBI:38656 ! organochlorine pesticide
+is_a: GOCHF:25944 {is_inferred="true"} ! substance with pesticide application
+
+[Term]
+id: CHEBI:38825 ! tetrafluoromethane
+is_a: GOCHF:33232 {is_inferred="true"} ! substance with application
+
+[Term]
+id: CHEBI:38846 ! phenoxyacetate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:38853 ! decalin
+is_a: GOCHF:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:3892 ! corticotropin
+is_a: GOCHF:52217 {is_inferred="true"} ! substance with pharmaceutical application
+
+[Term]
+id: CHEBI:39054 ! NTA
+is_a: GOCHF:38161 {is_inferred="true"} ! substance with chelator chemical property
+
+[Term]

+id: CHEBI:39093 ! organophosphorus pesticide
+is_a: GOACHE:25944 {is_inferred="true"} ! substance with pesticide application
+
+[Term]
+id: CHEBI:39258 ! diphenyl ether
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:3962 ! curcumin
+is_a: GOACHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOACHE:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+is_a: GOACHE:35610 {is_inferred="true"} ! substance with antineoplastic agent
application
+is_a: GOACHE:38157 {is_inferred="true"} ! substance with iron chelator chemical
property
+is_a: GOACHE:52208 {is_inferred="true"} ! substance with biophysical biological role
+is_a: GOACHE:52211 {is_inferred="true"} ! substance with physiological biological role
+
+[Term]
+id: CHEBI:40 ! (+)-pinoresinol
+is_a: GOACHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOACHE:50114 {is_inferred="true"} ! substance with estrogen hormone role
+
+[Term]
+id: CHEBI:40036 ! amitrole
+is_a: GOACHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOACHE:24527 {is_inferred="true"} ! substance with herbicide application
+
+[Term]
+id: CHEBI:40235 ! 9H-purine-2,6-diamine
+is_a: GOACHE:35610 {is_inferred="true"} ! substance with antineoplastic agent
application
+
+[Term]
+id: CHEBI:4027 ! cyclophosphamide
+is_a: GOACHE:35610 {is_inferred="true"} ! substance with antineoplastic agent
application
+is_a: GOACHE:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+is_a: GOACHE:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:40303 ! lovastatin
+is_a: GOACHE:35610 {is_inferred="true"} ! substance with antineoplastic agent
application
+
+[Term]
+id: CHEBI:4031 ! cyclosporin A
+is_a: GOACHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOACHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOACHE:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+
+[Term]
+id: CHEBI:40721 ! AMP(1+)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:40910 ! azide anion
+is_a: GOACHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+

```
+ [Term]
+id: CHEBI:40968 ! astaxanthin
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:50249 {is_inferred="true"} ! substance with anticoagulant application
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+is_a: GOCHF:52211 {is_inferred="true"} ! substance with physiological biological role
+
+ [Term]
+id: CHEBI:41139 ! N,N,N-trimethylglycinium
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:41189 ! butane-1,4-diol
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:37527 {is_inferred="true"} ! substance with acid chemical property
+is_a: GOCHF:64909 {is_inferred="true"} ! substance with poison biological role
+
+ [Term]
+id: CHEBI:41308 ! benzophenone
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+ [Term]
+id: CHEBI:41550 ! fluoroform
+is_a: GOCHF:33232 {is_inferred="true"} ! substance with application
+
+ [Term]
+id: CHEBI:41879 ! dexamethasone
+is_a: GOCHF:35610 {is_inferred="true"} ! substance with antineoplastic agent
application
+is_a: GOCHF:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+
+ [Term]
+id: CHEBI:41977 ! daunorubicin
+is_a: GOCHF:35610 {is_inferred="true"} ! substance with antineoplastic agent
application
+
+ [Term]
+id: CHEBI:42223 ! emodin
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:35610 {is_inferred="true"} ! substance with antineoplastic agent
application
+
+ [Term]
+id: CHEBI:42255 ! (-)-epigallocatechin
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+is_a: GOCHF:52211 {is_inferred="true"} ! substance with physiological biological role
+
+ [Term]
+id: CHEBI:42266 ! ethane
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:33232 {is_inferred="true"} ! substance with application
+
+ [Term]
+id: CHEBI:42471 ! forskolin
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+is_a: GOCHF:48705 {is_inferred="true"} ! substance with agonist biological role
+is_a: GOCHF:50427 {is_inferred="true"} ! substance with platelet aggregation inhibitor
application
+
+ [Term]
```

+id: CHEBI:43034 ! 7,8-didemethyl-8-hydroxy-5-deazariboflavin
+is_a: GOCHF:23357 {is_inferred="true"} ! substance with cofactor biological role
+
+[Term]
+id: CHEBI:43451 ! hydrogen iodide
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:43572 ! kojic acid
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:33232 {is_inferred="true"} ! substance with application
+
+[Term]
+id: CHEBI:43619 ! icosane
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:43966 ! melagatran
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHF:50249 {is_inferred="true"} ! substance with anticoagulant application
+
+[Term]
+id: CHEBI:44185 ! methotrexate
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHF:35221 {is_inferred="true"} ! substance with antimetabolite biological role
+is_a: GOCHF:35610 {is_inferred="true"} ! substance with antineoplastic agent application
+
+[Term]
+id: CHEBI:443725 ! fosmidomycin
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:33281 {is_inferred="true"} ! substance with antimicrobial agent application
+
+[Term]
+id: CHEBI:44409 ! NADP zwitterion
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:44423 ! hydroxyurea
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHF:35221 {is_inferred="true"} ! substance with antimetabolite biological role
+is_a: GOCHF:35610 {is_inferred="true"} ! substance with antineoplastic agent application
+is_a: GOCHF:52210 {is_inferred="true"} ! substance with pharmacological biological role
+
+[Term]
+id: CHEBI:44557 ! nitrilotriacetic acid
+is_a: GOCHF:24432 {is_inferred="true"} ! substance with biological role
+
+[Term]
+id: CHEBI:44667 ! L-ornithinium(2+)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:4469 ! (S)-amphetamine
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:52210 {is_inferred="true"} ! substance with pharmacological biological role

+is_a: GOCHF:64909 {is_inferred="true"} ! substance with poison biological role
+
+[Term]
+id: CHEBI:4470 ! dextromethorphan
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+is_a: GOCHF:52210 {is_inferred="true"} ! substance with pharmacological biological role
+is_a: GOCHF:64909 {is_inferred="true"} ! substance with poison biological role
+
+[Term]
+id: CHEBI:44747 ! homogentisic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:44800 ! (2R,4S)-2-methyltetrahydrofuran-2,3,3,4-tetrol
+is_a: GOCHF:33280 {is_inferred="true"} ! substance with molecular messenger biological role
+
+[Term]
+id: CHEBI:44811 ! 2-O-acetyl-1-O-hexadecyl-sn-glycero-3-phosphocholine
+is_a: GOCHF:50248 {is_inferred="true"} ! substance with hematologic agent application
+is_a: GOCHF:52210 {is_inferred="true"} ! substance with pharmacological biological role
+
+[Term]
+id: CHEBI:44897 ! phosphoenolpyruvic acid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:44976 ! phosphonic acid
+is_a: GOCHF:24127 {is_inferred="true"} ! substance with fungicide application
+
+[Term]
+id: CHEBI:45075 ! 7-cyano-7-deazaguanine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:45257 ! ribostamycin
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:45373 ! sulfanilamide
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+
+[Term]
+id: CHEBI:456215 ! AMP(2-)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:456216 ! ADP(3-)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:45725 ! spermine(4+)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:45863 ! paclitaxel
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:35610 {is_inferred="true"} ! substance with antineoplastic agent application
+is_a: GOCHF:52210 {is_inferred="true"} ! substance with pharmacological biological role

+
+[Term]
+id: CHEBI:45906 ! suramin
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:33281 {is_inferred="true"} ! substance with antimicrobial agent application
+
+[Term]
+id: CHEBI:45931 ! thiamine(1+) diphosphate(1-)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:45979 ! thiabendazole
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+
+[Term]
+id: CHEBI:45996 ! ribothymidine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:46024 ! trichostatin A
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:46053 ! 2,4,6-trinitrotoluene
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:46081 ! fluconazole
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHF:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+
+[Term]
+id: CHEBI:46195 ! paracetamol
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+is_a: GOCHF:52210 {is_inferred="true"} ! substance with pharmacological biological role
+
+[Term]
+id: CHEBI:46261 ! N-phenylthiourea
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+
+[Term]
+id: CHEBI:4629 ! diosgenin
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:33281 {is_inferred="true"} ! substance with antimicrobial agent application
+is_a: GOCHF:35610 {is_inferred="true"} ! substance with antineoplastic agent application
+
+[Term]
+id: CHEBI:46345 ! 5-fluorouracil
+is_a: GOCHF:35221 {is_inferred="true"} ! substance with antimetabolite biological role
+is_a: GOCHF:35610 {is_inferred="true"} ! substance with antineoplastic agent application
+is_a: GOCHF:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:4638 ! diphenidol
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application

+
+[Term]
+id: CHEBI:46398 ! UTP(4-)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:46442 ! vanadate(3-)
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+
+[Term]
+id: CHEBI:46570 ! cis-zeatin
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:46645 ! isobutanol
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:4672 ! docetaxel anhydrous
+is_a: GOCHF:33281 {is_inferred="true"} ! substance with antimicrobial agent application
+is_a: GOCHF:35610 {is_inferred="true"} ! substance with antineoplastic agent application
+
+[Term]
+id: CHEBI:46818 ! urate anion
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:46828 ! quinolate(1-)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:46842 ! sarcosinium
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:46904 ! oxalate(1-)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:46905 ! (R)-pantothenic acid
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+
+[Term]
+id: CHEBI:46912 ! ornithinium(1+)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:46914 ! L-ornithinate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:46915 ! sarcosinate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:46957 ! 3-(2-hydroxyphenyl)propanoate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:46961 ! phytosphingosine
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:46998 ! ribofuranose

+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:47025 ! UDP-4-amino-4-deoxy-beta-L-arabinopyranose
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:47027 ! UDP-4-deoxy-4-formamido-beta-L-arabinopyranose
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:47136 ! pentachlorobenzene
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:47724 ! vancomycin aglycone
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:47763 ! beta-L-Ara4N-lipid A
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:47781 ! desipramine
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHE:35469 {is_inferred="true"} ! substance with antidepressant application
+is_a: GOCHE:52210 {is_inferred="true"} ! substance with pharmacological biological role
+
+[Term]
+id: CHEBI:47898 ! 4'-epidoxorubicin
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHE:35610 {is_inferred="true"} ! substance with antineoplastic agent application
+
+[Term]
+id: CHEBI:48041 ! microcystin
+is_a: GOCHE:27026 {is_inferred="true"} ! substance with toxin biological role
+
+[Term]
+id: CHEBI:4806 ! (-)-epigallocatechin 3-gallate
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:35610 {is_inferred="true"} ! substance with antineoplastic agent application
+
+[Term]
+id: CHEBI:48080 ! brefeldin A
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:48107 ! nitric acid
+is_a: GOCHE:33232 {is_inferred="true"} ! substance with application
+
+[Term]
+id: CHEBI:48113 ! 1,3,5-trinitrobenzene
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:48120 ! anthracycline
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:48132 ! tetracenomycin

+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent application
+
+[Term]
+id: CHEBI:4828 ! ergothioneine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:38161 {is_inferred="true"} ! substance with chelator chemical property
+
+[Term]
+id: CHEBI:48526 ! hydratropic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:48635 ! fumagillin
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+
+[Term]
+id: CHEBI:48923 ! erythromycin
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:48928 ! 6-phospho-D-gluconic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:48929 ! 3-carboxy-2,3-dihydroxypropanoate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:48942 ! isovalerate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:48947 ! clavulanic acid
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent application
+is_a: GOCHE:35473 {is_inferred="true"} ! substance with tranquilizing drug application
+
+[Term]
+id: CHEBI:48999 ! 4-hydroxyphenylacetate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:490095 ! esculetin
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:49016 ! 3-(methylthio)propionate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:49019 ! 3-methylthiopropanol
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:4903 ! 17alpha-ethynylestradiol
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:50114 {is_inferred="true"} ! substance with estrogen hormone role
+

+ [Term]
+id: CHEBI:49094 ! tagatose 6-phosphate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:4911 ! etoposide
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHF:35610 {is_inferred="true"} ! substance with antineoplastic agent application
+

+ [Term]
+id: CHEBI:49168 ! dopa
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:4917 ! eugenol
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:49319 ! carbocyclic antibiotic
+is_a: GOCHF:33281 {is_inferred="true"} ! substance with antimicrobial agent application
+

+ [Term]
+id: CHEBI:49322 ! anthracycline antibiotic
+is_a: GOCHF:33281 {is_inferred="true"} ! substance with antimicrobial agent application
+

+ [Term]
+id: CHEBI:49537 ! c-di-GMP
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:33280 {is_inferred="true"} ! substance with molecular messenger biological role
+

+ [Term]
+id: CHEBI:49575 ! diazepam
+is_a: GOCHF:35473 {is_inferred="true"} ! substance with tranquilizing drug application
+is_a: GOCHF:35623 {is_inferred="true"} ! substance with anticonvulsant application
+is_a: GOCHF:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+

+ [Term]
+id: CHEBI:49603 ! lapatinib
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHF:35610 {is_inferred="true"} ! substance with antineoplastic agent application
+

+ [Term]
+id: CHEBI:49637 ! hydrogen atom
+is_a: GOCHF:33284 {is_inferred="true"} ! substance with nutrient biological role
+

+ [Term]
+id: CHEBI:49703 ! latrunculin B
+is_a: GOCHF:27026 {is_inferred="true"} ! substance with toxin biological role
+is_a: GOCHF:35222 {is_inferred="true"} ! substance with inhibitor chemical property
+

+ [Term]
+id: CHEBI:497734 ! L-thialysine
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+

+ [Term]
+id: CHEBI:5001 ! fenofibrate
+is_a: GOCHF:35679 {is_inferred="true"} ! substance with antilipemic drug application
+is_a: GOCHF:35703 {is_inferred="true"} ! substance with xenobiotic biological role

```

+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:5017 ! ferredoxin
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:50211 ! retinol
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:50305 ! podophyllotoxin
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:35610 {is_inferred="true"} ! substance with antineoplastic agent
application
+is_a: GOCHE:52210 {is_inferred="true"} ! substance with pharmacological biological
role
+
+[Term]
+id: CHEBI:50398 ! succinamic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:50450 ! 1-naphthylamine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:50521 ! N-methylnicotinic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:50524 ! catecholate(1-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:50526 ! phenolate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:506227 ! N-acetyl-D-glucosamine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:50648 ! 9-cis-retinoic acid
+is_a: GOCHE:35610 {is_inferred="true"} ! substance with antineoplastic agent
application
+is_a: GOCHE:48705 {is_inferred="true"} ! substance with agonist biological role
+
+[Term]
+id: CHEBI:50906 ! role
+is_a: BFO:0000017 {is_inferred="true"} ! realizable entity
+
+[Term]
+id: CHEBI:51013 ! beta-D-GalNAc-(1->4)-[alpha-Neu5Ac-(2->3)]-beta-D-Gal-(1->4)-beta-
D-Glc-(1<->1')-Cer
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:51057 ! 3-phenylpropionate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:51086 ! chemical role
+is_a: BFO:0000023 {is_inferred="true"} ! role
+
+[Term]
+id: CHEBI:5118 ! fluoxetine

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+is_a: GOCHE:35469 {is_inferred="true"} ! substance with antidepressant application
+is_a: GOCHE:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+is_a: GOCHE:52210 {is_inferred="true"} ! substance with pharmacological biological role
+
+[Term]
+id: CHEBI:5130 ! flurbiprofen
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHE:52210 {is_inferred="true"} ! substance with pharmacological biological role
+
+[Term]
+id: CHEBI:51860 ! dexmethylphenidate
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:52210 {is_inferred="true"} ! substance with pharmacological biological role
+
+[Term]
+id: CHEBI:52090 ! methoxide
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:52092 ! ethoxide
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:52136 ! phosphinothricin
+is_a: GOCHE:24527 {is_inferred="true"} ! substance with herbicide application
+
+[Term]
+id: CHEBI:52289 ! wortmannin
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+
+[Term]
+id: CHEBI:52449 ! 5-oxo-ETE
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:52450 ! 2-O-acetyl-1-O-octadecyl-sn-glycero-3-phosphocholine
+is_a: GOCHE:50248 {is_inferred="true"} ! substance with hematologic agent application
+is_a: GOCHE:52210 {is_inferred="true"} ! substance with pharmacological biological role
+
+[Term]
+id: CHEBI:52646 ! leptomycin B
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent application
+
+[Term]
+id: CHEBI:53071 ! L-galactonate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:53156 ! polychlorobiphenyl
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+
+[Term]
+id: CHEBI:533015 ! 3,3',5-triiodo-L-thyronine zwitterion
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]

+id: CHEBI:5385 ! gliotoxin
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHE:25442 {is_inferred="true"} ! substance with mycotoxin biological role
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent application
+
+[Term]
+id: CHEBI:5445 ! glyceraldehyde
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:5533 ! granaticin
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:35610 {is_inferred="true"} ! substance with antineoplastic agent application
+
+[Term]
+id: CHEBI:5613 ! haloperidol
+is_a: GOCHE:35476 {is_inferred="true"} ! substance with antipsychotic drug application
+is_a: GOCHE:52210 {is_inferred="true"} ! substance with pharmacological biological role
+
+[Term]
+id: CHEBI:569624 ! papulacandin B
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57277 ! 3-(3-hydroxyphenyl)propanoate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57287 ! coenzyme A(4-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57288 ! acetyl-CoA(4-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57292 ! succinyl-CoA(5-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57299 ! ATP(3-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57307 ! protoporphyrinogen(2-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57308 ! uroporphyrinogen III(8-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57326 ! (R)-methylmalonyl-CoA(5-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57336 ! 2-methylbutanoyl-CoA(4-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57344 ! 3-methylbut-2-enoyl-CoA(4-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role

+
+[Term]
+id: CHEBI:57345 ! isovaleryl-CoA(4-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57371 ! butyryl-CoA(4-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57384 ! malonyl-CoA(5-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57392 ! propionyl-CoA(4-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57403 ! prostaglandin I2(1-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57443 ! S-adenosylmethioninaminium
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57445 ! thromboxane A2(1-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57450 ! 5(S)-HPETE(1-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57451 ! dihydrofolate(2-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57454 ! 10-formyltetrahydrofolate(2-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57461 ! leukotriene B4(1-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57463 ! leukotriene A4(1-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57464 ! 5'-xanthylate(2-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57472 ! (N(omega)-L-arginino)succinate(1-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57484 ! trimethylenediaminium
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57499 ! 2-oxoadipate(2-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57527 ! GDP-alpha-D-mannose(2-)

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+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57540 ! NAD(1-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOACHE:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:57566 ! dCMP(2-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57579 ! D-fructose 6-phosphate(2-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57586 ! biotinate
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57590 ! O-phosphonato-L-homoserine(2-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57592 ! cyclohexylsulfamate
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57597 ! sn-glycerol 3-phosphate(2-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57600 ! GTP(3-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57603 ! ethanolaminium(1+)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57614 ! ITP(3-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57623 ! prenyl diphosphate(3-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57629 ! D-glucopyranose 1-phosphate(2-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57632 ! UDP-alpha-D-xylose(2-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57642 ! glycerone phosphate(2-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57651 ! 2-deoxy-D-ribose 5-phosphate(2-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57658 ! 1-phosphatidyl-1D-myo-inositol 3,4-bisphosphate(5-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
```

+ [Term]
+id: CHEBI:57667 ! dADP(3-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:57668 ! D-ornithinium(1+)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:57673 ! dGMP(2-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:57674 ! N-acylsphingosine 1-phosphate(2-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:57683 ! dolichyl phosphate(2-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:57685 ! sn-glycerol 1-phosphate(2-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:57692 ! FAD(3-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:57705 ! UDP-N-acetyl-alpha-D-glucosamine(2-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:57706 ! 4-oxobutanoate
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:57724 ! dCTP(3-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:57739 ! phosphatidate(2-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:57746 ! 3',5'-cyclic GMP(1-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:57756 ! sphingosine(1+)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:57761 ! pyridoxaminium(1+)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:57783 ! NADPH(4-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOACHE:51086 {is_inferred="true"} ! substance with chemical property
+

+ [Term]
+id: CHEBI:57794 ! dGTP(3-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:57812 ! CMP-N-acetyl-beta-neuraminate(2-)

+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57817 ! sphinganine(1+)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57834 ! spermidine(3+)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57836 ! 1-phosphatidyl-1D-myo-inositol 3,4,5-trisphosphate(7-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57847 ! UDP-N-acetyl-D-galactosamine(2-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57852 ! prephenate(2-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57858 ! atropinium
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57861 ! dethiobiotin(1-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57865 ! UMP(2-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57876 ! CDP-ethanolamine(1-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57880 ! 1-phosphatidyl-1D-myo-inositol(1-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57887 ! tryptaminium
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57895 ! 1D-myo-inositol 1,3,4,5-tetrakisphosphate(8-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57917 ! 4-nitrophenolate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57923 ! 1-phosphatidyl-1D-myo-inositol 3,5-bisphosphate(5-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57925 ! glutathionate(1-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57939 ! sphinganine 1-phosphate(1-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]

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+id: CHEBI:57945 ! NADH(2-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOACHE:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:57951 ! L-saccharopinate(1-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57967 ! ADP-D-ribose(2-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57970 ! 1-acyl-sn-glycerol 3-phosphate(2-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57977 ! bilirubin(2-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57984 ! GDP-L-fucose(2-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:57986 ! riboflavin(1-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58017 ! 5-O-phosphonato-alpha-D-ribofuranosyl diphosphate(5-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58027 ! glyceraldehyde 3-phosphate(2-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58052 ! UDP-alpha-D-glucuronate(3-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58053 ! IMP(2-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58057 ! geranyl diphosphate(3-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58065 ! homocysteine zwitterion
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58069 ! CDP(3-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58070 ! dehydroascorbide(1-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58092 ! N-phosphocreatinate(2-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58115 ! GMP(2-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
```

+
+[Term]
+id: CHEBI:58130 ! myo-inositol hexakisphosphate(12-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58145 ! agmatinium(2+)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58149 ! 3-hydroxyphenylacetate
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58164 ! (S)-atropinium
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58165 ! 3',5'-cyclic AMP(1-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58189 ! GDP(3-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58190 ! O-phosphonatoethanaminium(1-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58199 ! L-homocysteine zwitterion
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58210 ! FMN(3-)
+is_a: GOACHE:23354 {is_inferred="true"} ! substance with coenzyme biological role
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58212 ! dUTP(3-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58214 ! kanamycin A(4+)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58217 ! pentachlorophenolate
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58223 ! UDP(3-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58228 ! carbamoyl phosphate(2-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58243 ! 5'-adenylyl sulfate(2-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58245 ! dAMP(2-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]

+id: CHEBI:58249 ! (S,S,S)-nicotianamine trizwitterion
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58273 ! aldehydo-D-ribose 5-phosphate(2-)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58277 ! dehydro-D-arabinono-1,4-lactone(1-)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58280 ! IDP(3-)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58307 ! FADH2(2-)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58332 ! CDP-diacylglycerol(2-)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58339 ! 3'-phosphonato-5'-adenylyl sulfate(4-)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58343 ! adenosine 3',5'-bimonophosphate(4-)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58349 ! NADP(3-)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:58359 ! L-glutamine zwitterion
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58360 ! l-aminocyclopropanecarboxylic acid zwitterion
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58367 ! UDP-D-glucose(2-)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58369 ! dTDP(3-)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58370 ! dTTP(3-)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58384 ! cadaverine(2+)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58389 ! trimethylammonium
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58414 ! 1D-myo-inositol 1,3,4-trisphosphate(6-)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role

+
+[Term]
+id: CHEBI:58419 ! 4-hydroxy-L-proline zwitterion
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58429 ! alpha,alpha-trehalose 6-phosphate(2-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58431 ! jasmonate(1-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58432 ! histaminium
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58439 ! UDP-D-galactose(2-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58454 ! kynurenate
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58462 ! 7,8-dihydroneopterin 3'-triphosphate(4-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58527 ! D-ribosylnicotinate
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58579 ! beta-D-fructofuranose 2,6-bisphosphate(4-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58593 ! dCDP(3-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58595 ! dGDP(3-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58658 ! alpha-D-galacturonate
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:58695 ! D-tagatofuranose 6-phosphate(2-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:5870 ! imidacloprid
+is_a: GOACHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOACHE:24852 {is_inferred="true"} ! substance with insecticide application
+is_a: GOACHE:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+is_a: GOACHE:51086 {is_inferred="true"} ! substance with chemical property
+is_a: GOACHE:52210 {is_inferred="true"} ! substance with pharmacological biological role
+is_a: GOACHE:64909 {is_inferred="true"} ! substance with poison biological role
+
+[Term]
+id: CHEBI:58702 ! phosphonatoenolpyruvate
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:58720 ! D-glucopyranuronate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:58723 ! 2-ammonio-2-deoxy-D-glucopyranose
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:58759 ! 6-phosphonatoxy-D-gluconate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:59062 ! polymyxin
+is_a: GOCHF:33281 {is_inferred="true"} ! substance with antimicrobial agent application
+

+ [Term]
+id: CHEBI:59237 ! phenolic phthiocerol
+is_a: GOCHF:24432 {is_inferred="true"} ! substance with biological role
+

+ [Term]
+id: CHEBI:59240 ! phthiocerol
+is_a: GOCHF:24432 {is_inferred="true"} ! substance with biological role
+

+ [Term]
+id: CHEBI:59338 ! methylammonium
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:59414 ! muramyl dipeptide
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:24432 {is_inferred="true"} ! substance with biological role
+

+ [Term]
+id: CHEBI:59466 ! phosphatidylinositol mannoside
+is_a: GOCHF:24432 {is_inferred="true"} ! substance with biological role
+

+ [Term]
+id: CHEBI:59524 ! lipoarabinomannan
+is_a: GOCHF:27026 {is_inferred="true"} ! substance with toxin biological role
+

+ [Term]
+id: CHEBI:59541 ! coenzyme gamma-F420-2(4-)
+is_a: GOCHF:23354 {is_inferred="true"} ! substance with coenzyme biological role
+

+ [Term]
+id: CHEBI:59640 ! N-acetylglucosamine
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+

+ [Term]
+id: CHEBI:597326 ! pyridoxal 5'-phosphate(2-)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:59806 ! (S)-nicotinium(1+)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:59809 ! docetaxel trihydrate
+is_a: GOCHF:35610 {is_inferred="true"} ! substance with antineoplastic agent application
+

+ [Term]
+id: CHEBI:59905 ! dopaminium(1+)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role

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+
+[Term]
+id: CHEBI:59908 ! ecgoninium methyl ester(1+)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:60065 ! alpha-N-acetylneuraminosyl-(2->3)-beta-D-galactosyl-(1->4)-beta-D-glucosyl-(1<->1')-N-acylsphingosine(1-)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:60119 ! sphingosine 1-phosphate(1-)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:60377 ! CMP(2-)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:60471 ! dUDP(3-)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:60523 ! phosphatidylglycerol(1-)
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:60584 ! bicozamycin
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:33281 {is_inferred="true"} ! substance with antimicrobial agent application
+
+[Term]
+id: CHEBI:60761 ! floxuridine
+is_a: GOCHF:33281 {is_inferred="true"} ! substance with antimicrobial agent application
+is_a: GOCHF:35221 {is_inferred="true"} ! substance with antimetabolite biological role
+is_a: GOCHF:35610 {is_inferred="true"} ! substance with antineoplastic agent application
+
+[Term]
+id: CHEBI:60831 ! epothilone
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:60833 ! naptalam
+is_a: GOCHF:24527 {is_inferred="true"} ! substance with herbicide application
+
+[Term]
+id: CHEBI:60836 ! phytochelatin
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:38161 {is_inferred="true"} ! substance with chelator chemical property
+
+[Term]
+id: CHEBI:60943 ! 5-HETE
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:60951 ! flavonoid phytoalexin
+is_a: GOCHF:26115 {is_inferred="true"} ! substance with phytoalexin biological role
+
+[Term]
+id: CHEBI:60952 ! diterpene phytoalexin
+is_a: GOCHF:26115 {is_inferred="true"} ! substance with phytoalexin biological role
+
+[Term]
+id: CHEBI:60963 ! colanic acid
```

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+is_a: GOCHE:24432 {is_inferred="true"} ! substance with biological role
+
+[Term]
+id: CHEBI:609827 ! L-canavanine
+is_a: GOCHE:24852 {is_inferred="true"} ! substance with insecticide application
+
+[Term]
+id: CHEBI:60983 ! alkylphosphonate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:61049 ! tacrolimus (anhydrous)
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:61057 ! tacrolimus hydrate
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:24432 {is_inferred="true"} ! substance with biological role
+
+[Term]
+id: CHEBI:61085 ! 3-sulfinol-L-alanine(1-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:61197 ! phlobaphene
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:52208 {is_inferred="true"} ! substance with biophysical biological role
+
+[Term]
+id: CHEBI:6121 ! ketamine
+is_a: GOCHE:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+is_a: GOCHE:38867 {is_inferred="true"} ! substance with anaesthetic application
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+is_a: GOCHE:52210 {is_inferred="true"} ! substance with pharmacological biological
role
+is_a: GOCHE:64909 {is_inferred="true"} ! substance with poison biological role
+
+[Term]
+id: CHEBI:61338 ! bacillithiol
+is_a: GOCHE:23357 {is_inferred="true"} ! substance with cofactor biological role
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:61345 ! chrysobactin
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:26672 {is_inferred="true"} ! substance with siderophore chemical property
+
+[Term]
+id: CHEBI:61346 ! achromobactin
+is_a: GOCHE:26672 {is_inferred="true"} ! substance with siderophore chemical property
+
+[Term]
+id: CHEBI:61382 ! dITP(4-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:61402 ! ITP(4-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:61404 ! dATP(4-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:61509 ! N-acetyl-L-2-aminoadipate(2-)
```

+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:62081 ! 1,1-diunsubstituted alkanesulfonate
+is_a: GOCHE:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+
+[Term]
+id: CHEBI:62265 ! beta-D-Galp-(1->3)-[alpha-L-Fucp-(1->4)]-D-GlcpNAC
+is_a: GOCHE:24432 {is_inferred="true"} ! substance with biological role
+
+[Term]
+id: CHEBI:62457 ! (17Z)-protosta-17(20),24-dien-3beta-ol
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:62490 ! sphingomyelin d18:1(1+)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:62501 ! folate(2-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:62755 ! alpha-bergamotene
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:62805 ! isooctane
+is_a: GOCHE:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+is_a: GOCHE:64909 {is_inferred="true"} ! substance with poison biological role
+
+[Term]
+id: CHEBI:62981 ! 4-hydroxy-L-prolinate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:63070 ! beta-alaninate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:63163 ! L-cystine anion
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:63528 ! dTMP(2-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:63580 ! ribavirin
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:35221 {is_inferred="true"} ! substance with antimetabolite biological role
+is_a: GOCHE:59897 {is_inferred="true"} ! substance with reverse transcriptase
inhibitor chemical property
+
+[Term]
+id: CHEBI:63624 ! telbivudine
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:59897 {is_inferred="true"} ! substance with reverse transcriptase
inhibitor chemical property
+
+[Term]
+id: CHEBI:63709 ! bicyclogermacrene
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:63933 ! Aroclor 1254

```
+is_a: GOCHE:64909 {is_inferred="true"} ! substance with poison biological role
+
+[Term]
+id: CHEBI:63954 ! ionomycin
+is_a: GOCHE:24869 {is_inferred="true"} ! substance with ionophore biological role
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:64090 ! tert-butyl hydroperoxide
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:64161 ! asperthecin
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:52208 {is_inferred="true"} ! substance with biophysical biological role
+
+[Term]
+id: CHEBI:64228 ! tunicamycin A0
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+
+[Term]
+id: CHEBI:64243 ! monosodium L-glutamate
+is_a: GOCHE:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHE:52211 {is_inferred="true"} ! substance with physiological biological role
+
+[Term]
+id: CHEBI:64245 ! tunicamycin A1
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+
+[Term]
+id: CHEBI:64246 ! tunicamycin A2
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+
+[Term]
+id: CHEBI:64248 ! tunicamycin B1
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+
+[Term]
+id: CHEBI:64250 ! tunicamycin B2
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+
+[Term]
+id: CHEBI:64255 ! tunicamycin B3
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+
+[Term]
+id: CHEBI:64256 ! tunicamycin C1
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+
+[Term]
+id: CHEBI:64257 ! tunicamycin C2
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+
+[Term]
+id: CHEBI:64271 ! tunicamycin D1
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
```

+
+[Term]
+id: CHEBI:64272 ! tunicamycin D2
+is_a: GOCHF:33281 {is_inferred="true"} ! substance with antimicrobial agent application
+
+[Term]
+id: CHEBI:64372 ! emericellamide
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:64397 ! asperfuranone
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:35610 {is_inferred="true"} ! substance with antineoplastic agent application
+
+[Term]
+id: CHEBI:64398 ! monodictyphenone
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:64405 ! F-9775A
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:64409 ! F-9775B
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:64410 ! gerfelin
+is_a: GOCHF:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:64413 ! diorcinol
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:64415 ! violaceol I
+is_a: GOCHF:25442 {is_inferred="true"} ! substance with mycotoxin biological role
+
+[Term]
+id: CHEBI:64417 ! violaceol II
+is_a: GOCHF:25442 {is_inferred="true"} ! substance with mycotoxin biological role
+
+[Term]
+id: CHEBI:64419 ! meroterpenoid
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:64436 ! arugosin
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:64450 ! endocrocin
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:64454 ! (+)-kotanin
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]

+id: CHEBI:64465 ! demethylkotanin
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:64473 ! orlandin
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:64475 ! guaiacyl lignin
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:64476 ! syringal lignin
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:64497 ! cspyrone B1
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:64499 ! shamixanthone
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:64502 ! 1-heptadecene
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:26013 {is_inferred="true"} ! substance with pheromone biological role
+
+[Term]
+id: CHEBI:64503 ! nonadec-1-ene
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:64512 ! emericellin
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:64518 ! cordyol C
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+is_a: GOCHE:35610 {is_inferred="true"} ! substance with antineoplastic agent
application
+
+[Term]
+id: CHEBI:64522 ! averantin
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:64530 ! brevianamide F
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:64531 ! fumitremorgin B
+is_a: GOCHE:25442 {is_inferred="true"} ! substance with mycotoxin biological role
+
+[Term]
+id: CHEBI:64534 ! terrequinone A
+is_a: GOCHE:35610 {is_inferred="true"} ! substance with antineoplastic agent
application
+
+[Term]
+id: CHEBI:64535 ! pseurotin A
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:64543 ! fonsecin

+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:64598 ! 1-(3,5-dichloro-2,6-dihydroxy-4-methoxyphenyl)hexan-1-one
+is_a: GOCHE:33280 {is_inferred="true"} ! substance with molecular messenger biological role
+
+[Term]
+id: CHEBI:64610 ! tenocyclidine
+is_a: GOCHE:35471 {is_inferred="true"} ! substance with psychotropic drug application
+is_a: GOCHE:52210 {is_inferred="true"} ! substance with pharmacological biological role
+
+[Term]
+id: CHEBI:64624 ! microcin B17
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+
+[Term]
+id: CHEBI:64631 ! indoleacetic acid conjugate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:64648 ! enniatin
+is_a: GOCHE:24869 {is_inferred="true"} ! substance with ionophore biological role
+is_a: GOCHE:25442 {is_inferred="true"} ! substance with mycotoxin biological role
+
+[Term]
+id: CHEBI:64672 ! differentiation-inducing factor
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:64704 ! aspyridone A
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:64705 ! aspyridone B
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:6472 ! lincomycin
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:6495 ! lipoprotein
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:64974 ! (-)-microperfuranone
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:6498 ! lipoxin A4
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:6499 ! lipoxin B4
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:65004 ! (-)-secoisolariciresinol
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:35469 {is_inferred="true"} ! substance with antidepressant application
+is_a: GOCHE:50114 {is_inferred="true"} ! substance with estrogen hormone role
+
+[Term]
+id: CHEBI:65109 ! butirosin

```

+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:65172 ! ximelagatran
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOCHE:50249 {is_inferred="true"} ! substance with anticoagulant application
+
+[Term]
+id: CHEBI:65173 ! iloperidone
+is_a: GOCHE:35476 {is_inferred="true"} ! substance with antipsychotic drug application
+is_a: GOCHE:52210 {is_inferred="true"} ! substance with pharmacological biological
role
+
+[Term]
+id: CHEBI:65311 ! corticotropin-releasing hormone
+is_a: GOCHE:25512 {is_inferred="true"} ! substance with neurotransmitter biological
role
+
+[Term]
+id: CHEBI:65352 ! achromobactin free acid
+is_a: GOCHE:26672 {is_inferred="true"} ! substance with siderophore chemical property
+
+[Term]
+id: CHEBI:65932 ! funalenone
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:6650 ! malic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:33232 {is_inferred="true"} ! substance with application
+is_a: GOCHE:52211 {is_inferred="true"} ! substance with physiological biological role
+
+[Term]
+id: CHEBI:66952 ! homocysteinate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:66955 ! olivetolic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:66960 ! olivetol
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:67009 ! S-adenosyl-L-homocysteinate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:67010 ! L-kynureninate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role

[Term]
-id: CHEBI:15377 ! water
-is_a: GOCHE:37527 {is_inferred="true"} ! substance with acid chemical property
+id: CHEBI:67012 ! L-dopa(1-)
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role

[Term]
-id: CHEBI:16109 ! propane-1,3-diol
-is_a: GOCHE:37527 {is_inferred="true"} ! substance with acid chemical property
+id: CHEBI:67040 ! S-adenosyl-L-methioninate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role

```

[Term]

-id: CHEBI:17790 ! methanol
-is_a: GOCHF:37527 {is_inferred="true"} ! substance with acid chemical property
+id: CHEBI:67153 ! (+)-larreatricin
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:33281 {is_inferred="true"} ! substance with antimicrobial agent application

[Term]

-id: CHEBI:17824 ! propan-2-ol
-is_a: GOCHF:37527 {is_inferred="true"} ! substance with acid chemical property
+id: CHEBI:67154 ! (+)-3'-hydroxylarreatricin
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role

[Term]

-id: CHEBI:17843 ! transfer RNA
-is_a: SO:0000655 {is_inferred="true"} ! ncRNA
+id: CHEBI:67194 ! cannabinoid
+is_a: GOCHF:48705 {is_inferred="true"} ! substance with agonist biological role

[Term]

-id: CHEBI:18111 ! ribosomal RNA
-is_a: SO:0000655 {is_inferred="true"} ! ncRNA
+id: CHEBI:67245 ! (-)-pinoresinol
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role

[Term]

-id: CHEBI:18157 ! aerobactin
-is_a: GOCHF:24028 {is_inferred="true"} ! substance with iron(3+) chelator role
+id: CHEBI:67246 ! (+)-lariciresinol
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:33281 {is_inferred="true"} ! substance with antimicrobial agent application

[Term]

-id: CHEBI:18917 ! 1,3-dichloropropan-2-ol
-is_a: GOCHF:37527 {is_inferred="true"} ! substance with acid chemical property
+id: CHEBI:6801 ! metformin
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property

[Term]

-id: CHEBI:24432 ! biological role
-is_a: BFO:0000023 {is_inferred="true"} ! role
+id: CHEBI:6809 ! methamphetamine
+is_a: GOCHF:35471 {is_inferred="true"} ! substance with psychotropic drug application
+is_a: GOCHF:35703 {is_inferred="true"} ! substance with xenobiotic biological role
+is_a: GOCHF:51086 {is_inferred="true"} ! substance with chemical property
+is_a: GOCHF:64909 {is_inferred="true"} ! substance with poison biological role

[Term]

-id: CHEBI:24833 ! oxoacid
-is_a: GOCHF:37527 {is_inferred="true"} ! substance with acid chemical property
+id: CHEBI:68487 ! strigolactone
+is_a: GOCHF:37848 {is_inferred="true"} ! substance with phytohormone biological role

[Term]

-id: CHEBI:25427 ! mugineic acids
-is_a: GOCHF:24028 {is_inferred="true"} ! substance with iron(3+) chelator role
+id: CHEBI:68508 ! diethyl maleate
+is_a: GOCHF:24432 {is_inferred="true"} ! substance with biological role

[Term]

-id: CHEBI:25812 ! ozone
-is_a: GOCHF:37527 {is_inferred="true"} ! substance with acid chemical property
+id: CHEBI:68624 ! cis-abienol

+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role

[Term]

-id: CHEBI:28831 ! propan-1-ol

-is_a: GOCHE:37527 {is_inferred="true"} ! substance with acid chemical property

+id: CHEBI:68837 ! pectate

+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role

[Term]

-id: CHEBI:28855 ! enterobactin

-is_a: GOCHE:24028 {is_inferred="true"} ! substance with iron(3+) chelator role

+id: CHEBI:68851 ! poly(glycerol phosphate) anion

+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role

[Term]

-id: CHEBI:28885 ! butan-1-ol

-is_a: GOCHE:37527 {is_inferred="true"} ! substance with acid chemical property

+id: CHEBI:6887 ! methylphenidate

+is_a: GOCHE:35471 {is_inferred="true"} ! substance with psychotropic drug application

+is_a: GOCHE:52210 {is_inferred="true"} ! substance with pharmacological biological

role

[Term]

-id: CHEBI:29264 ! tRNA(Sec)

-is_a: SO:0000253 {is_inferred="true"} ! tRNA

+id: CHEBI:69136 ! latrunculin A

+is_a: GOCHE:27026 {is_inferred="true"} ! substance with toxin biological role

+is_a: GOCHE:35222 {is_inferred="true"} ! substance with inhibitor chemical property

[Term]

-id: CHEBI:29669 ! pyochelin

-is_a: GOCHE:24028 {is_inferred="true"} ! substance with iron(3+) chelator role

+id: CHEBI:6923 ! miconazole

+is_a: GOCHE:35610 {is_inferred="true"} ! substance with antineoplastic agent application

+is_a: GOCHE:52210 {is_inferred="true"} ! substance with pharmacological biological role

[Term]

-id: CHEBI:33232 ! application

-is_a: BFO:0000023 {is_inferred="true"} ! role

+id: CHEBI:70723 ! reversine

+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property

+is_a: GOCHE:35610 {is_inferred="true"} ! substance with antineoplastic agent application

+is_a: GOCHE:52210 {is_inferred="true"} ! substance with pharmacological biological role

[Term]

-id: CHEBI:33405 ! hydracid

-is_a: GOCHE:37527 {is_inferred="true"} ! substance with acid chemical property

+id: CHEBI:70726 ! hesperadin

+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property

[Term]

-id: CHEBI:33699 ! messenger RNA

-is_a: SO:0000233 {is_inferred="true"} ! mature_transcript

+id: CHEBI:70773 ! capsazepine

+is_a: GOCHE:52210 {is_inferred="true"} ! substance with pharmacological biological role

[Term]

-id: CHEBI:33837 ! conjugated protein

-is_a: PR:000000001 {is_inferred="true"} ! protein

+id: CHEBI:70778 ! GW 7647

+is_a: GOCHE:48705 {is_inferred="true"} ! substance with agonist biological role

[Term]

-id: CHEBI:36080 ! protein

-is_a: PR:000018263 {is_inferred="true"} ! amino acid chain

+id: CHEBI:70816 ! pentalenolactone

+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property

+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role

+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent application

[Term]

-id: CHEBI:38150 ! enterobactin(6-)

-is_a: GOCHE:24028 {is_inferred="true"} ! substance with iron(3+) chelator role

+id: CHEBI:71502 ! beta-D-GalNAc-(1->4)-[alpha-Neu5Ac-(2->3)]-beta-D-Gal-(1->4)-beta-D-Glc-(1<->1')-Cer(1-)

+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role

[Term]

-id: CHEBI:38560 ! simple protein

-is_a: PR:000000001 {is_inferred="true"} ! protein

+id: CHEBI:71560 ! (25S)-Delta(4)-dafachronic acid

+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role

[Term]

-id: CHEBI:41189 ! butane-1,4-diol

-is_a: GOCHE:37527 {is_inferred="true"} ! substance with acid chemical property

+id: CHEBI:71948 ! tyrocidine B

+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role

[Term]

-id: CHEBI:50906 ! role

-is_a: BFO:0000017 {is_inferred="true"} ! realizable entity

+id: CHEBI:71949 ! tyrocidine C

+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role

[Term]

-id: CHEBI:51086 ! chemical role

-is_a: BFO:0000023 {is_inferred="true"} ! role

+id: CHEBI:71950 ! tyrocidine D

+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role

[Term]

-id: CHEBI:61345 ! chrysobactin

-is_a: GOCHE:24028 {is_inferred="true"} ! substance with iron(3+) chelator role

+id: CHEBI:72564 ! temozolomide

+is_a: GOCHE:24432 {is_inferred="true"} ! substance with biological role

+is_a: GOCHE:35610 {is_inferred="true"} ! substance with antineoplastic agent application

[Term]

-id: CHEBI:61346 ! achromobactin

-is_a: GOCHE:24028 {is_inferred="true"} ! substance with iron(3+) chelator role

+id: CHEBI:72750 ! neosartoricin

+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application

+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role

[Term]

-id: CHEBI:65352 ! achromobactin free acid

-is_a: GOCHE:24028 {is_inferred="true"} ! substance with iron(3+) chelator role

+id: CHEBI:72765 ! verruculogen

+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application

+is_a: GOCHE:25442 {is_inferred="true"} ! substance with mycotoxin biological role

+is_a: GOCHE:38632 {is_inferred="true"} ! substance with membrane transport modulator biological role

+is_a: GOCHE:52210 {is_inferred="true"} ! substance with pharmacological biological

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role
+
+[Term]
+id: CHEBI:72804 ! HOTrE
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:73688 ! Ac-Asp-Glu
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:73693 ! ketone body
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:73772 ! K antigen
+is_a: GOCHF:24432 {is_inferred="true"} ! substance with biological role
+
+[Term]
+id: CHEBI:73774 ! enterobacterial common antigen
+is_a: GOCHF:24432 {is_inferred="true"} ! substance with biological role

[Term]
id: CHEBI:74252 ! rhizobactin 1021
-is_a: GOCHF:24028 {is_inferred="true"} ! substance with iron(3+) chelator role
+is_a: GOCHF:26672 {is_inferred="true"} ! substance with siderophore chemical property
+
+[Term]
+id: CHEBI:74422 ! 4'-demethylepipodophyllotoxin
+is_a: GOCHF:35610 {is_inferred="true"} ! substance with antineoplastic agent
application
+
+[Term]
+id: CHEBI:7489 ! neamine
+is_a: GOCHF:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+
+[Term]
+id: CHEBI:7508 ! framycetin
+is_a: GOCHF:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+
+[Term]
+id: CHEBI:75431 ! ghrelin
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHF:35610 {is_inferred="true"} ! substance with antineoplastic agent
application
+
+[Term]
+id: CHEBI:75525 ! D-galactopyranuronate
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:7719 ! ochratoxin A
+is_a: GOCHF:25442 {is_inferred="true"} ! substance with mycotoxin biological role
+is_a: GOCHF:38632 {is_inferred="true"} ! substance with membrane transport modulator
biological role
+
+[Term]
+id: CHEBI:77198 ! 6-sulfoquinovose
+is_a: GOCHF:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:7735 ! olanzapine
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+is_a: GOCHE:35476 {is_inferred="true"} ! substance with antipsychotic drug application
+
+[Term]
+id: CHEBI:77444 ! 1-undecene
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:77659 ! emodin(1-)
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:35610 {is_inferred="true"} ! substance with antineoplastic agent
application

  [Term]
  id: CHEBI:77805 ! enterobactin(1-)
  -is_a: GOCHE:24028 {is_inferred="true"} ! substance with iron(3+) chelator role
  +is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
  +is_a: GOCHE:26672 {is_inferred="true"} ! substance with siderophore chemical property
  +
  +[Term]
  +id: CHEBI:77932 ! tetracycline zwitterion
  +is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
  +is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
  property
  +is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent
  application
  +
  +[Term]
  +id: CHEBI:78320 ! 2-hydroxypropanoic acid
  +is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
  +
  +[Term]
  +id: CHEBI:78630 ! 9-cis-retinoate
  +is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
  +is_a: GOCHE:35610 {is_inferred="true"} ! substance with antineoplastic agent
  application
  +is_a: GOCHE:48705 {is_inferred="true"} ! substance with agonist biological role
  +
  +[Term]
  +id: CHEBI:78679 ! D-ribose 5-phosphate
  +is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
  +
  +[Term]
  +id: CHEBI:78682 ! D-fructose 1,6-bisphosphate
  +is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
  +
  +[Term]
  +id: CHEBI:78697 ! D-fructose 6-phosphate
  +is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
  +
  +[Term]
  +id: CHEBI:78699 ! Delta(7)-dafachronic acid
  +is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
  +
  +[Term]
  +id: CHEBI:7872 ! oxytocin
  +is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
  +
  +[Term]
  +id: CHEBI:78741 ! oxidopamine
  +is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
  +is_a: GOCHE:64909 {is_inferred="true"} ! substance with poison biological role
  +
  +[Term]
  +id: CHEBI:78802 ! diarylheptanoid
  +is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role

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+
+[Term]
+id: CHEBI:78812 ! ascr#2
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:26013 {is_inferred="true"} ! substance with pheromone biological role
+
+[Term]
+id: CHEBI:78903 ! mannoprotein
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:7896 ! hexadecanoate
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:79057 ! hercynylcysteine sulfoxide
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:79070 ! hercynylselenocysteine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:79071 ! selenoneine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:51086 {is_inferred="true"} ! substance with chemical property
+
+[Term]
+id: CHEBI:7916 ! pantothenic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:79316 ! glucosinolic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:7934 ! paromomycin
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+
+[Term]
+id: CHEBI:8028 ! perphenazine
+is_a: GOCHE:35476 {is_inferred="true"} ! substance with antipsychotic drug application
+is_a: GOCHE:52210 {is_inferred="true"} ! substance with pharmacological biological role
+
+[Term]
+id: CHEBI:8075 ! phenoxyacetic acid
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:26155 {is_inferred="true"} ! substance with plant growth regulator biological role
+
+[Term]
+id: CHEBI:82707 ! ergothioneine thione form
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:8273 ! plumbagin
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GOCHE:35610 {is_inferred="true"} ! substance with antineoplastic agent application
+is_a: GOCHE:50249 {is_inferred="true"} ! substance with anticoagulant application
+
+[Term]
+id: CHEBI:82803 ! opine
+is_a: GOCHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]

+id: CHEBI:86323 ! conazole antifungal agent
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent application
+is_a: GOCHE:35222 {is_inferred="true"} ! substance with inhibitor chemical property
+is_a: GOCHE:52206 {is_inferred="true"} ! substance with biochemical biological role
+
+[Term]
+id: CHEBI:86420 ! imidazole antifungal agent
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent application
+
+[Term]
+id: CHEBI:86426 ! triazole antifungal agent
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent application
+
+[Term]
+id: CHEBI:86478 ! antibiotic antifungal agent
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent application
+
+[Term]
+id: CHEBI:86991 ! (R)-fluoxetine
+is_a: GOCHE:35469 {is_inferred="true"} ! substance with antidepressant application
+is_a: GOCHE:52210 {is_inferred="true"} ! substance with pharmacological biological role
+
+[Term]
+id: CHEBI:86992 ! (S)-fluoxetine
+is_a: GOCHE:35469 {is_inferred="true"} ! substance with antidepressant application
+is_a: GOCHE:52210 {is_inferred="true"} ! substance with pharmacological biological role
+
+[Term]
+id: CHEBI:87034 ! aromatic fungicide
+is_a: GOCHE:24127 {is_inferred="true"} ! substance with fungicide application
+
+[Term]
+id: CHEBI:87036 ! benzimidazole fungicide
+is_a: GOCHE:24127 {is_inferred="true"} ! substance with fungicide application
+
+[Term]
+id: CHEBI:87061 ! carbamate fungicide
+is_a: GOCHE:24127 {is_inferred="true"} ! substance with fungicide application
+
+[Term]
+id: CHEBI:87068 ! imidazole fungicide
+is_a: GOCHE:24127 {is_inferred="true"} ! substance with fungicide application
+
+[Term]
+id: CHEBI:87069 ! imidazole antifungal drug
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+
+[Term]
+id: CHEBI:8707 ! quetiapine
+is_a: GOCHE:35476 {is_inferred="true"} ! substance with antipsychotic drug application
+is_a: GOCHE:52210 {is_inferred="true"} ! substance with pharmacological biological role
+
+[Term]
+id: CHEBI:87071 ! conazole antifungal drug
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+
+[Term]
+id: CHEBI:87101 ! triazole antifungal drug
+is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+

+ [Term]
+id: CHEBI:87113 ! antibiotic antifungal drug
+is_a: GOACHE:23888 {is_inferred="true"} ! substance with drug application
+

+ [Term]
+id: CHEBI:87114 ! antibiotic fungicide
+is_a: GOACHE:24127 {is_inferred="true"} ! substance with fungicide application
+

+ [Term]
+id: CHEBI:87195 ! dicarboximide fungicide
+is_a: GOACHE:24127 {is_inferred="true"} ! substance with fungicide application
+

+ [Term]
+id: CHEBI:87200 ! dicarboximide antifungal agent
+is_a: GOACHE:33281 {is_inferred="true"} ! substance with antimicrobial agent application
+

+ [Term]
+id: CHEBI:87228 ! sulfonamide antibiotic
+is_a: GOACHE:33281 {is_inferred="true"} ! substance with antimicrobial agent application
+

+ [Term]
+id: CHEBI:87631 ! statin
+is_a: GOACHE:35664 {is_inferred="true"} ! substance with hydroxymethylglutaryl-CoA reductase inhibitor application
+

+ [Term]
+id: CHEBI:87632 ! statin (naturally occurring)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:88184 ! metal allergen
+is_a: GOACHE:24432 {is_inferred="true"} ! substance with biological role
+

+ [Term]
+id: CHEBI:88186 ! metal cation allergen
+is_a: GOACHE:24432 {is_inferred="true"} ! substance with biological role
+

+ [Term]
+id: CHEBI:8871 ! risperidone
+is_a: GOACHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical property
+is_a: GOACHE:35476 {is_inferred="true"} ! substance with antipsychotic drug application
+is_a: GOACHE:52210 {is_inferred="true"} ! substance with pharmacological biological role
+

+ [Term]
+id: CHEBI:8984 ! sodium dodecyl sulfate
+is_a: GOACHE:33232 {is_inferred="true"} ! substance with application
+is_a: GOACHE:35195 {is_inferred="true"} ! substance with surfactant chemical property
+

+ [Term]
+id: CHEBI:90396 ! (3,5-dichloro-2,4,6-trihydroxyphenyl)hexan-1-one
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:90822 ! 5-HPETE(1-)
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:9093 ! selenocysteine
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role
+

+ [Term]
+id: CHEBI:91268 ! 5-HPETE
+is_a: GOACHE:25212 {is_inferred="true"} ! substance with metabolite biological role

```

+
+[Term]
+id: CHEBI:9168 ! sirolimus
+is_a: GO:0000000 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GO:0000000 {is_inferred="true"} ! substance with metabolite biological role
+is_a: GO:0000000 {is_inferred="true"} ! substance with antineoplastic agent
application
+
+[Term]
+id: CHEBI:9337 ! sulfathiazole
+is_a: GO:0000000 {is_inferred="true"} ! substance with drug application
+is_a: GO:0000000 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GO:0000000 {is_inferred="true"} ! substance with xenobiotic biological role
+
+[Term]
+id: CHEBI:9398 ! tamsulosin
+is_a: GO:0000000 {is_inferred="true"} ! substance with antineoplastic agent
application
+is_a: GO:0000000 {is_inferred="true"} ! substance with pharmacological biological
role
+
+[Term]
+id: CHEBI:9516 ! thapsigargin
+is_a: GO:0000000 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GO:0000000 {is_inferred="true"} ! substance with membrane transport modulator
biological role
+
+[Term]
+id: CHEBI:9532 ! thiamine(1+) diphosphate
+is_a: GO:0000000 {is_inferred="true"} ! substance with metabolite biological role
+
+[Term]
+id: CHEBI:9588 ! ticlopidine
+is_a: GO:0000000 {is_inferred="true"} ! substance with anticoagulant application
+is_a: GO:0000000 {is_inferred="true"} ! substance with platelet aggregation inhibitor
application
+is_a: GO:0000000 {is_inferred="true"} ! substance with pharmacological biological
role
+
+[Term]
+id: CHEBI:9688 ! trichodermin
+is_a: GO:0000000 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property
+is_a: GO:0000000 {is_inferred="true"} ! substance with antimicrobial agent
application
+is_a: GO:0000000 {is_inferred="true"} ! substance with antineoplastic agent
application

[Term]
id: CHEBI:9973 ! vibriobactin
-is_a: GO:0000000 {is_inferred="true"} ! substance with iron(3+) chelator role
+is_a: GO:0000000 {is_inferred="true"} ! substance with siderophore chemical property

[Term]
id: FAO:0000043 ! conidiophore
@@ -274,6 +7306,7 @@
id: GO:0000064 ! L-ornithine transmembrane transporter activity
is_a: GO:0008324 {is_inferred="true"} ! cation transmembrane transporter activity
is_a: GO:0015179 {is_inferred="true"} ! L-amino acid transmembrane transporter
activity
+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity

[Term]
id: GO:0000066 ! mitochondrial ornithine transport

```

@@ -309,6 +7342,7 @@

[Term]

id: GO:0000095 ! S-adenosyl-L-methionine transmembrane transporter activity
+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity
is_a: GO:1901682 {is_inferred="true"} ! sulfur compound transmembrane transporter activity

[Term]

@@ -534,6 +7568,7 @@

[Term]

id: GO:0000255 ! allantoin metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0043603 {is_inferred="true"} ! cellular amide metabolic process
is_a: GO:0046483 {is_inferred="true"} ! heterocycle metabolic process
is_a: GO:1901360 {is_inferred="true"} ! organic cyclic compound metabolic process
@@ -542,6 +7577,7 @@

[Term]

id: GO:0000256 ! allantoin catabolic process
is_a: GO:0000255 {is_inferred="true"} ! allantoin metabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:0046700 {is_inferred="true"} ! heterocycle catabolic process
is_a: GO:1901361 {is_inferred="true"} ! organic cyclic compound catabolic process
is_a: GO:1901565 {is_inferred="true"} ! organonitrogen compound catabolic process
@@ -606,10 +7642,12 @@

[Term]

id: GO:0000296 ! spermine transport
is_a: GO:0015696 {is_inferred="true"} ! ammonium transport
+is_a: GO:0015893 {is_inferred="true"} ! drug transport

[Term]

id: GO:0000297 ! spermine transmembrane transporter activity
is_a: GO:0008519 {is_inferred="true"} ! ammonium transmembrane transporter activity
+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity

[Term]

id: GO:0000302 ! response to reactive oxygen species
@@ -622,7 +7660,9 @@

[Term]

id: GO:0000304 ! response to singlet oxygen
is_a: GO:0000302 {is_inferred="true"} ! response to reactive oxygen species
+is_a: GO:0007584 {is_inferred="true"} ! response to nutrient
is_a: GO:0010035 {is_inferred="true"} ! response to inorganic substance
+is_a: GO:0042493 {is_inferred="true"} ! response to drug

[Term]

id: GO:0000305 ! response to oxygen radical
@@ -1020,6 +8060,7 @@

[Term]

id: GO:0000822 ! inositol hexakisphosphate binding
+is_a: GO:0008144 {is_inferred="true"} ! drug binding
is_a: GO:0043168 {is_inferred="true"} ! anion binding

[Term]

@@ -1104,6 +8145,7 @@

id: GO:0000954 ! methionine catabolic process to 3-methylthiopropionate
is_a: GO:0006633 {is_inferred="true"} ! fatty acid biosynthetic process
is_a: GO:0009087 {is_inferred="true"} ! methionine catabolic process
+is_a: GO:0009403 {is_inferred="true"} ! toxin biosynthetic process
is_a: GO:0044272 {is_inferred="true"} ! sulfur compound biosynthetic process

[Term]

@@ -1453,10 +8495,15 @@

is_a: GO:0055082 {is_inferred="true"} ! cellular chemical homeostasis

```
[Term]
+id: GO:0001692 ! histamine metabolic process
+is_a: GO:0042133 {is_inferred="true"} ! neurotransmitter metabolic process
+
+[Term]
id: GO:0001694 ! histamine biosynthetic process
is_a: GO:0001692 {is_inferred="true"} ! histamine metabolic process
is_a: GO:0018130 {is_inferred="true"} ! heterocycle biosynthetic process
is_a: GO:0019438 {is_inferred="true"} ! aromatic compound biosynthetic process
+is_a: GO:0042136 {is_inferred="true"} ! neurotransmitter biosynthetic process
is_a: GO:1901362 {is_inferred="true"} ! organic cyclic compound biosynthetic process

[Term]
@@ -1473,6 +8520,14 @@
is_a: GO:0051240 {is_inferred="true"} ! positive regulation of multicellular
organismal process

[Term]
+id: GO:0001761 ! beta-alanine transmembrane transporter activity
+is_a: GO:0005326 {is_inferred="true"} ! neurotransmitter transporter activity
+
+[Term]
+id: GO:0001762 ! beta-alanine transport
+is_a: GO:0006836 {is_inferred="true"} ! neurotransmitter transport
+
+[Term]
id: GO:0001765 ! membrane raft assembly
is_a: GO:0071709 {is_inferred="true"} ! membrane assembly

@@ -1878,7 +8933,10 @@

[Term]
id: GO:0001975 ! response to amphetamine
+is_a: GO:0009410 {is_inferred="true"} ! response to xenobiotic stimulus
+is_a: GO:0009636 {is_inferred="true"} ! response to toxic substance
is_a: GO:0014075 {is_inferred="true"} ! response to amine
+is_a: GO:0097366 {is_inferred="true"} ! response to bronchodilator

[Term]
id: GO:0001985 ! negative regulation of heart rate involved in baroreceptor response
to increased systemic arterial blood pressure
@@ -1890,6 +8948,7 @@

[Term]
id: GO:0002005 ! angiotensin catabolic process in blood
+is_a: GO:0042447 {is_inferred="true"} ! hormone catabolic process
is_a: GO:0043171 {is_inferred="true"} ! peptide catabolic process

[Term]
@@ -1898,17 +8957,23 @@

[Term]
id: GO:0002036 ! regulation of L-glutamate transport
+is_a: GO:0051588 {is_inferred="true"} ! regulation of neurotransmitter transport
is_a: GO:0051955 {is_inferred="true"} ! regulation of amino acid transport
+is_a: GO:2001023 {is_inferred="true"} ! regulation of response to drug

[Term]
id: GO:0002037 ! negative regulation of L-glutamate transport
is_a: GO:0002036 {is_inferred="true"} ! regulation of L-glutamate transport
+is_a: GO:0051589 {is_inferred="true"} ! negative regulation of neurotransmitter
transport
is_a: GO:0051956 {is_inferred="true"} ! negative regulation of amino acid transport
+is_a: GO:2001024 {is_inferred="true"} ! negative regulation of response to drug

[Term]
id: GO:0002038 ! positive regulation of L-glutamate transport
```

is_a: GO:0002036 {is_inferred="true"} ! regulation of L-glutamate transport
+is_a: GO:0051590 {is_inferred="true"} ! positive regulation of neurotransmitter transport
is_a: GO:0051957 {is_inferred="true"} ! positive regulation of amino acid transport
+is_a: GO:2001025 {is_inferred="true"} ! positive regulation of response to drug

[Term]

id: GO:0002044 ! blood vessel endothelial cell migration involved in intussusceptive angiogenesis

@@ -1951,6 +9016,7 @@

[Term]

id: GO:0002058 ! uracil binding

is_a: GO:0002061 {is_inferred="true"} ! pyrimidine nucleobase binding

+is_a: GO:0008144 {is_inferred="true"} ! drug binding

[Term]

id: GO:0002059 ! thymine binding

@@ -2382,6 +9448,7 @@

[Term]

id: GO:0002392 ! platelet activating factor secretion

is_a: GO:0015697 {is_inferred="true"} ! quaternary ammonium group transport

+is_a: GO:0015893 {is_inferred="true"} ! drug transport

is_a: GO:0015914 {is_inferred="true"} ! phospholipid transport

[Term]

@@ -4087,6 +11154,10 @@

is_a: GO:0009888 {is_inferred="true"} ! tissue development

[Term]

+id: GO:0002936 ! bradykinin biosynthetic process

+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process

+

+[Term]

id: GO:0003003 ! follicular fluid formation in ovarian follicle antrum involved in fused antrum stage

is_a: GO:0001548 {is_inferred="true"} ! follicular fluid formation in ovarian follicle antrum

@@ -4725,6 +11796,14 @@

is_a: GO:0038023 {is_inferred="true"} ! signaling receptor activity

[Term]

+id: GO:0004965 ! G-protein coupled GABA receptor activity

+is_a: GO:0099528 {is_inferred="true"} ! G-protein coupled neurotransmitter receptor activity

+

+[Term]

+id: GO:0004969 ! histamine receptor activity

+is_a: GO:0099528 {is_inferred="true"} ! G-protein coupled neurotransmitter receptor activity

+

+[Term]

id: GO:0004971 ! AMPA glutamate receptor activity

is_a: GO:0099094 {is_inferred="true"} ! ligand-gated cation channel activity

@@ -4734,8 +11813,17 @@

is_a: GO:0099094 {is_inferred="true"} ! ligand-gated cation channel activity

[Term]

+id: GO:0004979 ! beta-endorphin receptor activity

+is_a: GO:0099528 {is_inferred="true"} ! G-protein coupled neurotransmitter receptor activity

+

+[Term]

+id: GO:0004989 ! octopamine receptor activity

+is_a: GO:0099528 {is_inferred="true"} ! G-protein coupled neurotransmitter receptor activity

+

+ [Term]

id: GO:0004993 ! G-protein coupled serotonin receptor activity
is_a: GO:0008227 {is_inferred="true"} ! G-protein coupled amine receptor activity
+is_a: GO:0099528 {is_inferred="true"} ! G-protein coupled neurotransmitter receptor activity
is_a: GO:0099589 {is_inferred="true"} ! serotonin receptor activity

[Term]

@@ -4860,17 +11948,20 @@

id: GO:0005277 ! acetylcholine transmembrane transporter activity
is_a: GO:0008519 {is_inferred="true"} ! ammonium transmembrane transporter activity
is_a: GO:0015101 {is_inferred="true"} ! organic cation transmembrane transporter activity
+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity
is_a: GO:1901375 {is_inferred="true"} ! acetate ester transmembrane transporter activity

[Term]

id: GO:0005278 ! acetylcholine:proton antiporter activity
is_a: GO:0005277 {is_inferred="true"} ! acetylcholine transmembrane transporter activity
+is_a: GO:0015307 {is_inferred="true"} ! drug:proton antiporter activity
is_a: GO:0015491 {is_inferred="true"} ! cation:cation antiporter activity

[Term]

id: GO:0005290 ! L-histidine transmembrane transporter activity
is_a: GO:0008324 {is_inferred="true"} ! cation transmembrane transporter activity
is_a: GO:0015179 {is_inferred="true"} ! L-amino acid transmembrane transporter activity
+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity
is_a: GO:1901474 {is_inferred="true"} ! azole transmembrane transporter activity

[Term]

@@ -4882,20 +11973,24 @@

is_a: GO:0008324 {is_inferred="true"} ! cation transmembrane transporter activity
is_a: GO:0015173 {is_inferred="true"} ! aromatic amino acid transmembrane transporter activity
is_a: GO:0015179 {is_inferred="true"} ! L-amino acid transmembrane transporter activity
+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity

[Term]

id: GO:0005304 ! L-valine transmembrane transporter activity
is_a: GO:0008324 {is_inferred="true"} ! cation transmembrane transporter activity
is_a: GO:0015179 {is_inferred="true"} ! L-amino acid transmembrane transporter activity
+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity
is_a: GO:0015658 {is_inferred="true"} ! branched-chain amino acid transmembrane transporter activity

[Term]

id: GO:0005307 ! choline:sodium symporter activity
+is_a: GO:0005328 {is_inferred="true"} ! neurotransmitter:sodium symporter activity
is_a: GO:0015220 {is_inferred="true"} ! choline transmembrane transporter activity

[Term]

id: GO:0005308 ! creatine transmembrane transporter activity
is_a: GO:0015171 {is_inferred="true"} ! amino acid transmembrane transporter activity
+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity
is_a: GO:0072349 {is_inferred="true"} ! modified amino acid transmembrane transporter activity

[Term]

@@ -4910,7 +12005,9 @@

[Term]

id: GO:0005313 ! L-glutamate transmembrane transporter activity

is_a: GO:0005310 {is_inferred="true"} ! dicarboxylic acid transmembrane transporter activity
+is_a: GO:0005326 {is_inferred="true"} ! neurotransmitter transporter activity
is_a: GO:0015179 {is_inferred="true"} ! L-amino acid transmembrane transporter activity
+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity

[Term]

id: GO:0005315 ! inorganic phosphate transmembrane transporter activity
@@ -4932,10 +12029,12 @@
id: GO:0005329 ! dopamine transmembrane transporter activity
is_a: GO:0008504 {is_inferred="true"} ! monoamine transmembrane transporter activity
is_a: GO:0008519 {is_inferred="true"} ! ammonium transmembrane transporter activity
+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity
is_a: GO:1901618 {is_inferred="true"} ! organic hydroxy compound transmembrane transporter activity

[Term]

id: GO:0005332 ! gamma-aminobutyric acid:sodium symporter activity
+is_a: GO:0005328 {is_inferred="true"} ! neurotransmitter:sodium symporter activity
is_a: GO:0015296 {is_inferred="true"} ! anion:cation symporter activity
is_a: GO:0015355 {is_inferred="true"} ! secondary active monocarboxylate transmembrane transporter activity

@@ -4981,6 +12080,7 @@

is_a: GO:0000295 {is_inferred="true"} ! adenine nucleotide transmembrane transporter activity
is_a: GO:0005346 {is_inferred="true"} ! purine ribonucleotide transmembrane transporter activity
is_a: GO:0008514 {is_inferred="true"} ! organic anion transmembrane transporter activity
+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity

[Term]

id: GO:0005350 ! pyrimidine nucleobase transmembrane transporter activity
@@ -5025,7 +12125,9 @@

[Term]

id: GO:0005368 ! taurine transmembrane transporter activity
+is_a: GO:0005342 {is_inferred="true"} ! organic acid transmembrane transporter activity
is_a: GO:0008514 {is_inferred="true"} ! organic anion transmembrane transporter activity
+is_a: GO:0042910 {is_inferred="true"} ! xenobiotic transmembrane transporter activity
is_a: GO:1901682 {is_inferred="true"} ! sulfur compound transmembrane transporter activity

[Term]

@@ -5141,6 +12243,7 @@

[Term]

id: GO:0005524 ! ATP binding
+is_a: GO:0008144 {is_inferred="true"} ! drug binding
is_a: GO:0032559 {is_inferred="true"} ! adenylyl ribonucleotide binding
is_a: GO:0035639 {is_inferred="true"} ! purine ribonucleoside triphosphate binding

@@ -5178,6 +12281,7 @@

[Term]

id: GO:0005542 ! folic acid binding
+is_a: GO:0008144 {is_inferred="true"} ! drug binding
is_a: GO:0031406 {is_inferred="true"} ! carboxylic acid binding
is_a: GO:0033218 {is_inferred="true"} ! amide binding
is_a: GO:0072341 {is_inferred="true"} ! modified amino acid binding
@@ -5802,6 +12906,7 @@

[Term]

id: GO:0006030 ! chitin metabolic process

is_a: GO:0006022 {is_inferred="true"} ! aminoglycan metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:1901071 {is_inferred="true"} ! glucosamine-containing compound metabolic process

[Term]

@@ -5814,6 +12919,7 @@

id: GO:0006032 ! chitin catabolic process
is_a: GO:0006026 {is_inferred="true"} ! aminoglycan catabolic process
is_a: GO:0006030 {is_inferred="true"} ! chitin metabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:1901072 {is_inferred="true"} ! glucosamine-containing compound catabolic process

[Term]

@@ -5887,6 +12993,7 @@

[Term]

id: GO:0006054 ! N-acetylneuraminate metabolic process
is_a: GO:0006040 {is_inferred="true"} ! amino sugar metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0019752 {is_inferred="true"} ! carboxylic acid metabolic process

[Term]

@@ -5935,12 +13042,14 @@

[Term]

id: GO:0006067 ! ethanol metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0034308 {is_inferred="true"} ! primary alcohol metabolic process

[Term]

id: GO:0006068 ! ethanol catabolic process
is_a: GO:0006067 {is_inferred="true"} ! ethanol metabolic process
is_a: GO:0034310 {is_inferred="true"} ! primary alcohol catabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process

[Term]

id: GO:0006070 ! octanol metabolic process

@@ -6048,6 +13157,7 @@

[Term]

id: GO:0006103 ! 2-oxoglutarate metabolic process
is_a: GO:0043648 {is_inferred="true"} ! dicarboxylic acid metabolic process
+is_a: GO:0051186 {is_inferred="true"} ! cofactor metabolic process

[Term]

id: GO:0006104 ! succinyl-CoA metabolic process

@@ -6055,6 +13165,7 @@

[Term]

id: GO:0006105 ! succinate metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0043648 {is_inferred="true"} ! dicarboxylic acid metabolic process

[Term]

@@ -6164,6 +13275,7 @@

[Term]

id: GO:0006154 ! adenosine catabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:0046085 {is_inferred="true"} ! adenosine metabolic process
is_a: GO:0046130 {is_inferred="true"} ! purine ribonucleoside catabolic process

@@ -6293,6 +13405,7 @@

id: GO:0006196 ! AMP catabolic process
is_a: GO:0009154 {is_inferred="true"} ! purine ribonucleotide catabolic process
is_a: GO:0009169 {is_inferred="true"} ! purine ribonucleoside monophosphate catabolic process

+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:0046033 {is_inferred="true"} ! AMP metabolic process

[Term]

@@ -6355,6 +13468,7 @@

id: GO:0006212 ! uracil catabolic process

is_a: GO:0006208 {is_inferred="true"} ! pyrimidine nucleobase catabolic process

is_a: GO:0019860 {is_inferred="true"} ! uracil metabolic process

+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process

[Term]

id: GO:0006213 ! pyrimidine nucleoside metabolic process

@@ -6852,12 +13966,20 @@

is_a: GO:0006541 {is_inferred="true"} ! glutamine metabolic process

[Term]

+id: GO:0006544 ! glycine metabolic process

+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process

+is_a: GO:0042133 {is_inferred="true"} ! neurotransmitter metabolic process

+

+ [Term]

id: GO:0006545 ! glycine biosynthetic process

is_a: GO:0006544 {is_inferred="true"} ! glycine metabolic process

+is_a: GO:0042136 {is_inferred="true"} ! neurotransmitter biosynthetic process

[Term]

id: GO:0006546 ! glycine catabolic process

is_a: GO:0006544 {is_inferred="true"} ! glycine metabolic process

+is_a: GO:0042135 {is_inferred="true"} ! neurotransmitter catabolic process

+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process

[Term]

id: GO:0006547 ! histidine metabolic process

@@ -6915,12 +14037,14 @@

[Term]

id: GO:0006558 ! L-phenylalanine metabolic process

is_a: GO:0009072 {is_inferred="true"} ! aromatic amino acid family metabolic process

+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process

is_a: GO:1902221 {is_inferred="true"} ! erythrose 4-phosphate/phosphoenolpyruvate family amino acid metabolic process

[Term]

id: GO:0006559 ! L-phenylalanine catabolic process

is_a: GO:0006558 {is_inferred="true"} ! L-phenylalanine metabolic process

is_a: GO:0009074 {is_inferred="true"} ! aromatic amino acid family catabolic process

+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process

is_a: GO:1902222 {is_inferred="true"} ! erythrose 4-phosphate/phosphoenolpyruvate family amino acid catabolic process

[Term]

@@ -7016,6 +14140,8 @@

[Term]

id: GO:0006581 ! acetylcholine catabolic process

is_a: GO:0008291 {is_inferred="true"} ! acetylcholine metabolic process

+is_a: GO:0042447 {is_inferred="true"} ! hormone catabolic process

+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process

is_a: GO:1901575 {is_inferred="true"} ! organic substance catabolic process

[Term]

@@ -7082,6 +14208,7 @@

[Term]

id: GO:0006600 ! creatine metabolic process

is_a: GO:0006575 {is_inferred="true"} ! cellular modified amino acid metabolic process

+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process

is_a: GO:1901605 {is_inferred="true"} ! alpha-amino acid metabolic process

[Term]

@@ -7206,6 +14333,7 @@

[Term]

id: GO:0006653 ! 1,2-diacyl-sn-glycero-3-phosphocholine metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0046470 {is_inferred="true"} ! phosphatidylcholine metabolic process

[Term]

@@ -7445,6 +14573,10 @@

is_a: GO:0008210 {is_inferred="true"} ! estrogen metabolic process

[Term]

+id: GO:0006704 ! glucocorticoid biosynthetic process
+is_a: GO:0042446 {is_inferred="true"} ! hormone biosynthetic process

+

+ [Term]

id: GO:0006706 ! steroid catabolic process
is_a: GO:0008202 {is_inferred="true"} ! steroid metabolic process
is_a: GO:0016042 {is_inferred="true"} ! lipid catabolic process

@@ -7468,6 +14600,7 @@

is_a: GO:0008208 {is_inferred="true"} ! C21-steroid hormone catabolic process
is_a: GO:0042182 {is_inferred="true"} ! ketone catabolic process
is_a: GO:0042448 {is_inferred="true"} ! progesterone metabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process

[Term]

id: GO:0006710 ! androgen catabolic process

@@ -7486,6 +14619,7 @@

id: GO:0006713 ! glucocorticoid catabolic process
is_a: GO:0006706 {is_inferred="true"} ! steroid catabolic process
is_a: GO:0008211 {is_inferred="true"} ! glucocorticoid metabolic process
+is_a: GO:0042447 {is_inferred="true"} ! hormone catabolic process

[Term]

id: GO:0006714 ! sesquiterpenoid metabolic process

@@ -7592,12 +14726,14 @@

is_a: GO:0006518 {is_inferred="true"} ! peptide metabolic process
is_a: GO:0006575 {is_inferred="true"} ! cellular modified amino acid metabolic process
is_a: GO:0006790 {is_inferred="true"} ! sulfur compound metabolic process
+is_a: GO:0051186 {is_inferred="true"} ! cofactor metabolic process

[Term]

id: GO:0006750 ! glutathione biosynthetic process
is_a: GO:0006749 {is_inferred="true"} ! glutathione metabolic process
is_a: GO:0042398 {is_inferred="true"} ! cellular modified amino acid biosynthetic process

is_a: GO:0044272 {is_inferred="true"} ! sulfur compound biosynthetic process
+is_a: GO:0051188 {is_inferred="true"} ! cofactor biosynthetic process

[Term]

id: GO:0006751 ! glutathione catabolic process

@@ -7605,6 +14741,7 @@

is_a: GO:0042219 {is_inferred="true"} ! cellular modified amino acid catabolic process
is_a: GO:0043171 {is_inferred="true"} ! peptide catabolic process
is_a: GO:0044273 {is_inferred="true"} ! sulfur compound catabolic process
+is_a: GO:0051187 {is_inferred="true"} ! cofactor catabolic process

[Term]

id: GO:0006753 ! nucleoside phosphate metabolic process

@@ -7633,7 +14770,9 @@

[Term]

id: GO:0006768 ! biotin metabolic process
+is_a: GO:0006732 {is_inferred="true"} ! coenzyme metabolic process
is_a: GO:0006790 {is_inferred="true"} ! sulfur compound metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0032787 {is_inferred="true"} ! monocarboxylic acid metabolic process

```

is_a: GO:0043603 {is_inferred="true"} ! cellular amide metabolic process
is_a: GO:0046483 {is_inferred="true"} ! heterocycle metabolic process
@@ -7643,11 +14782,14 @@
[Term]
id: GO:0006769 ! nicotinamide metabolic process
is_a: GO:0009820 {is_inferred="true"} ! alkaloid metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0043603 {is_inferred="true"} ! cellular amide metabolic process
+is_a: GO:0051186 {is_inferred="true"} ! cofactor metabolic process
is_a: GO:0072524 {is_inferred="true"} ! pyridine-containing compound metabolic process

[Term]
id: GO:0006771 ! riboflavin metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0042726 {is_inferred="true"} ! flavin-containing compound metabolic process

[Term]
@@ -7749,6 +14891,7 @@

[Term]
id: GO:0006809 ! nitric oxide biosynthetic process
+is_a: GO:0042136 {is_inferred="true"} ! neurotransmitter biosynthetic process
is_a: GO:0046209 {is_inferred="true"} ! nitric oxide metabolic process
is_a: GO:1903409 {is_inferred="true"} ! reactive oxygen species biosynthetic process

@@ -7797,6 +14940,7 @@

[Term]
id: GO:0006837 ! serotonin transport
+is_a: GO:0006836 {is_inferred="true"} ! neurotransmitter transport
is_a: GO:0015696 {is_inferred="true"} ! ammonium transport
is_a: GO:0015844 {is_inferred="true"} ! monoamine transport
is_a: GO:0015850 {is_inferred="true"} ! organic hydroxy compound transport
@@ -8604,6 +15748,10 @@
is_a: GO:0007423 {is_inferred="true"} ! sensory organ development

[Term]
+id: GO:0008061 ! chitin binding
+is_a: GO:0008144 {is_inferred="true"} ! drug binding
+
+[Term]
id: GO:0008064 ! regulation of actin polymerization or depolymerization
is_a: GO:0110053 {is_inferred="true"} ! regulation of actin filament organization

@@ -8693,7 +15841,12 @@
is_a: GO:0008207 {is_inferred="true"} ! C21-steroid hormone metabolic process

[Term]
+id: GO:0008211 ! glucocorticoid metabolic process
+is_a: GO:0042445 {is_inferred="true"} ! hormone metabolic process
+
+[Term]
id: GO:0008215 ! spermine metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0097164 {is_inferred="true"} ! ammonium ion metabolic process

[Term]
@@ -8701,6 +15854,10 @@
is_a: GO:0097164 {is_inferred="true"} ! ammonium ion metabolic process

[Term]
+id: GO:0008226 ! tyramine receptor activity
+is_a: GO:0099528 {is_inferred="true"} ! G-protein coupled neurotransmitter receptor
activity
+
+[Term]
id: GO:0008247 ! 1-alkyl-2-acetyl glycerophosphocholine esterase complex

```

is_a: GO:1902494 {is_inferred="true"} ! catalytic complex

@@ -8736,12 +15893,15 @@

[Term]

id: GO:0008291 ! acetylcholine metabolic process

+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process

+is_a: GO:0042445 {is_inferred="true"} ! hormone metabolic process

is_a: GO:0097164 {is_inferred="true"} ! ammonium ion metabolic process

is_a: GO:1900619 {is_inferred="true"} ! acetate ester metabolic process

[Term]

id: GO:0008292 ! acetylcholine biosynthetic process

is_a: GO:0008291 {is_inferred="true"} ! acetylcholine metabolic process

+is_a: GO:0042446 {is_inferred="true"} ! hormone biosynthetic process

is_a: GO:1900620 {is_inferred="true"} ! acetate ester biosynthetic process

[Term]

@@ -8901,6 +16061,7 @@

[Term]

id: GO:0008517 ! folic acid transmembrane transporter activity

is_a: GO:0005310 {is_inferred="true"} ! dicarboxylic acid transmembrane transporter activity

+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity

is_a: GO:0042887 {is_inferred="true"} ! amide transmembrane transporter activity

is_a: GO:0072349 {is_inferred="true"} ! modified amino acid transmembrane transporter activity

@@ -8911,9 +16072,8 @@

[Term]

id: GO:0008520 ! L-ascorbate:sodium symporter activity

is_a: GO:0005343 {is_inferred="true"} ! organic acid:sodium symporter activity

-is_a: GO:0015145 {is_inferred="true"} ! monosaccharide transmembrane transporter activity

+is_a: GO:0015229 {is_inferred="true"} ! L-ascorbic acid transmembrane transporter activity

is_a: GO:0015296 {is_inferred="true"} ! anion:cation symporter activity

-is_a: GO:0046943 {is_inferred="true"} ! carboxylic acid transmembrane transporter activity

[Term]

id: GO:0008521 ! acetyl-CoA transmembrane transporter activity

@@ -9011,6 +16171,7 @@

id: GO:0008614 ! pyridoxine metabolic process

is_a: GO:0006725 {is_inferred="true"} ! cellular aromatic compound metabolic process

is_a: GO:0042816 {is_inferred="true"} ! vitamin B6 metabolic process

+is_a: GO:0051186 {is_inferred="true"} ! cofactor metabolic process

is_a: GO:1901615 {is_inferred="true"} ! organic hydroxy compound metabolic process

[Term]

@@ -9018,6 +16179,7 @@

is_a: GO:0008614 {is_inferred="true"} ! pyridoxine metabolic process

is_a: GO:0019438 {is_inferred="true"} ! aromatic compound biosynthetic process

is_a: GO:0042819 {is_inferred="true"} ! vitamin B6 biosynthetic process

+is_a: GO:0051188 {is_inferred="true"} ! cofactor biosynthetic process

is_a: GO:1901617 {is_inferred="true"} ! organic hydroxy compound biosynthetic process

[Term]

@@ -9249,6 +16411,7 @@

[Term]

id: GO:0009102 ! biotin biosynthetic process

is_a: GO:0006768 {is_inferred="true"} ! biotin metabolic process

+is_a: GO:0009108 {is_inferred="true"} ! coenzyme biosynthetic process

is_a: GO:0018130 {is_inferred="true"} ! heterocycle biosynthetic process

is_a: GO:0043604 {is_inferred="true"} ! amide biosynthetic process

is_a: GO:0044272 {is_inferred="true"} ! sulfur compound biosynthetic process

@@ -9895,6 +17058,7 @@

id: GO:0009232 ! riboflavin catabolic process
 is_a: GO:0006771 {is_inferred="true"} ! riboflavin metabolic process
 is_a: GO:0042728 {is_inferred="true"} ! flavin-containing compound catabolic process
 +is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process

[Term]

id: GO:0009233 ! menaquinone metabolic process
 @@ -9907,12 +17071,15 @@

[Term]

id: GO:0009235 ! cobalamin metabolic process
 +is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
 is_a: GO:0033013 {is_inferred="true"} ! tetrapyrrole metabolic process
 +is_a: GO:0051186 {is_inferred="true"} ! cofactor metabolic process

[Term]

id: GO:0009236 ! cobalamin biosynthetic process
 is_a: GO:0009235 {is_inferred="true"} ! cobalamin metabolic process
 is_a: GO:0033014 {is_inferred="true"} ! tetrapyrrole biosynthetic process
 +is_a: GO:0051188 {is_inferred="true"} ! cofactor biosynthetic process

[Term]

id: GO:0009238 ! enterobactin metabolic process
 @@ -10212,8 +17379,10 @@

[Term]

id: GO:0009374 ! biotin binding
 +is_a: GO:0008144 {is_inferred="true"} ! drug binding
 is_a: GO:0033218 {is_inferred="true"} ! amide binding
 is_a: GO:0033293 {is_inferred="true"} ! monocarboxylic acid binding
 +is_a: GO:0050662 {is_inferred="true"} ! coenzyme binding
 is_a: GO:0097159 {is_inferred="true"} ! organic cyclic compound binding
 is_a: GO:1901363 {is_inferred="true"} ! heterocyclic compound binding
 is_a: GO:1901681 {is_inferred="true"} ! sulfur compound binding
 @@ -10316,6 +17485,7 @@

[Term]

id: GO:0009441 ! glycolate metabolic process
 +is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
 is_a: GO:0032787 {is_inferred="true"} ! monocarboxylic acid metabolic process
 is_a: GO:0034308 {is_inferred="true"} ! primary alcohol metabolic process

@@ -10332,15 +17502,21 @@

is_a: GO:0009445 {is_inferred="true"} ! putrescine metabolic process

[Term]

+id: GO:0009448 ! gamma-aminobutyric acid metabolic process
 +is_a: GO:0042133 {is_inferred="true"} ! neurotransmitter metabolic process
 +

+ [Term]

id: GO:0009449 ! gamma-aminobutyric acid biosynthetic process
 is_a: GO:0008652 {is_inferred="true"} ! cellular amino acid biosynthetic process
 is_a: GO:0009448 {is_inferred="true"} ! gamma-aminobutyric acid metabolic process
 +is_a: GO:0042136 {is_inferred="true"} ! neurotransmitter biosynthetic process
 is_a: GO:0072330 {is_inferred="true"} ! monocarboxylic acid biosynthetic process

[Term]

id: GO:0009450 ! gamma-aminobutyric acid catabolic process
 is_a: GO:0009063 {is_inferred="true"} ! cellular amino acid catabolic process
 is_a: GO:0009448 {is_inferred="true"} ! gamma-aminobutyric acid metabolic process
 +is_a: GO:0042135 {is_inferred="true"} ! neurotransmitter catabolic process
 is_a: GO:0072329 {is_inferred="true"} ! monocarboxylic acid catabolic process

[Term]

@@ -10498,11 +17674,13 @@

id: GO:0009685 ! gibberellin metabolic process
 is_a: GO:0016101 {is_inferred="true"} ! diterpenoid metabolic process

is_a: GO:0019752 {is_inferred="true"} ! carboxylic acid metabolic process
 +is_a: GO:0042445 {is_inferred="true"} ! hormone metabolic process

[Term]

id: GO:0009686 ! gibberellin biosynthetic process
 is_a: GO:0009685 {is_inferred="true"} ! gibberellin metabolic process
 is_a: GO:0016102 {is_inferred="true"} ! diterpenoid biosynthetic process
 +is_a: GO:0042446 {is_inferred="true"} ! hormone biosynthetic process
 is_a: GO:0046394 {is_inferred="true"} ! carboxylic acid biosynthetic process

[Term]

@@ -10522,31 +17700,38 @@

[Term]

id: GO:0009692 ! ethylene metabolic process
 +is_a: GO:0042445 {is_inferred="true"} ! hormone metabolic process
 is_a: GO:0043449 {is_inferred="true"} ! cellular alkene metabolic process

[Term]

id: GO:0009693 ! ethylene biosynthetic process
 is_a: GO:0009692 {is_inferred="true"} ! ethylene metabolic process
 +is_a: GO:0042446 {is_inferred="true"} ! hormone biosynthetic process
 is_a: GO:0043450 {is_inferred="true"} ! alkene biosynthetic process

[Term]

id: GO:0009694 ! jasmonic acid metabolic process
 is_a: GO:0032787 {is_inferred="true"} ! monocarboxylic acid metabolic process
 +is_a: GO:0042445 {is_inferred="true"} ! hormone metabolic process

[Term]

id: GO:0009695 ! jasmonic acid biosynthetic process
 is_a: GO:0009694 {is_inferred="true"} ! jasmonic acid metabolic process
 +is_a: GO:0042446 {is_inferred="true"} ! hormone biosynthetic process
 is_a: GO:0072330 {is_inferred="true"} ! monocarboxylic acid biosynthetic process

[Term]

id: GO:0009696 ! salicylic acid metabolic process
 +is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
 is_a: GO:0018958 {is_inferred="true"} ! phenol-containing compound metabolic process
 is_a: GO:0032787 {is_inferred="true"} ! monocarboxylic acid metabolic process
 +is_a: GO:0042445 {is_inferred="true"} ! hormone metabolic process
 is_a: GO:0042537 {is_inferred="true"} ! benzene-containing compound metabolic process

[Term]

id: GO:0009697 ! salicylic acid biosynthetic process
 is_a: GO:0009696 {is_inferred="true"} ! salicylic acid metabolic process
 +is_a: GO:0042446 {is_inferred="true"} ! hormone biosynthetic process
 is_a: GO:0046189 {is_inferred="true"} ! phenol-containing compound biosynthetic process
 is_a: GO:0072330 {is_inferred="true"} ! monocarboxylic acid biosynthetic process

@@ -10668,7 +17853,9 @@

[Term]

id: GO:0009751 ! response to salicylic acid
 is_a: GO:0001101 {is_inferred="true"} ! response to acid chemical
 +is_a: GO:0009725 {is_inferred="true"} ! response to hormone
 is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
 +is_a: GO:0042493 {is_inferred="true"} ! response to drug
 is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]

@@ -11055,6 +18242,7 @@

[Term]

id: GO:0010023 ! proanthocyanidin biosynthetic process
 is_a: GO:0009699 {is_inferred="true"} ! phenylpropanoid biosynthetic process
 +is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
 is_a: GO:0018130 {is_inferred="true"} ! heterocycle biosynthetic process

is_a: GO:0046189 {is_inferred="true"} ! phenol-containing compound biosynthetic process

@@ -11092,6 +18280,7 @@

[Term]

id: GO:0010037 ! response to carbon dioxide

is_a: GO:0010033 {is_inferred="true"} ! response to organic substance

+is_a: GO:0072347 {is_inferred="true"} ! response to anesthetic

is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]

@@ -11318,6 +18507,8 @@

[Term]

id: GO:0010124 ! phenylacetate catabolic process

+is_a: GO:0009407 {is_inferred="true"} ! toxin catabolic process

+is_a: GO:0009852 {is_inferred="true"} ! auxin catabolic process

is_a: GO:0019439 {is_inferred="true"} ! aromatic compound catabolic process

is_a: GO:0042537 {is_inferred="true"} ! benzene-containing compound metabolic process

is_a: GO:0072329 {is_inferred="true"} ! monocarboxylic acid catabolic process

@@ -11413,6 +18604,7 @@

id: GO:0010181 ! FMN binding

is_a: GO:0032553 {is_inferred="true"} ! ribonucleotide binding

is_a: GO:0043168 {is_inferred="true"} ! anion binding

+is_a: GO:0050662 {is_inferred="true"} ! coenzyme binding

[Term]

id: GO:0010183 ! pollen tube guidance

@@ -11443,6 +18635,7 @@

is_a: GO:0000302 {is_inferred="true"} ! response to reactive oxygen species

is_a: GO:0001101 {is_inferred="true"} ! response to acid chemical

is_a: GO:0010035 {is_inferred="true"} ! response to inorganic substance

+is_a: GO:0042493 {is_inferred="true"} ! response to drug

[Term]

id: GO:0010197 ! polar nucleus fusion

@@ -11451,6 +18644,7 @@

[Term]

id: GO:0010200 ! response to chitin

is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound

+is_a: GO:0042493 {is_inferred="true"} ! response to drug

is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]

@@ -11532,6 +18726,7 @@

id: GO:0010266 ! response to vitamin B1

is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound

is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound

+is_a: GO:0042493 {is_inferred="true"} ! response to drug

[Term]

id: GO:0010268 ! brassinosteroid homeostasis

@@ -11588,6 +18783,7 @@

[Term]

id: GO:0010310 ! regulation of hydrogen peroxide metabolic process

+is_a: GO:0051193 {is_inferred="true"} ! regulation of cofactor metabolic process

is_a: GO:2000377 {is_inferred="true"} ! regulation of reactive oxygen species metabolic process

[Term]

@@ -11636,6 +18832,10 @@

is_a: GO:0055088 {is_inferred="true"} ! lipid homeostasis

[Term]

+id: GO:0010337 ! regulation of salicylic acid metabolic process

+is_a: GO:0032350 {is_inferred="true"} ! regulation of hormone metabolic process

+

+[Term]

id: GO:0010338 ! leaf formation
 is_a: GO:1905393 {is_inferred="true"} ! plant organ formation

@@ -11683,19 +18883,19 @@

[Term]

id: GO:0010364 ! regulation of ethylene biosynthetic process
 -is_a: GO:0031326 {is_inferred="true"} ! regulation of cellular biosynthetic process
 +is_a: GO:0046885 {is_inferred="true"} ! regulation of hormone biosynthetic process
 is_a: GO:1900911 {is_inferred="true"} ! regulation of olefin biosynthetic process

[Term]

id: GO:0010365 ! positive regulation of ethylene biosynthetic process
 is_a: GO:0010364 {is_inferred="true"} ! regulation of ethylene biosynthetic process
 -is_a: GO:0031328 {is_inferred="true"} ! positive regulation of cellular biosynthetic process
 +is_a: GO:0046886 {is_inferred="true"} ! positive regulation of hormone biosynthetic process
 is_a: GO:1900913 {is_inferred="true"} ! positive regulation of olefin biosynthetic process

[Term]

id: GO:0010366 ! negative regulation of ethylene biosynthetic process
 is_a: GO:0010364 {is_inferred="true"} ! regulation of ethylene biosynthetic process
 -is_a: GO:0031327 {is_inferred="true"} ! negative regulation of cellular biosynthetic process
 +is_a: GO:0032353 {is_inferred="true"} ! negative regulation of hormone biosynthetic process
 is_a: GO:1900912 {is_inferred="true"} ! negative regulation of olefin biosynthetic process

[Term]

@@ -11711,20 +18911,20 @@

[Term]

id: GO:0010371 ! regulation of gibberellin biosynthetic process
 is_a: GO:0019747 {is_inferred="true"} ! regulation of isoprenoid metabolic process
 -is_a: GO:0031326 {is_inferred="true"} ! regulation of cellular biosynthetic process
 +is_a: GO:0046885 {is_inferred="true"} ! regulation of hormone biosynthetic process
 is_a: GO:0046890 {is_inferred="true"} ! regulation of lipid biosynthetic process

[Term]

id: GO:0010372 ! positive regulation of gibberellin biosynthetic process
 is_a: GO:0010371 {is_inferred="true"} ! regulation of gibberellin biosynthetic process
 -is_a: GO:0031328 {is_inferred="true"} ! positive regulation of cellular biosynthetic process
 is_a: GO:0045828 {is_inferred="true"} ! positive regulation of isoprenoid metabolic process
 +is_a: GO:0046886 {is_inferred="true"} ! positive regulation of hormone biosynthetic process
 is_a: GO:0046889 {is_inferred="true"} ! positive regulation of lipid biosynthetic process

[Term]

id: GO:0010373 ! negative regulation of gibberellin biosynthetic process
 is_a: GO:0010371 {is_inferred="true"} ! regulation of gibberellin biosynthetic process
 -is_a: GO:0031327 {is_inferred="true"} ! negative regulation of cellular biosynthetic process
 +is_a: GO:0032353 {is_inferred="true"} ! negative regulation of hormone biosynthetic process
 is_a: GO:0045827 {is_inferred="true"} ! negative regulation of isoprenoid metabolic process
 is_a: GO:0051055 {is_inferred="true"} ! negative regulation of lipid biosynthetic process

@@ -11751,6 +18951,7 @@

[Term]
id: GO:0010391 ! glucomannan metabolic process
is_a: GO:0006080 {is_inferred="true"} ! substituted mannan metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process

[Term]
id: GO:0010392 ! galactoglucomannan metabolic process
@@ -12565,11 +19766,13 @@

[Term]
id: GO:0010726 ! positive regulation of hydrogen peroxide metabolic process
is_a: GO:0010310 {is_inferred="true"} ! regulation of hydrogen peroxide metabolic process
+is_a: GO:0051194 {is_inferred="true"} ! positive regulation of cofactor metabolic process
is_a: GO:2000379 {is_inferred="true"} ! positive regulation of reactive oxygen species metabolic process

[Term]
id: GO:0010727 ! negative regulation of hydrogen peroxide metabolic process
is_a: GO:0010310 {is_inferred="true"} ! regulation of hydrogen peroxide metabolic process
+is_a: GO:0051195 {is_inferred="true"} ! negative regulation of cofactor metabolic process
is_a: GO:2000378 {is_inferred="true"} ! negative regulation of reactive oxygen species metabolic process

[Term]
@@ -12883,10 +20086,12 @@

[Term]
id: GO:0010815 ! bradykinin catabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:0043171 {is_inferred="true"} ! peptide catabolic process

[Term]
id: GO:0010816 ! calcitonin catabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:0043171 {is_inferred="true"} ! peptide catabolic process

[Term]
@@ -13389,6 +20594,7 @@

[Term]
id: GO:0010956 ! negative regulation of calcidiol 1-monooxygenase activity
is_a: GO:0010957 {is_inferred="true"} ! negative regulation of vitamin D biosynthetic process
+is_a: GO:0032353 {is_inferred="true"} ! negative regulation of hormone biosynthetic process
is_a: GO:0032769 {is_inferred="true"} ! negative regulation of monooxygenase activity
is_a: GO:0060558 {is_inferred="true"} ! regulation of calcidiol 1-monooxygenase activity
is_a: GO:1902931 {is_inferred="true"} ! negative regulation of alcohol biosynthetic process
@@ -13415,6 +20621,7 @@

[Term]
id: GO:0010963 ! regulation of L-arginine import
is_a: GO:0010958 {is_inferred="true"} ! regulation of amino acid import
+is_a: GO:2001023 {is_inferred="true"} ! regulation of response to drug

[Term]
id: GO:0010964 ! regulation of chromatin silencing by small RNA
@@ -13723,25 +20930,30 @@

[Term]
id: GO:0014052 ! regulation of gamma-aminobutyric acid secretion
is_a: GO:0051046 {is_inferred="true"} ! regulation of secretion
+is_a: GO:0051588 {is_inferred="true"} ! regulation of neurotransmitter transport
is_a: GO:0051955 {is_inferred="true"} ! regulation of amino acid transport

[Term]
id: GO:0014053 ! negative regulation of gamma-aminobutyric acid secretion
is_a: GO:0014052 {is_inferred="true"} ! regulation of gamma-aminobutyric acid secretion
is_a: GO:0051048 {is_inferred="true"} ! negative regulation of secretion
+is_a: GO:0051589 {is_inferred="true"} ! negative regulation of neurotransmitter transport
is_a: GO:0051956 {is_inferred="true"} ! negative regulation of amino acid transport

[Term]
id: GO:0014054 ! positive regulation of gamma-aminobutyric acid secretion
is_a: GO:0014052 {is_inferred="true"} ! regulation of gamma-aminobutyric acid secretion
is_a: GO:0051047 {is_inferred="true"} ! positive regulation of secretion
+is_a: GO:0051590 {is_inferred="true"} ! positive regulation of neurotransmitter transport
is_a: GO:0051957 {is_inferred="true"} ! positive regulation of amino acid transport

[Term]
id: GO:0014056 ! regulation of acetylcholine secretion, neurotransmission
is_a: GO:0032222 {is_inferred="true"} ! regulation of synaptic transmission, cholinergic
is_a: GO:0043269 {is_inferred="true"} ! regulation of ion transport
+is_a: GO:0046883 {is_inferred="true"} ! regulation of hormone secretion
is_a: GO:0046928 {is_inferred="true"} ! regulation of neurotransmitter secretion
+is_a: GO:2001023 {is_inferred="true"} ! regulation of response to drug

[Term]
id: GO:0014057 ! positive regulation of acetylcholine secretion, neurotransmission
@@ -13749,18 +20961,23 @@
is_a: GO:0014056 {is_inferred="true"} ! regulation of acetylcholine secretion, neurotransmission
is_a: GO:0032224 {is_inferred="true"} ! positive regulation of synaptic transmission, cholinergic
is_a: GO:0043270 {is_inferred="true"} ! positive regulation of ion transport
+is_a: GO:0046887 {is_inferred="true"} ! positive regulation of hormone secretion
+is_a: GO:2001025 {is_inferred="true"} ! positive regulation of response to drug

[Term]
id: GO:0014058 ! negative regulation of acetylcholine secretion, neurotransmission
is_a: GO:0014056 {is_inferred="true"} ! regulation of acetylcholine secretion, neurotransmission
is_a: GO:0032223 {is_inferred="true"} ! negative regulation of synaptic transmission, cholinergic
is_a: GO:0043271 {is_inferred="true"} ! negative regulation of ion transport
+is_a: GO:0046888 {is_inferred="true"} ! negative regulation of hormone secretion
is_a: GO:0046929 {is_inferred="true"} ! negative regulation of neurotransmitter secretion
+is_a: GO:2001024 {is_inferred="true"} ! negative regulation of response to drug

[Term]
id: GO:0014059 ! regulation of dopamine secretion
is_a: GO:0043269 {is_inferred="true"} ! regulation of ion transport
is_a: GO:0050433 {is_inferred="true"} ! regulation of catecholamine secretion
+is_a: GO:2001023 {is_inferred="true"} ! regulation of response to drug

[Term]
id: GO:0014060 ! regulation of epinephrine secretion
@@ -13768,6 +20985,18 @@
is_a: GO:0050433 {is_inferred="true"} ! regulation of catecholamine secretion

[Term]
+id: GO:0014062 ! regulation of serotonin secretion
+is_a: GO:0051588 {is_inferred="true"} ! regulation of neurotransmitter transport
+

+ [Term]
+id: GO:0014063 ! negative regulation of serotonin secretion

+is_a: GO:0051589 {is_inferred="true"} ! negative regulation of neurotransmitter transport

+

+ [Term]

+id: GO:0014064 ! positive regulation of serotonin secretion

+is_a: GO:0051590 {is_inferred="true"} ! positive regulation of neurotransmitter transport

+

+ [Term]

id: GO:0014066 ! regulation of phosphatidylinositol 3-kinase signaling

is_a: GO:1902531 {is_inferred="true"} ! regulation of intracellular signal transduction

@@ -13813,6 +21042,10 @@

is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound

[Term]

+id: GO:0014076 ! response to fluoxetine

+is_a: GO:0009410 {is_inferred="true"} ! response to xenobiotic stimulus

+

+ [Term]

id: GO:0014707 ! branchiomic skeletal muscle development

is_a: GO:0007517 {is_inferred="true"} ! muscle organ development

@@ -14365,6 +21598,7 @@

[Term]

id: GO:0015139 ! alpha-ketoglutarate transmembrane transporter activity

is_a: GO:0005310 {is_inferred="true"} ! dicarboxylic acid transmembrane transporter activity

+is_a: GO:0051184 {is_inferred="true"} ! cofactor transmembrane transporter activity

[Term]

id: GO:0015140 ! malate transmembrane transporter activity

@@ -14372,6 +21606,7 @@

[Term]

id: GO:0015141 ! succinate transmembrane transporter activity

+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity

is_a: GO:0015556 {is_inferred="true"} ! C4-dicarboxylate transmembrane transporter activity

[Term]

@@ -14508,10 +21743,12 @@

is_a: GO:0008028 {is_inferred="true"} ! monocarboxylic acid transmembrane transporter activity

is_a: GO:0008324 {is_inferred="true"} ! cation transmembrane transporter activity

is_a: GO:0015179 {is_inferred="true"} ! L-amino acid transmembrane transporter activity

+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity

is_a: GO:0042887 {is_inferred="true"} ! amide transmembrane transporter activity

[Term]

id: GO:0015183 ! L-aspartate transmembrane transporter activity

+is_a: GO:0005326 {is_inferred="true"} ! neurotransmitter transporter activity

is_a: GO:0015179 {is_inferred="true"} ! L-amino acid transmembrane transporter activity

is_a: GO:0015556 {is_inferred="true"} ! C4-dicarboxylate transmembrane transporter activity

@@ -14523,6 +21760,7 @@

[Term]

id: GO:0015185 ! gamma-aminobutyric acid transmembrane transporter activity

+is_a: GO:0005326 {is_inferred="true"} ! neurotransmitter transporter activity

is_a: GO:0008028 {is_inferred="true"} ! monocarboxylic acid transmembrane transporter activity

is_a: GO:0015171 {is_inferred="true"} ! amino acid transmembrane transporter activity

@@ -14530,11 +21768,14 @@

id: GO:0015186 ! L-glutamine transmembrane transporter activity
is_a: GO:0008324 {is_inferred="true"} ! cation transmembrane transporter activity
is_a: GO:0015179 {is_inferred="true"} ! L-amino acid transmembrane transporter activity
+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity

[Term]

id: GO:0015187 ! glycine transmembrane transporter activity
+is_a: GO:0005326 {is_inferred="true"} ! neurotransmitter transporter activity
is_a: GO:0008324 {is_inferred="true"} ! cation transmembrane transporter activity
is_a: GO:0015179 {is_inferred="true"} ! L-amino acid transmembrane transporter activity
+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity

[Term]

id: GO:0015188 ! L-isoleucine transmembrane transporter activity

@@ -14546,6 +21787,7 @@

id: GO:0015189 ! L-lysine transmembrane transporter activity
is_a: GO:0008324 {is_inferred="true"} ! cation transmembrane transporter activity
is_a: GO:0015179 {is_inferred="true"} ! L-amino acid transmembrane transporter activity
+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity

[Term]

id: GO:0015190 ! L-leucine transmembrane transporter activity

@@ -14556,6 +21798,7 @@

[Term]

id: GO:0015191 ! L-methionine transmembrane transporter activity
is_a: GO:0015179 {is_inferred="true"} ! L-amino acid transmembrane transporter activity
+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity
is_a: GO:0043865 {is_inferred="true"} ! methionine transmembrane transporter activity

[Term]

@@ -14563,11 +21806,13 @@

is_a: GO:0008324 {is_inferred="true"} ! cation transmembrane transporter activity
is_a: GO:0015173 {is_inferred="true"} ! aromatic amino acid transmembrane transporter activity
is_a: GO:0015179 {is_inferred="true"} ! L-amino acid transmembrane transporter activity
+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity

[Term]

id: GO:0015193 ! L-proline transmembrane transporter activity
is_a: GO:0008324 {is_inferred="true"} ! cation transmembrane transporter activity
is_a: GO:0015179 {is_inferred="true"} ! L-amino acid transmembrane transporter activity
+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity

[Term]

id: GO:0015194 ! L-serine transmembrane transporter activity

@@ -14578,12 +21823,14 @@

id: GO:0015195 ! L-threonine transmembrane transporter activity
is_a: GO:0008324 {is_inferred="true"} ! cation transmembrane transporter activity
is_a: GO:0015179 {is_inferred="true"} ! L-amino acid transmembrane transporter activity
+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity

[Term]

id: GO:0015196 ! L-tryptophan transmembrane transporter activity
is_a: GO:0008324 {is_inferred="true"} ! cation transmembrane transporter activity
is_a: GO:0015173 {is_inferred="true"} ! aromatic amino acid transmembrane transporter activity
is_a: GO:0015179 {is_inferred="true"} ! L-amino acid transmembrane transporter activity

+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity

[Term]

id: GO:0015197 ! peptide transporter activity

@@ -14627,6 +21874,7 @@

[Term]

id: GO:0015210 ! uracil transmembrane transporter activity

is_a: GO:0005350 {is_inferred="true"} ! pyrimidine nucleobase transmembrane transporter activity

+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity

[Term]

id: GO:0015211 ! purine nucleoside transmembrane transporter activity

@@ -14669,6 +21917,7 @@

[Term]

id: GO:0015220 ! choline transmembrane transporter activity

+is_a: GO:0005326 {is_inferred="true"} ! neurotransmitter transporter activity

is_a: GO:0008519 {is_inferred="true"} ! ammonium transmembrane transporter activity

is_a: GO:0015101 {is_inferred="true"} ! organic cation transmembrane transporter activity

@@ -14680,14 +21929,21 @@

[Term]

id: GO:0015222 ! serotonin transmembrane transporter activity

+is_a: GO:0005326 {is_inferred="true"} ! neurotransmitter transporter activity

is_a: GO:0008504 {is_inferred="true"} ! monoamine transmembrane transporter activity

is_a: GO:0008519 {is_inferred="true"} ! ammonium transmembrane transporter activity

is_a: GO:1901618 {is_inferred="true"} ! organic hydroxy compound transmembrane transporter activity

[Term]

+id: GO:0015224 ! bipterin transmembrane transporter activity

+is_a: GO:0051185 {is_inferred="true"} ! coenzyme transmembrane transporter activity

+

+ [Term]

id: GO:0015225 ! biotin transmembrane transporter activity

is_a: GO:0008028 {is_inferred="true"} ! monocarboxylic acid transmembrane transporter activity

+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity

is_a: GO:0042887 {is_inferred="true"} ! amide transmembrane transporter activity

+is_a: GO:0051185 {is_inferred="true"} ! coenzyme transmembrane transporter activity

is_a: GO:1901682 {is_inferred="true"} ! sulfur compound transmembrane transporter activity

[Term]

@@ -14707,6 +21963,7 @@

id: GO:0015229 ! L-ascorbic acid transmembrane transporter activity

is_a: GO:0015145 {is_inferred="true"} ! monosaccharide transmembrane transporter activity

is_a: GO:0046943 {is_inferred="true"} ! carboxylic acid transmembrane transporter activity

+is_a: GO:0051185 {is_inferred="true"} ! coenzyme transmembrane transporter activity

is_a: GO:0090482 {is_inferred="true"} ! vitamin transmembrane transporter activity

[Term]

@@ -14723,11 +21980,13 @@

[Term]

id: GO:0015233 ! pantothenate transmembrane transporter activity

is_a: GO:0008028 {is_inferred="true"} ! monocarboxylic acid transmembrane transporter activity

+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity

is_a: GO:0042887 {is_inferred="true"} ! amide transmembrane transporter activity

is_a: GO:0072349 {is_inferred="true"} ! modified amino acid transmembrane transporter activity

[Term]
 id: GO:0015234 ! thiamine transmembrane transporter activity
 +is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity
 is_a: GO:1901474 {is_inferred="true"} ! azole transmembrane transporter activity
 is_a: GO:1901682 {is_inferred="true"} ! sulfur compound transmembrane transporter activity

@@ -14746,7 +22005,9 @@

[Term]
 id: GO:0015244 ! fluconazole transmembrane transporter activity
 +is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity
 is_a: GO:0015665 {is_inferred="true"} ! alcohol transmembrane transporter activity
 +is_a: GO:0042910 {is_inferred="true"} ! xenobiotic transmembrane transporter activity
 is_a: GO:1901474 {is_inferred="true"} ! azole transmembrane transporter activity

[Term]
 @@ -14845,6 +22106,7 @@

[Term]
 id: GO:0015306 ! sialate:cation symporter activity
 is_a: GO:0015136 {is_inferred="true"} ! sialic acid transmembrane transporter activity
 +is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity

[Term]
 id: GO:0015308 ! amiloride:proton antiporter activity
 @@ -14891,7 +22153,7 @@

[Term]
 id: GO:0015343 ! siderophore transmembrane transporter activity
 -is_a: GO:0022857 {is_inferred="true"} ! transmembrane transporter activity
 +is_a: GO:0051184 {is_inferred="true"} ! cofactor transmembrane transporter activity

[Term]
 id: GO:0015350 ! methotrexate transmembrane transporter activity
 @@ -14920,6 +22182,7 @@

[Term]
 id: GO:0015375 ! glycine:sodium symporter activity
 +is_a: GO:0005328 {is_inferred="true"} ! neurotransmitter:sodium symporter activity
 is_a: GO:0015296 {is_inferred="true"} ! anion:cation symporter activity

[Term]
 @@ -14929,6 +22192,8 @@

[Term]
 id: GO:0015411 ! taurine-transporting ATPase activity
 is_a: GO:0005368 {is_inferred="true"} ! taurine transmembrane transporter activity
 +is_a: GO:0008559 {is_inferred="true"} ! xenobiotic transmembrane transporting ATPase activity
 +is_a: GO:0033283 {is_inferred="true"} ! organic acid-transporting ATPase activity
 is_a: GO:0043225 {is_inferred="true"} ! ATPase-coupled anion transmembrane transporter activity

[Term]
 @@ -14963,7 +22228,9 @@

[Term]
 id: GO:0015420 ! cobalamin-transporting ATPase activity
 +is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity
 is_a: GO:0042626 {is_inferred="true"} ! ATPase activity, coupled to transmembrane movement of substances
 +is_a: GO:0051184 {is_inferred="true"} ! cofactor transmembrane transporter activity

[Term]
 id: GO:0015424 ! amino acid-transporting ATPase activity
 @@ -15069,11 +22336,14 @@
 is_a: GO:0015293 {is_inferred="true"} ! symporter activity
 is_a: GO:0015355 {is_inferred="true"} ! secondary active monocarboxylate transmembrane

transporter activity
is_a: GO:0042887 {is_inferred="true"} ! amide transmembrane transporter activity
+is_a: GO:0051184 {is_inferred="true"} ! cofactor transmembrane transporter activity
is_a: GO:0072349 {is_inferred="true"} ! modified amino acid transmembrane transporter activity
+is_a: GO:0090482 {is_inferred="true"} ! vitamin transmembrane transporter activity

[Term]

id: GO:0015499 ! formate transmembrane transporter activity
is_a: GO:0008028 {is_inferred="true"} ! monocarboxylic acid transmembrane transporter activity
+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity

[Term]

id: GO:0015501 ! glutamate:sodium symporter activity
@@ -15180,7 +22450,9 @@

[Term]

id: GO:0015546 ! sulfathiazole transmembrane transporter activity
+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity
is_a: GO:0042887 {is_inferred="true"} ! amide transmembrane transporter activity
+is_a: GO:0042910 {is_inferred="true"} ! xenobiotic transmembrane transporter activity
is_a: GO:1901474 {is_inferred="true"} ! azole transmembrane transporter activity
is_a: GO:1901682 {is_inferred="true"} ! sulfur compound transmembrane transporter activity

@@ -15203,6 +22475,7 @@

[Term]

id: GO:0015552 ! propionate transmembrane transporter activity
+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity
is_a: GO:0015636 {is_inferred="true"} ! short-chain fatty acid transmembrane transporter activity

[Term]

@@ -15425,9 +22698,14 @@

[Term]

id: GO:0015670 ! carbon dioxide transport
+is_a: GO:0015893 {is_inferred="true"} ! drug transport
is_a: GO:0019755 {is_inferred="true"} ! one-carbon compound transport

[Term]

+id: GO:0015671 ! oxygen transport
+is_a: GO:0015893 {is_inferred="true"} ! drug transport
+

+[Term]

id: GO:0015672 ! monovalent inorganic cation transport
is_a: GO:0006812 {is_inferred="true"} ! cation transport

@@ -15606,12 +22884,14 @@

[Term]

id: GO:0015720 ! allantoin transport
+is_a: GO:0015893 {is_inferred="true"} ! drug transport
is_a: GO:0042886 {is_inferred="true"} ! amide transport
is_a: GO:0071702 {is_inferred="true"} ! organic substance transport

[Term]

id: GO:0015722 ! canalicular bile acid transport
-is_a: GO:0032782 {is_inferred="true"} ! bile acid secretion
+is_a: GO:0015721 {is_inferred="true"} ! bile acid and bile salt transport
+is_a: GO:0046717 {is_inferred="true"} ! acid secretion

[Term]

id: GO:0015723 ! bilirubin transport
@@ -15621,6 +22901,7 @@


```
[Term]
id: GO:0015724 ! formate transport
is_a: GO:0015718 {is_inferred="true"} ! monocarboxylic acid transport
+is_a: GO:0015893 {is_inferred="true"} ! drug transport

[Term]
id: GO:0015725 ! gluconate transport
@@ -15646,6 +22927,7 @@

[Term]
id: GO:0015730 ! propanoate transport
+is_a: GO:0015893 {is_inferred="true"} ! drug transport
is_a: GO:0015912 {is_inferred="true"} ! short-chain fatty acid transport

[Term]
@@ -15665,6 +22947,8 @@
[Term]
id: GO:0015734 ! taurine transport
is_a: GO:0015711 {is_inferred="true"} ! organic anion transport
+is_a: GO:0015849 {is_inferred="true"} ! organic acid transport
+is_a: GO:0042908 {is_inferred="true"} ! xenobiotic transport
is_a: GO:0071705 {is_inferred="true"} ! nitrogen compound transport
is_a: GO:0072348 {is_inferred="true"} ! sulfur compound transport

@@ -15701,6 +22985,7 @@
[Term]
id: GO:0015742 ! alpha-ketoglutarate transport
is_a: GO:0006835 {is_inferred="true"} ! dicarboxylic acid transport
+is_a: GO:0051181 {is_inferred="true"} ! cofactor transport

[Term]
id: GO:0015743 ! malate transport
@@ -15709,6 +22994,7 @@
[Term]
id: GO:0015744 ! succinate transport
is_a: GO:0015740 {is_inferred="true"} ! C4-dicarboxylate transport
+is_a: GO:0015893 {is_inferred="true"} ! drug transport

[Term]
id: GO:0015745 ! tartrate transport
@@ -15951,6 +23237,7 @@

[Term]
id: GO:0015805 ! S-adenosyl-L-methionine transport
+is_a: GO:0015893 {is_inferred="true"} ! drug transport
is_a: GO:0051182 {is_inferred="true"} ! coenzyme transport
is_a: GO:0071702 {is_inferred="true"} ! organic substance transport
is_a: GO:0072348 {is_inferred="true"} ! sulfur compound transport
@@ -15987,14 +23274,17 @@

[Term]
id: GO:0015812 ! gamma-aminobutyric acid transport
+is_a: GO:0006836 {is_inferred="true"} ! neurotransmitter transport
is_a: GO:0006865 {is_inferred="true"} ! amino acid transport
is_a: GO:0015718 {is_inferred="true"} ! monocarboxylic acid transport

[Term]
id: GO:0015813 ! L-glutamate transport
is_a: GO:0006835 {is_inferred="true"} ! dicarboxylic acid transport
+is_a: GO:0006836 {is_inferred="true"} ! neurotransmitter transport
is_a: GO:0015800 {is_inferred="true"} ! acidic amino acid transport
is_a: GO:0015807 {is_inferred="true"} ! L-amino acid transport
+is_a: GO:0015893 {is_inferred="true"} ! drug transport

[Term]
id: GO:0015814 ! p-aminobenzoyl-glutamate transport
@@ -16005,7 +23295,9 @@
```

```
[Term]
id: GO:0015816 ! glycine transport
is_a: GO:0006812 {is_inferred="true"} ! cation transport
+is_a: GO:0006836 {is_inferred="true"} ! neurotransmitter transport
is_a: GO:0015807 {is_inferred="true"} ! L-amino acid transport
+is_a: GO:0015893 {is_inferred="true"} ! drug transport

[Term]
id: GO:0015817 ! histidine transport
@@ -16154,6 +23446,7 @@

[Term]
id: GO:0015857 ! uracil transport
is_a: GO:0015855 {is_inferred="true"} ! pyrimidine nucleobase transport
+is_a: GO:0015893 {is_inferred="true"} ! drug transport

[Term]
id: GO:0015858 ! nucleoside transport
@@ -16200,6 +23493,7 @@
id: GO:0015867 ! ATP transport
is_a: GO:0015711 {is_inferred="true"} ! organic anion transport
is_a: GO:0015868 {is_inferred="true"} ! purine ribonucleotide transport
+is_a: GO:0015893 {is_inferred="true"} ! drug transport
is_a: GO:0051503 {is_inferred="true"} ! adenine nucleotide transport

[Term]
@@ -16213,18 +23507,23 @@

[Term]
id: GO:0015870 ! acetylcholine transport
+is_a: GO:0006836 {is_inferred="true"} ! neurotransmitter transport
+is_a: GO:0009914 {is_inferred="true"} ! hormone transport
is_a: GO:0015695 {is_inferred="true"} ! organic cation transport
is_a: GO:0015696 {is_inferred="true"} ! ammonium transport
+is_a: GO:0015893 {is_inferred="true"} ! drug transport
is_a: GO:1901374 {is_inferred="true"} ! acetate ester transport

[Term]
id: GO:0015871 ! choline transport
+is_a: GO:0006836 {is_inferred="true"} ! neurotransmitter transport
is_a: GO:0015695 {is_inferred="true"} ! organic cation transport
is_a: GO:0015696 {is_inferred="true"} ! ammonium transport

[Term]
id: GO:0015872 ! dopamine transport
is_a: GO:0015696 {is_inferred="true"} ! ammonium transport
+is_a: GO:0015893 {is_inferred="true"} ! drug transport
is_a: GO:0051937 {is_inferred="true"} ! catecholamine transport

[Term]
@@ -16234,13 +23533,16 @@

[Term]
id: GO:0015877 ! bipterin transport
+is_a: GO:0051182 {is_inferred="true"} ! coenzyme transport
is_a: GO:0071702 {is_inferred="true"} ! organic substance transport
is_a: GO:0071705 {is_inferred="true"} ! nitrogen compound transport

[Term]
id: GO:0015878 ! biotin transport
is_a: GO:0015718 {is_inferred="true"} ! monocarboxylic acid transport
+is_a: GO:0015893 {is_inferred="true"} ! drug transport
is_a: GO:0042886 {is_inferred="true"} ! amide transport
+is_a: GO:0051182 {is_inferred="true"} ! coenzyme transport
is_a: GO:0072348 {is_inferred="true"} ! sulfur compound transport

[Term]
@@ -16257,12 +23559,14 @@
```

[Term]
id: GO:0015881 ! creatine transport
is_a: GO:0006865 {is_inferred="true"} ! amino acid transport
+is_a: GO:0015893 {is_inferred="true"} ! drug transport
is_a: GO:0072337 {is_inferred="true"} ! modified amino acid transport

[Term]
id: GO:0015882 ! L-ascorbic acid transport
is_a: GO:0015749 {is_inferred="true"} ! monosaccharide transport
is_a: GO:0046942 {is_inferred="true"} ! carboxylic acid transport
+is_a: GO:0051182 {is_inferred="true"} ! coenzyme transport

[Term]
id: GO:0015883 ! FAD transport
@@ -16273,6 +23577,7 @@

[Term]
id: GO:0015884 ! folic acid transport
is_a: GO:0006835 {is_inferred="true"} ! dicarboxylic acid transport
+is_a: GO:0015893 {is_inferred="true"} ! drug transport
is_a: GO:0042886 {is_inferred="true"} ! amide transport
is_a: GO:0072337 {is_inferred="true"} ! modified amino acid transport

@@ -16298,11 +23603,14 @@

[Term]
id: GO:0015888 ! thiamine transport
+is_a: GO:0015893 {is_inferred="true"} ! drug transport
is_a: GO:0045117 {is_inferred="true"} !azole transport
is_a: GO:0072348 {is_inferred="true"} ! sulfur compound transport

[Term]
id: GO:0015889 ! cobalamin transport
+is_a: GO:0015893 {is_inferred="true"} ! drug transport
+is_a: GO:0051181 {is_inferred="true"} ! cofactor transport
is_a: GO:0071702 {is_inferred="true"} ! organic substance transport
is_a: GO:0071705 {is_inferred="true"} ! nitrogen compound transport

@@ -16312,6 +23620,10 @@
is_a: GO:1901264 {is_inferred="true"} ! carbohydrate derivative transport

[Term]
+id: GO:0015891 ! siderophore transport
+is_a: GO:0051181 {is_inferred="true"} ! cofactor transport
+

+ [Term]
id: GO:0015894 ! acriflavine transport
is_a: GO:0006821 {is_inferred="true"} ! chloride transport
is_a: GO:0015695 {is_inferred="true"} ! organic cation transport
@@ -16357,6 +23669,8 @@

[Term]
id: GO:0015903 ! fluconazole transport
is_a: GO:0015850 {is_inferred="true"} ! organic hydroxy compound transport
+is_a: GO:0015893 {is_inferred="true"} ! drug transport
+is_a: GO:0042908 {is_inferred="true"} ! xenobiotic transport
is_a: GO:0045117 {is_inferred="true"} !azole transport

[Term]
@@ -16370,7 +23684,9 @@

[Term]
id: GO:0015906 ! sulfathiazole transport
+is_a: GO:0015893 {is_inferred="true"} ! drug transport
is_a: GO:0042886 {is_inferred="true"} ! amide transport
+is_a: GO:0042908 {is_inferred="true"} ! xenobiotic transport
is_a: GO:0045117 {is_inferred="true"} !azole transport
is_a: GO:0072348 {is_inferred="true"} ! sulfur compound transport

@@ -16471,6 +23787,7 @@

[Term]

id: GO:0015942 ! formate metabolic process
 +is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
 is_a: GO:0032787 {is_inferred="true"} ! monocarboxylic acid metabolic process

[Term]

@@ -17020,6 +24337,7 @@

[Term]

id: GO:0016168 ! chlorophyll binding
 is_a: GO:0046906 {is_inferred="true"} ! tetrapyrrole binding
 +is_a: GO:0048037 {is_inferred="true"} ! cofactor binding

[Term]

id: GO:0016169 ! bacteriochlorophyll c binding
 @@ -17058,6 +24376,7 @@

[Term]

id: GO:0016208 ! AMP binding
 +is_a: GO:0008144 {is_inferred="true"} ! drug binding
 is_a: GO:0032559 {is_inferred="true"} ! adenylyl ribonucleotide binding
 is_a: GO:0043168 {is_inferred="true"} ! anion binding
 is_a: GO:0043169 {is_inferred="true"} ! cation binding
 @@ -17231,7 +24550,9 @@

[Term]

id: GO:0016594 ! glycine binding
 +is_a: GO:0008144 {is_inferred="true"} ! drug binding
 is_a: GO:0016597 {is_inferred="true"} ! amino acid binding
 +is_a: GO:0042165 {is_inferred="true"} ! neurotransmitter binding
 is_a: GO:0043169 {is_inferred="true"} ! cation binding

[Term]

@@ -17265,6 +24586,18 @@
 is_a: GO:0099095 {is_inferred="true"} ! ligand-gated anion channel activity

[Term]

+id: GO:0016999 ! antibiotic metabolic process
 +is_a: GO:0009404 {is_inferred="true"} ! toxin metabolic process

+

+ [Term]

+id: GO:0017000 ! antibiotic biosynthetic process
 +is_a: GO:0009403 {is_inferred="true"} ! toxin biosynthetic process

+

+ [Term]

+id: GO:0017001 ! antibiotic catabolic process
 +is_a: GO:0009407 {is_inferred="true"} ! toxin catabolic process

+

+ [Term]

id: GO:0017015 ! regulation of transforming growth factor beta receptor signaling pathway
 is_a: GO:0090092 {is_inferred="true"} ! regulation of transmembrane receptor protein serine/threonine kinase signaling pathway
 is_a: GO:1903844 {is_inferred="true"} ! regulation of cellular response to transforming growth factor beta stimulus
 @@ -17390,6 +24723,7 @@

[Term]

id: GO:0018189 ! pyrroloquinoline quinone biosynthetic process
 is_a: GO:0018130 {is_inferred="true"} ! heterocycle biosynthetic process
 +is_a: GO:0042364 {is_inferred="true"} ! water-soluble vitamin biosynthetic process
 is_a: GO:0072351 {is_inferred="true"} ! tricarboxylic acid biosynthetic process
 is_a: GO:1901362 {is_inferred="true"} ! organic cyclic compound biosynthetic process
 is_a: GO:1901566 {is_inferred="true"} ! organonitrogen compound biosynthetic process
 @@ -17466,6 +24800,7 @@

[Term]

id: GO:0018874 ! benzoate metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0032787 {is_inferred="true"} ! monocarboxylic acid metabolic process
is_a: GO:0042537 {is_inferred="true"} ! benzene-containing compound metabolic process

@@ -17489,6 +24824,7 @@

[Term]

id: GO:0018881 ! bromoxynil metabolic process
+is_a: GO:0006805 {is_inferred="true"} ! xenobiotic metabolic process
is_a: GO:0018958 {is_inferred="true"} ! phenol-containing compound metabolic process
is_a: GO:0042537 {is_inferred="true"} ! benzene-containing compound metabolic process
is_a: GO:0050898 {is_inferred="true"} ! nitrile metabolic process

@@ -17512,7 +24848,7 @@

[Term]

id: GO:0018885 ! carbon tetrachloride metabolic process
-is_a: GO:0042196 {is_inferred="true"} ! chlorinated hydrocarbon metabolic process
+is_a: GO:0071704 {is_inferred="true"} ! organic substance metabolic process

[Term]

id: GO:0018887 ! 4-carboxy-4'-sulfoazobenzene metabolic process

@@ -17527,6 +24863,7 @@

[Term]

id: GO:0018889 ! 2-chloro-N-isopropylacetanilide metabolic process
+is_a: GO:0006805 {is_inferred="true"} ! xenobiotic metabolic process
is_a: GO:0042537 {is_inferred="true"} ! benzene-containing compound metabolic process
is_a: GO:0043603 {is_inferred="true"} ! cellular amide metabolic process
is_a: GO:1901564 {is_inferred="true"} ! organonitrogen compound metabolic process

@@ -17547,24 +24884,28 @@

[Term]

id: GO:0018893 ! dibenzofuran metabolic process
is_a: GO:0006725 {is_inferred="true"} ! cellular aromatic compound metabolic process
+is_a: GO:0006805 {is_inferred="true"} ! xenobiotic metabolic process
is_a: GO:0046483 {is_inferred="true"} ! heterocycle metabolic process
is_a: GO:1901360 {is_inferred="true"} ! organic cyclic compound metabolic process

[Term]

id: GO:0018894 ! dibenzo-p-dioxin metabolic process
is_a: GO:0006725 {is_inferred="true"} ! cellular aromatic compound metabolic process
+is_a: GO:0006805 {is_inferred="true"} ! xenobiotic metabolic process
is_a: GO:0046483 {is_inferred="true"} ! heterocycle metabolic process
is_a: GO:1901360 {is_inferred="true"} ! organic cyclic compound metabolic process

[Term]

id: GO:0018895 ! dibenzothiophene metabolic process
is_a: GO:0006790 {is_inferred="true"} ! sulfur compound metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0046483 {is_inferred="true"} ! heterocycle metabolic process
is_a: GO:1901360 {is_inferred="true"} ! organic cyclic compound metabolic process

[Term]

id: GO:0018896 ! dibenzothiophene catabolic process
is_a: GO:0018895 {is_inferred="true"} ! dibenzothiophene metabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:0044273 {is_inferred="true"} ! sulfur compound catabolic process
is_a: GO:0046700 {is_inferred="true"} ! heterocycle catabolic process
is_a: GO:1901361 {is_inferred="true"} ! organic cyclic compound catabolic process

@@ -17576,14 +24917,16 @@

[Term]

id: GO:0018899 ! 1,2-dichloroethane metabolic process
-is_a: GO:0042196 {is_inferred="true"} ! chlorinated hydrocarbon metabolic process
+is_a: GO:0071704 {is_inferred="true"} ! organic substance metabolic process

[Term]

id: GO:0018900 ! dichloromethane metabolic process
-is_a: GO:0042196 {is_inferred="true"} ! chlorinated hydrocarbon metabolic process
+is_a: GO:0071704 {is_inferred="true"} ! organic substance metabolic process

[Term]

id: GO:0018901 ! 2,4-dichlorophenoxyacetic acid metabolic process
+is_a: GO:0006805 {is_inferred="true"} ! xenobiotic metabolic process
+is_a: GO:0009850 {is_inferred="true"} ! auxin metabolic process
is_a: GO:0018904 {is_inferred="true"} ! ether metabolic process
is_a: GO:0032787 {is_inferred="true"} ! monocarboxylic acid metabolic process
is_a: GO:0042537 {is_inferred="true"} ! benzene-containing compound metabolic process
@@ -17611,6 +24954,7 @@

[Term]

id: GO:0018907 ! dimethyl sulfoxide metabolic process
is_a: GO:0006790 {is_inferred="true"} ! sulfur compound metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0071704 {is_inferred="true"} ! organic substance metabolic process

[Term]

@@ -17628,6 +24972,7 @@

[Term]

id: GO:0018912 ! 1,4-dichlorobenzene metabolic process
+is_a: GO:0017143 {is_inferred="true"} ! insecticide metabolic process
is_a: GO:0042537 {is_inferred="true"} ! benzene-containing compound metabolic process

[Term]

@@ -17646,16 +24991,19 @@

[Term]

id: GO:0018917 ! fluorene metabolic process
is_a: GO:0006725 {is_inferred="true"} ! cellular aromatic compound metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:1901360 {is_inferred="true"} ! organic cyclic compound metabolic process

[Term]

id: GO:0018918 ! gallate metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0018958 {is_inferred="true"} ! phenol-containing compound metabolic process
is_a: GO:0032787 {is_inferred="true"} ! monocarboxylic acid metabolic process
is_a: GO:0042537 {is_inferred="true"} ! benzene-containing compound metabolic process

[Term]

id: GO:0018919 ! gamma-1,2,3,4,5,6-hexachlorocyclohexane metabolic process
+is_a: GO:0017143 {is_inferred="true"} ! insecticide metabolic process
is_a: GO:0019497 {is_inferred="true"} ! hexachlorocyclohexane metabolic process

[Term]

@@ -17706,17 +25054,19 @@

[Term]

id: GO:0018930 ! 3-methylquinoline metabolic process
is_a: GO:0006725 {is_inferred="true"} ! cellular aromatic compound metabolic process
+is_a: GO:0006805 {is_inferred="true"} ! xenobiotic metabolic process
is_a: GO:0046483 {is_inferred="true"} ! heterocycle metabolic process
is_a: GO:1901360 {is_inferred="true"} ! organic cyclic compound metabolic process
is_a: GO:1901564 {is_inferred="true"} ! organonitrogen compound metabolic process

[Term]

id: GO:0018931 ! naphthalene metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0090420 {is_inferred="true"} ! naphthalene-containing compound metabolic process

[Term]

id: GO:0018933 ! nicotine metabolic process
-is_a: GO:0008152 {is_inferred="true"} ! metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process

```
[Term]
id: GO:0018934 ! nitrilotriacetate metabolic process
@@ -17726,6 +25076,11 @@
[Term]
id: GO:0018937 ! nitroglycerin metabolic process
is_a: GO:0006807 {is_inferred="true"} ! nitrogen compound metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
+is_a: GO:0071704 {is_inferred="true"} ! organic substance metabolic process
+
+[Term]
+id: GO:0018938 ! 2-nitropropane metabolic process
is_a: GO:0071704 {is_inferred="true"} ! organic substance metabolic process

[Term]
@@ -17778,6 +25133,7 @@
is_a: GO:0006790 {is_inferred="true"} ! sulfur compound metabolic process
is_a: GO:0006796 {is_inferred="true"} ! phosphate-containing compound metabolic
process
is_a: GO:0006807 {is_inferred="true"} ! nitrogen compound metabolic process
+is_a: GO:0017143 {is_inferred="true"} ! insecticide metabolic process
is_a: GO:0019637 {is_inferred="true"} ! organophosphate metabolic process

[Term]
@@ -17788,11 +25144,14 @@
[Term]
id: GO:0018954 ! pentaerythritol tetranitrate metabolic process
is_a: GO:0006807 {is_inferred="true"} ! nitrogen compound metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0071704 {is_inferred="true"} ! organic substance metabolic process

[Term]
id: GO:0018955 ! phenanthrene metabolic process
is_a: GO:0006725 {is_inferred="true"} ! cellular aromatic compound metabolic process
+is_a: GO:0006805 {is_inferred="true"} ! xenobiotic metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:1901360 {is_inferred="true"} ! organic cyclic compound metabolic process

[Term]
@@ -17853,6 +25212,7 @@

[Term]
id: GO:0018970 ! toluene metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0072490 {is_inferred="true"} ! toluene-containing compound metabolic process

[Term]
@@ -17874,15 +25234,19 @@

[Term]
id: GO:0018977 ! 1,1,1-trichloro-2,2-bis-(4-chlorophenyl)ethane metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0042196 {is_inferred="true"} ! chlorinated hydrocarbon metabolic process
is_a: GO:0042537 {is_inferred="true"} ! benzene-containing compound metabolic process

[Term]
id: GO:0018979 ! trichloroethylene metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0042196 {is_inferred="true"} ! chlorinated hydrocarbon metabolic process

[Term]
id: GO:0018980 ! 2,4,5-trichlorophenoxyacetic acid metabolic process
+is_a: GO:0006805 {is_inferred="true"} ! xenobiotic metabolic process
+is_a: GO:0009850 {is_inferred="true"} ! auxin metabolic process
is_a: GO:0018904 {is_inferred="true"} ! ether metabolic process
is_a: GO:0032787 {is_inferred="true"} ! monocarboxylic acid metabolic process
is_a: GO:0042537 {is_inferred="true"} ! benzene-containing compound metabolic process
@@ -17895,6 +25259,7 @@
```

[Term]
id: GO:0018982 ! vanillin metabolic process
is_a: GO:0006081 {is_inferred="true"} ! cellular aldehyde metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0018904 {is_inferred="true"} ! ether metabolic process
is_a: GO:0018958 {is_inferred="true"} ! phenol-containing compound metabolic process
is_a: GO:0042537 {is_inferred="true"} ! benzene-containing compound metabolic process
@@ -17905,8 +25270,8 @@

[Term]
id: GO:0018984 ! naphthalenesulfonate metabolic process
+is_a: GO:0006082 {is_inferred="true"} ! organic acid metabolic process
is_a: GO:0006790 {is_inferred="true"} ! sulfur compound metabolic process
-is_a: GO:0071704 {is_inferred="true"} ! organic substance metabolic process

[Term]
id: GO:0018985 ! pronuclear envelope synthesis
@@ -17947,6 +25312,12 @@

[Term]
id: GO:0019182 ! histamine-gated chloride channel activity
is_a: GO:0005254 {is_inferred="true"} ! chloride channel activity
+is_a: GO:0022835 {is_inferred="true"} ! transmitter-gated channel activity
+is_a: GO:0099095 {is_inferred="true"} ! ligand-gated anion channel activity
+
+[Term]
+id: GO:0019183 ! histamine-gated chloride channel complex
+is_a: GO:0098878 {is_inferred="true"} ! neurotransmitter receptor complex

[Term]
id: GO:0019191 ! cellobiose transmembrane transporter activity
@@ -18070,17 +25441,19 @@

[Term]
id: GO:0019260 ! 1,2-dichloroethane catabolic process
is_a: GO:0018899 {is_inferred="true"} ! 1,2-dichloroethane metabolic process
-is_a: GO:0042205 {is_inferred="true"} ! chlorinated hydrocarbon catabolic process
+is_a: GO:1901575 {is_inferred="true"} ! organic substance catabolic process

[Term]
id: GO:0019261 ! 1,4-dichlorobenzene catabolic process
is_a: GO:0018912 {is_inferred="true"} ! 1,4-dichlorobenzene metabolic process
is_a: GO:0019439 {is_inferred="true"} ! aromatic compound catabolic process
+is_a: GO:0046701 {is_inferred="true"} ! insecticide catabolic process
is_a: GO:1901361 {is_inferred="true"} ! organic cyclic compound catabolic process

[Term]
id: GO:0019262 ! N-acetylneuraminate catabolic process
is_a: GO:0006054 {is_inferred="true"} ! N-acetylneuraminate metabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:0046348 {is_inferred="true"} ! amino sugar catabolic process
is_a: GO:0046395 {is_inferred="true"} ! carboxylic acid catabolic process

@@ -18109,11 +25482,13 @@
id: GO:0019270 ! aerobactin biosynthetic process
is_a: GO:0042398 {is_inferred="true"} ! cellular modified amino acid biosynthetic process
is_a: GO:0046442 {is_inferred="true"} ! aerobactin metabolic process
+is_a: GO:0051188 {is_inferred="true"} ! cofactor biosynthetic process
is_a: GO:0072351 {is_inferred="true"} ! tricarboxylic acid biosynthetic process

[Term]
id: GO:0019271 ! aerobactin transport
is_a: GO:0006842 {is_inferred="true"} ! tricarboxylic acid transport
+is_a: GO:0015891 {is_inferred="true"} ! siderophore transport
is_a: GO:0072337 {is_inferred="true"} ! modified amino acid transport

[Term]
@@ -18173,14 +25548,14 @@


```
[Term]
id: GO:0019295 ! coenzyme M biosynthetic process
+is_a: GO:0016053 {is_inferred="true"} ! organic acid biosynthetic process
is_a: GO:0019296 {is_inferred="true"} ! coenzyme M metabolic process
is_a: GO:0044272 {is_inferred="true"} ! sulfur compound biosynthetic process
-is_a: GO:1901576 {is_inferred="true"} ! organic substance biosynthetic process

[Term]
id: GO:0019296 ! coenzyme M metabolic process
+is_a: GO:0006082 {is_inferred="true"} ! organic acid metabolic process
is_a: GO:0006790 {is_inferred="true"} ! sulfur compound metabolic process
-is_a: GO:0071704 {is_inferred="true"} ! organic substance metabolic process

[Term]
id: GO:0019297 ! coenzyme B metabolic process
@@ -18353,6 +25728,8 @@
is_a: GO:0018952 {is_inferred="true"} ! parathion metabolic process
is_a: GO:0044273 {is_inferred="true"} ! sulfur compound catabolic process
is_a: GO:0046434 {is_inferred="true"} ! organophosphate catabolic process
+is_a: GO:0046701 {is_inferred="true"} ! insecticide catabolic process
+is_a: GO:0051410 {is_inferred="true"} ! detoxification of nitrogen compound

[Term]
id: GO:0019340 ! dibenzofuran catabolic process
@@ -18525,7 +25902,7 @@
[Term]
id: GO:0019382 ! carbon tetrachloride catabolic process
is_a: GO:0018885 {is_inferred="true"} ! carbon tetrachloride metabolic process
-is_a: GO:0042205 {is_inferred="true"} ! chlorinated hydrocarbon catabolic process
+is_a: GO:1901575 {is_inferred="true"} ! organic substance catabolic process

[Term]
id: GO:0019383 ! (+)-camphor catabolic process
@@ -18547,6 +25924,7 @@
[Term]
id: GO:0019386 ! methanogenesis, from carbon dioxide
is_a: GO:0015948 {is_inferred="true"} ! methanogenesis
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process

[Term]
id: GO:0019387 ! methanogenesis, from methanol
@@ -18593,6 +25971,7 @@
id: GO:0019396 ! gallate catabolic process
is_a: GO:0018918 {is_inferred="true"} ! gallate metabolic process
is_a: GO:0019336 {is_inferred="true"} ! phenol-containing compound catabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:0072329 {is_inferred="true"} ! monocarboxylic acid catabolic process

[Term]
@@ -18645,7 +26024,9 @@

[Term]
id: GO:0019415 ! acetate biosynthetic process from carbon monoxide
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0019413 {is_inferred="true"} ! acetate biosynthetic process
+is_a: GO:0042133 {is_inferred="true"} ! neurotransmitter metabolic process

[Term]
id: GO:0019427 ! acetyl-CoA biosynthetic process from acetate
@@ -18664,6 +26045,7 @@
id: GO:0019429 ! fluorene catabolic process
is_a: GO:0018917 {is_inferred="true"} ! fluorene metabolic process
is_a: GO:0019439 {is_inferred="true"} ! aromatic compound catabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:1901361 {is_inferred="true"} ! organic cyclic compound catabolic process
```

[Term]
@@ -18826,6 +26208,7 @@
[Term]
id: GO:0019477 ! L-lysine catabolic process
is_a: GO:0006554 {is_inferred="true"} ! lysine catabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:0046440 {is_inferred="true"} ! L-lysine metabolic process

[Term]
@@ -18836,16 +26219,19 @@
[Term]
id: GO:0019482 ! beta-alanine metabolic process
is_a: GO:0006520 {is_inferred="true"} ! cellular amino acid metabolic process
+is_a: GO:0042133 {is_inferred="true"} ! neurotransmitter metabolic process

[Term]
id: GO:0019483 ! beta-alanine biosynthetic process
is_a: GO:0008652 {is_inferred="true"} ! cellular amino acid biosynthetic process
is_a: GO:0019482 {is_inferred="true"} ! beta-alanine metabolic process
+is_a: GO:0042136 {is_inferred="true"} ! neurotransmitter biosynthetic process

[Term]
id: GO:0019484 ! beta-alanine catabolic process
is_a: GO:0009063 {is_inferred="true"} ! cellular amino acid catabolic process
is_a: GO:0019482 {is_inferred="true"} ! beta-alanine metabolic process
+is_a: GO:0042135 {is_inferred="true"} ! neurotransmitter catabolic process

[Term]
id: GO:0019485 ! beta-alanine catabolic process to L-alanine
@@ -18949,6 +26335,7 @@
is_a: GO:0044273 {is_inferred="true"} ! sulfur compound catabolic process
is_a: GO:0046130 {is_inferred="true"} ! purine ribonucleoside catabolic process
is_a: GO:0046498 {is_inferred="true"} ! S-adenosylhomocysteine metabolic process
+is_a: GO:0051187 {is_inferred="true"} ! cofactor catabolic process
is_a: GO:1901606 {is_inferred="true"} ! alpha-amino acid catabolic process

[Term]
@@ -18960,8 +26347,13 @@
is_a: GO:0005990 {is_inferred="true"} ! lactose catabolic process

[Term]
+id: GO:0019517 ! L-threonine catabolic process to D-lactate
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
+
+[Term]
id: GO:0019518 ! L-threonine catabolic process to glycine
is_a: GO:0006544 {is_inferred="true"} ! glycine metabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process

[Term]
id: GO:0019519 ! pentitol metabolic process
@@ -19008,13 +26400,17 @@

[Term]
id: GO:0019529 ! taurine catabolic process
+is_a: GO:0016054 {is_inferred="true"} ! organic acid catabolic process
is_a: GO:0019530 {is_inferred="true"} ! taurine metabolic process
+is_a: GO:0042178 {is_inferred="true"} ! xenobiotic catabolic process
is_a: GO:0044273 {is_inferred="true"} ! sulfur compound catabolic process
is_a: GO:1901565 {is_inferred="true"} ! organonitrogen compound catabolic process

[Term]
id: GO:0019530 ! taurine metabolic process
+is_a: GO:0006082 {is_inferred="true"} ! organic acid metabolic process
is_a: GO:0006790 {is_inferred="true"} ! sulfur compound metabolic process
+is_a: GO:0006805 {is_inferred="true"} ! xenobiotic metabolic process
is_a: GO:1901564 {is_inferred="true"} ! organonitrogen compound metabolic process

```
[Term]
@@ -19051,6 +26447,7 @@
is_a: GO:0019438 {is_inferred="true"} ! aromatic compound biosynthetic process
is_a: GO:0019536 {is_inferred="true"} ! vibriobactin metabolic process
is_a: GO:0043604 {is_inferred="true"} ! amide biosynthetic process
+is_a: GO:0051188 {is_inferred="true"} ! cofactor biosynthetic process
is_a: GO:1901362 {is_inferred="true"} ! organic cyclic compound biosynthetic process
is_a: GO:1901566 {is_inferred="true"} ! organonitrogen compound biosynthetic process
```

```
@@ -19068,6 +26465,7 @@
```

```
[Term]
id: GO:0019541 ! propionate metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0046459 {is_inferred="true"} ! short-chain fatty acid metabolic process
```

```
[Term]
@@ -19079,6 +26477,7 @@
id: GO:0019543 ! propionate catabolic process
is_a: GO:0019541 {is_inferred="true"} ! propionate metabolic process
is_a: GO:0019626 {is_inferred="true"} ! short-chain fatty acid catabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
```

```
[Term]
id: GO:0019544 ! arginine catabolic process to glutamate
@@ -19296,8 +26695,8 @@
```

```
[Term]
id: GO:0019608 ! nicotine catabolic process
-is_a: GO:0009056 {is_inferred="true"} ! catabolic process
is_a: GO:0018933 {is_inferred="true"} ! nicotine metabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
```

```
[Term]
id: GO:0019609 ! 3-hydroxyphenylacetate metabolic process
@@ -19339,6 +26738,7 @@
```

```
[Term]
id: GO:0019619 ! 3,4-dihydroxybenzoate catabolic process
is_a: GO:0019614 {is_inferred="true"} ! catechol-containing compound catabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:0046278 {is_inferred="true"} ! 3,4-dihydroxybenzoate metabolic process
is_a: GO:0072329 {is_inferred="true"} ! monocarboxylic acid catabolic process
```

```
@@ -19555,6 +26955,7 @@
```

```
[Term]
id: GO:0019695 ! choline metabolic process
+is_a: GO:0042133 {is_inferred="true"} ! neurotransmitter metabolic process
is_a: GO:0071704 {is_inferred="true"} ! organic substance metabolic process
```

```
[Term]
@@ -19706,7 +27107,7 @@
```

```
[Term]
id: GO:0019825 ! oxygen binding
-is_a: GO:0005488 {is_inferred="true"} ! binding
+is_a: GO:0008144 {is_inferred="true"} ! drug binding
```

```
[Term]
id: GO:0019827 ! stem cell population maintenance
@@ -19732,16 +27133,19 @@
```

```
[Term]
id: GO:0019852 ! L-ascorbic acid metabolic process
is_a: GO:0005996 {is_inferred="true"} ! monosaccharide metabolic process
+is_a: GO:0006732 {is_inferred="true"} ! coenzyme metabolic process
is_a: GO:0019752 {is_inferred="true"} ! carboxylic acid metabolic process
```

[Term]

id: GO:0019853 ! L-ascorbic acid biosynthetic process

+is_a: GO:0009108 {is_inferred="true"} ! coenzyme biosynthetic process
 is_a: GO:0019852 {is_inferred="true"} ! L-ascorbic acid metabolic process
 is_a: GO:0046364 {is_inferred="true"} ! monosaccharide biosynthetic process
 is_a: GO:0046394 {is_inferred="true"} ! carboxylic acid biosynthetic process

[Term]

id: GO:0019854 ! L-ascorbic acid catabolic process

+is_a: GO:0009109 {is_inferred="true"} ! coenzyme catabolic process
 is_a: GO:0019852 {is_inferred="true"} ! L-ascorbic acid metabolic process
 is_a: GO:0046365 {is_inferred="true"} ! monosaccharide catabolic process
 is_a: GO:0046395 {is_inferred="true"} ! carboxylic acid catabolic process

@@ -19768,6 +27172,7 @@

[Term]

id: GO:0019860 ! uracil metabolic process

is_a: GO:0006206 {is_inferred="true"} ! pyrimidine nucleobase metabolic process
 +is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process

[Term]

id: GO:0019872 ! streptomycin biosynthetic process

@@ -19855,6 +27260,7 @@

[Term]

id: GO:0020037 ! heme binding

is_a: GO:0046906 {is_inferred="true"} ! tetrapyrrole binding
 +is_a: GO:0048037 {is_inferred="true"} ! cofactor binding

[Term]

id: GO:0021510 ! spinal cord development

@@ -20448,6 +27854,7 @@

[Term]

id: GO:0030170 ! pyridoxal phosphate binding

is_a: GO:0043168 {is_inferred="true"} ! anion binding
 +is_a: GO:0050662 {is_inferred="true"} ! coenzyme binding
 is_a: GO:0070279 {is_inferred="true"} ! vitamin B6 binding

[Term]

@@ -20476,13 +27883,21 @@

[Term]

id: GO:0030184 ! nitric oxide transmembrane transporter activity

+is_a: GO:0005326 {is_inferred="true"} ! neurotransmitter transporter activity
 +is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity
 is_a: GO:0015318 {is_inferred="true"} ! inorganic molecular entity transmembrane transporter activity

[Term]

id: GO:0030185 ! nitric oxide transport

+is_a: GO:0006836 {is_inferred="true"} ! neurotransmitter transport
 +is_a: GO:0015893 {is_inferred="true"} ! drug transport
 is_a: GO:0071705 {is_inferred="true"} ! nitrogen compound transport

[Term]

+id: GO:0030186 ! melatonin metabolic process

+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process

+

+ [Term]

id: GO:0030199 ! collagen fibril organization

is_a: GO:0071822 {is_inferred="true"} ! protein complex subunit organization
 is_a: GO:0097435 {is_inferred="true"} ! supramolecular fiber organization

@@ -20514,6 +27929,7 @@

[Term]

id: GO:0030205 ! dermatan sulfate metabolic process

is_a: GO:0006790 {is_inferred="true"} ! sulfur compound metabolic process
 +is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
 is_a: GO:0032787 {is_inferred="true"} ! monocarboxylic acid metabolic process

is_a: GO:1903510 {is_inferred="true"} ! mucopolysaccharide metabolic process

@@ -20540,6 +27956,7 @@

id: GO:0030209 ! dermatan sulfate catabolic process

is_a: GO:0006027 {is_inferred="true"} ! glycosaminoglycan catabolic process

is_a: GO:0030205 {is_inferred="true"} ! dermatan sulfate metabolic process

+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process

is_a: GO:0044273 {is_inferred="true"} ! sulfur compound catabolic process

is_a: GO:0072329 {is_inferred="true"} ! monocarboxylic acid catabolic process

@@ -20742,6 +28159,7 @@

[Term]

id: GO:0030417 ! nicotianamine metabolic process

+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process

is_a: GO:0046483 {is_inferred="true"} ! heterocycle metabolic process

is_a: GO:0072350 {is_inferred="true"} ! tricarboxylic acid metabolic process

is_a: GO:1901360 {is_inferred="true"} ! organic cyclic compound metabolic process

@@ -20756,6 +28174,7 @@

[Term]

id: GO:0030419 ! nicotianamine catabolic process

is_a: GO:0030417 {is_inferred="true"} ! nicotianamine metabolic process

+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process

is_a: GO:0046700 {is_inferred="true"} ! heterocycle catabolic process

is_a: GO:0072352 {is_inferred="true"} ! tricarboxylic acid catabolic process

is_a: GO:1901361 {is_inferred="true"} ! organic cyclic compound catabolic process

@@ -20913,10 +28332,8 @@

[Term]

id: GO:0030573 ! bile acid catabolic process

-is_a: GO:0006706 {is_inferred="true"} ! steroid catabolic process

is_a: GO:0008206 {is_inferred="true"} ! bile acid metabolic process

is_a: GO:0072329 {is_inferred="true"} ! monocarboxylic acid catabolic process

-is_a: GO:1901616 {is_inferred="true"} ! organic hydroxy compound catabolic process

[Term]

id: GO:0030574 ! collagen catabolic process

@@ -20988,6 +28405,10 @@

is_a: GO:0030647 {is_inferred="true"} ! aminoglycoside antibiotic metabolic process

[Term]

+id: GO:0030652 ! peptide antibiotic catabolic process

+is_a: GO:0051410 {is_inferred="true"} ! detoxification of nitrogen compound

+

+ [Term]

id: GO:0030653 ! beta-lactam antibiotic metabolic process

is_a: GO:1901360 {is_inferred="true"} ! organic cyclic compound metabolic process

@@ -21000,6 +28421,7 @@

[Term]

id: GO:0030655 ! beta-lactam antibiotic catabolic process

is_a: GO:0030653 {is_inferred="true"} ! beta-lactam antibiotic metabolic process

+is_a: GO:0051410 {is_inferred="true"} ! detoxification of nitrogen compound

is_a: GO:1901361 {is_inferred="true"} ! organic cyclic compound catabolic process

is_a: GO:1901565 {is_inferred="true"} ! organonitrogen compound catabolic process

@@ -21589,6 +29011,7 @@

[Term]

id: GO:0030975 ! thiamine binding

+is_a: GO:0008144 {is_inferred="true"} ! drug binding

is_a: GO:0097159 {is_inferred="true"} ! organic cyclic compound binding

is_a: GO:1901363 {is_inferred="true"} ! heterocyclic compound binding

is_a: GO:1901681 {is_inferred="true"} ! sulfur compound binding

@@ -21604,6 +29027,7 @@

[Term]

id: GO:0030977 ! taurine binding

is_a: GO:0043168 {is_inferred="true"} ! anion binding
 +is_a: GO:0043177 {is_inferred="true"} ! organic acid binding
 is_a: GO:1901681 {is_inferred="true"} ! sulfur compound binding

[Term]

@@ -21639,7 +29063,9 @@

[Term]

id: GO:0031000 ! response to caffeine
 +is_a: GO:0009410 {is_inferred="true"} ! response to xenobiotic stimulus
 is_a: GO:0014074 {is_inferred="true"} ! response to purine-containing compound
 +is_a: GO:0036270 {is_inferred="true"} ! response to diuretic
 is_a: GO:0043279 {is_inferred="true"} ! response to alkaloid

[Term]

@@ -21938,6 +29364,7 @@

id: GO:0031177 ! phosphopantetheine binding
 is_a: GO:0033218 {is_inferred="true"} ! amide binding
 is_a: GO:0043168 {is_inferred="true"} ! anion binding
 +is_a: GO:0048037 {is_inferred="true"} ! cofactor binding
 is_a: GO:0072341 {is_inferred="true"} ! modified amino acid binding

[Term]

@@ -22369,10 +29796,13 @@

id: GO:0031418 ! L-ascorbic acid binding
 is_a: GO:0031406 {is_inferred="true"} ! carboxylic acid binding
 is_a: GO:0048029 {is_inferred="true"} ! monosaccharide binding
 +is_a: GO:0050662 {is_inferred="true"} ! coenzyme binding

[Term]

id: GO:0031419 ! cobalamin binding
 +is_a: GO:0008144 {is_inferred="true"} ! drug binding
 is_a: GO:0046906 {is_inferred="true"} ! tetrapyrrole binding
 +is_a: GO:0048037 {is_inferred="true"} ! cofactor binding

[Term]

id: GO:0031420 ! alkali metal ion binding

@@ -22383,6 +29813,8 @@

is_a: GO:0001101 {is_inferred="true"} ! response to acid chemical
 is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound
 is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
 +is_a: GO:0097327 {is_inferred="true"} ! response to antineoplastic agent
 +is_a: GO:0097329 {is_inferred="true"} ! response to antimetabolite
 is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]

@@ -22551,6 +29983,7 @@

[Term]

id: GO:0031524 ! menthol metabolic process
 is_a: GO:0016098 {is_inferred="true"} ! monoterpenoid metabolic process
 +is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
 is_a: GO:1902652 {is_inferred="true"} ! secondary alcohol metabolic process

[Term]

@@ -22936,6 +30369,7 @@

[Term]

id: GO:0031919 ! vitamin B6 transport
 +is_a: GO:0015893 {is_inferred="true"} ! drug transport
 is_a: GO:0071702 {is_inferred="true"} ! organic substance transport
 is_a: GO:0071705 {is_inferred="true"} ! nitrogen compound transport

@@ -22944,6 +30378,7 @@

is_a: GO:0015695 {is_inferred="true"} ! organic cation transport
 is_a: GO:0015850 {is_inferred="true"} ! organic hydroxy compound transport
 is_a: GO:0031919 {is_inferred="true"} ! vitamin B6 transport
 +is_a: GO:0051181 {is_inferred="true"} ! cofactor transport

```
[Term]
id: GO:0031921 ! pyridoxal phosphate transport
@@ -22951,6 +30386,7 @@
is_a: GO:0015748 {is_inferred="true"} ! organophosphate ester transport
is_a: GO:0015850 {is_inferred="true"} ! organic hydroxy compound transport
is_a: GO:0031919 {is_inferred="true"} ! vitamin B6 transport
+is_a: GO:0051182 {is_inferred="true"} ! coenzyme transport

[Term]
id: GO:0031922 ! pyridoxamine transport
@@ -22963,30 +30399,39 @@
id: GO:0031923 ! pyridoxine transport
is_a: GO:0015850 {is_inferred="true"} ! organic hydroxy compound transport
is_a: GO:0031919 {is_inferred="true"} ! vitamin B6 transport
+is_a: GO:0051181 {is_inferred="true"} ! cofactor transport

[Term]
id: GO:0031924 ! vitamin B6 transmembrane transporter activity
+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity
is_a: GO:0090482 {is_inferred="true"} ! vitamin transmembrane transporter activity

[Term]
id: GO:0031925 ! pyridoxal transmembrane transporter activity
is_a: GO:0015101 {is_inferred="true"} ! organic cation transmembrane transporter
activity
+is_a: GO:0031924 {is_inferred="true"} ! vitamin B6 transmembrane transporter activity
+is_a: GO:0051184 {is_inferred="true"} ! cofactor transmembrane transporter activity
is_a: GO:1901618 {is_inferred="true"} ! organic hydroxy compound transmembrane
transporter activity

[Term]
id: GO:0031926 ! pyridoxal phosphate transmembrane transporter activity
is_a: GO:0008514 {is_inferred="true"} ! organic anion transmembrane transporter
activity
is_a: GO:0015605 {is_inferred="true"} ! organophosphate ester transmembrane
transporter activity
+is_a: GO:0031924 {is_inferred="true"} ! vitamin B6 transmembrane transporter activity
+is_a: GO:0051185 {is_inferred="true"} ! coenzyme transmembrane transporter activity
is_a: GO:1901618 {is_inferred="true"} ! organic hydroxy compound transmembrane
transporter activity

[Term]
id: GO:0031927 ! pyridoxamine transmembrane transporter activity
is_a: GO:0008519 {is_inferred="true"} ! ammonium transmembrane transporter activity
is_a: GO:0015101 {is_inferred="true"} ! organic cation transmembrane transporter
activity
+is_a: GO:0031924 {is_inferred="true"} ! vitamin B6 transmembrane transporter activity
is_a: GO:1901618 {is_inferred="true"} ! organic hydroxy compound transmembrane
transporter activity

[Term]
id: GO:0031928 ! pyridoxine transmembrane transporter activity
+is_a: GO:0031924 {is_inferred="true"} ! vitamin B6 transmembrane transporter activity
+is_a: GO:0051184 {is_inferred="true"} ! cofactor transmembrane transporter activity
is_a: GO:1901618 {is_inferred="true"} ! organic hydroxy compound transmembrane
transporter activity

[Term]
@@ -23179,7 +30624,6 @@

[Term]
id: GO:0032052 ! bile acid binding
-is_a: GO:0005496 {is_inferred="true"} ! steroid binding
is_a: GO:0033293 {is_inferred="true"} ! monocarboxylic acid binding

[Term]
```

@@ -23566,11 +31010,13 @@

[Term]

id: GO:0032217 ! riboflavin transmembrane transporter activity

is_a: GO:0008514 {is_inferred="true"} ! organic anion transmembrane transporter activity

+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity

is_a: GO:0090482 {is_inferred="true"} ! vitamin transmembrane transporter activity

[Term]

id: GO:0032218 ! riboflavin transport

is_a: GO:0015711 {is_inferred="true"} ! organic anion transport

+is_a: GO:0015893 {is_inferred="true"} ! drug transport

is_a: GO:0071705 {is_inferred="true"} ! nitrogen compound transport

[Term]

@@ -23643,6 +31089,7 @@

[Term]

id: GO:0032238 ! adenosine transport

is_a: GO:0015858 {is_inferred="true"} ! nucleoside transport

+is_a: GO:0015893 {is_inferred="true"} ! drug transport

[Term]

id: GO:0032239 ! regulation of nucleobase-containing compound transport

@@ -23677,12 +31124,18 @@

is_a: GO:0032242 {is_inferred="true"} ! regulation of nucleoside transport

[Term]

+id: GO:0032249 ! regulation of adenosine transport

+is_a: GO:2001023 {is_inferred="true"} ! regulation of response to drug

+

+ [Term]

id: GO:0032250 ! negative regulation of adenosine transport

is_a: GO:0032249 {is_inferred="true"} ! regulation of adenosine transport

+is_a: GO:2001024 {is_inferred="true"} ! negative regulation of response to drug

[Term]

id: GO:0032251 ! positive regulation of adenosine transport

is_a: GO:0032249 {is_inferred="true"} ! regulation of adenosine transport

+is_a: GO:2001025 {is_inferred="true"} ! positive regulation of response to drug

[Term]

id: GO:0032252 ! secretory granule localization

@@ -23912,12 +31365,14 @@

[Term]

id: GO:0032355 ! response to estradiol

+is_a: GO:0009725 {is_inferred="true"} ! response to hormone

is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound

is_a: GO:0033993 {is_inferred="true"} ! response to lipid

is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]

id: GO:0032361 ! pyridoxal phosphate catabolic process

+is_a: GO:0009109 {is_inferred="true"} ! coenzyme catabolic process

is_a: GO:0019439 {is_inferred="true"} ! aromatic compound catabolic process

is_a: GO:0042820 {is_inferred="true"} ! vitamin B6 catabolic process

is_a: GO:0042822 {is_inferred="true"} ! pyridoxal phosphate metabolic process

@@ -24283,6 +31738,7 @@

[Term]

id: GO:0032495 ! response to muramyl dipeptide

+is_a: GO:0042493 {is_inferred="true"} ! response to drug

is_a: GO:1901652 {is_inferred="true"} ! response to peptide

[Term]

@@ -24292,6 +31748,7 @@


```
[Term]
id: GO:0032500 ! muramyl dipeptide binding
+is_a: GO:0008144 {is_inferred="true"} ! drug binding
is_a: GO:0042277 {is_inferred="true"} ! peptide binding
is_a: GO:0097367 {is_inferred="true"} ! carbohydrate derivative binding
@@ -24481,6 +31938,7 @@
```

```
[Term]
id: GO:0032570 ! response to progesterone
+is_a: GO:0042493 {is_inferred="true"} ! response to drug
is_a: GO:0048545 {is_inferred="true"} ! response to steroid hormone
is_a: GO:1901654 {is_inferred="true"} ! response to ketone
@@ -24490,6 +31948,7 @@
```

```
[Term]
id: GO:0032573 ! response to phylloquinone
+is_a: GO:0033273 {is_inferred="true"} ! response to vitamin
is_a: GO:1901654 {is_inferred="true"} ! response to ketone
```

```
[Term]
@@ -25148,7 +32607,7 @@
```

```
[Term]
id: GO:0032782 ! bile acid secretion
-is_a: GO:0015721 {is_inferred="true"} ! bile acid and bile salt transport
+is_a: GO:0015718 {is_inferred="true"} ! monocarboxylic acid transport
```

```
[Term]
id: GO:0032784 ! regulation of DNA-templated transcription, elongation
@@ -25356,6 +32815,10 @@
is_a: GO:0120111 {is_inferred="true"} ! neuron projection cytoplasm
```

```
[Term]
+id: GO:0032841 ! calcitonin binding
+is_a: GO:0008144 {is_inferred="true"} ! drug binding
+
+[Term]
id: GO:0032847 ! regulation of cellular pH reduction
is_a: GO:0050794 {is_inferred="true"} ! regulation of cellular process
is_a: GO:0051453 {is_inferred="true"} ! regulation of intracellular pH
@@ -25426,6 +32889,7 @@
```

```
[Term]
id: GO:0032882 ! regulation of chitin metabolic process
+is_a: GO:0031323 {is_inferred="true"} ! regulation of cellular metabolic process
is_a: GO:0051171 {is_inferred="true"} ! regulation of nitrogen compound metabolic process
```

```
[Term]
@@ -25950,6 +33414,7 @@
```

```
[Term]
id: GO:0033049 ! clavulanic acid metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0032787 {is_inferred="true"} ! monocarboxylic acid metabolic process
is_a: GO:0043603 {is_inferred="true"} ! cellular amide metabolic process
is_a: GO:0046483 {is_inferred="true"} ! heterocycle metabolic process
@@ -26342,7 +33807,9 @@
```

```
[Term]
id: GO:0033198 ! response to ATP
+is_a: GO:0007584 {is_inferred="true"} ! response to nutrient
is_a: GO:0014074 {is_inferred="true"} ! response to purine-containing compound
+is_a: GO:0042493 {is_inferred="true"} ! response to drug
is_a: GO:0046683 {is_inferred="true"} ! response to organophosphorus
```

is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

@@ -26460,18 +33927,21 @@

id: GO:0033247 ! regulation of penicillin catabolic process

is_a: GO:0033244 {is_inferred="true"} ! regulation of penicillin metabolic process

is_a: GO:0034251 {is_inferred="true"} ! regulation of cellular amide catabolic process

+is_a: GO:0048583 {is_inferred="true"} ! regulation of response to stimulus

[Term]

id: GO:0033248 ! negative regulation of penicillin catabolic process

is_a: GO:0033245 {is_inferred="true"} ! negative regulation of penicillin metabolic process

is_a: GO:0033247 {is_inferred="true"} ! regulation of penicillin catabolic process

is_a: GO:0034252 {is_inferred="true"} ! negative regulation of cellular amide

catabolic process

+is_a: GO:0048585 {is_inferred="true"} ! negative regulation of response to stimulus

[Term]

id: GO:0033249 ! positive regulation of penicillin catabolic process

is_a: GO:0033246 {is_inferred="true"} ! positive regulation of penicillin metabolic process

is_a: GO:0033247 {is_inferred="true"} ! regulation of penicillin catabolic process

is_a: GO:0034253 {is_inferred="true"} ! positive regulation of cellular amide

catabolic process

+is_a: GO:0048584 {is_inferred="true"} ! positive regulation of response to stimulus

[Term]

id: GO:0033252 ! regulation of beta-lactamase activity

@@ -26496,6 +33966,7 @@

[Term]

id: GO:0033265 ! choline binding

+is_a: GO:0042165 {is_inferred="true"} ! neurotransmitter binding

is_a: GO:0070405 {is_inferred="true"} ! ammonium ion binding

[Term]

@@ -26514,12 +33985,14 @@

[Term]

id: GO:0033272 ! myo-inositol hexakisphosphate transport

+is_a: GO:0015893 {is_inferred="true"} ! drug transport

is_a: GO:0033271 {is_inferred="true"} ! myo-inositol phosphate transport

[Term]

id: GO:0033274 ! response to vitamin B2

is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound

is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound

+is_a: GO:0042493 {is_inferred="true"} ! response to drug

[Term]

id: GO:0033280 ! response to vitamin D

@@ -26621,6 +34094,7 @@

[Term]

id: GO:0033306 ! phytol metabolic process

is_a: GO:0016101 {is_inferred="true"} ! diterpenoid metabolic process

+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process

is_a: GO:0034308 {is_inferred="true"} ! primary alcohol metabolic process

is_a: GO:1903173 {is_inferred="true"} ! fatty alcohol metabolic process

@@ -26702,6 +34176,7 @@

[Term]

id: GO:0033329 ! kaempferol O-glucoside metabolic process

+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process

is_a: GO:0051552 {is_inferred="true"} ! flavone metabolic process

is_a: GO:1901615 {is_inferred="true"} ! organic hydroxy compound metabolic process

is_a: GO:1901804 {is_inferred="true"} ! beta-glucoside metabolic process

@@ -27014,6 +34489,7 @@

[Term]

id: GO:0033494 ! ferulate metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0018904 {is_inferred="true"} ! ether metabolic process
is_a: GO:0018958 {is_inferred="true"} ! phenol-containing compound metabolic process
is_a: GO:0032787 {is_inferred="true"} ! monocarboxylic acid metabolic process
@@ -27089,6 +34565,7 @@

[Term]

id: GO:0033510 ! luteolin metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:1901615 {is_inferred="true"} ! organic hydroxy compound metabolic process

[Term]

@@ -27098,6 +34575,7 @@

[Term]

id: GO:0033517 ! myo-inositol hexakisphosphate metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0043647 {is_inferred="true"} ! inositol phosphate metabolic process

[Term]

@@ -27188,6 +34666,7 @@

[Term]

id: GO:0033574 ! response to testosterone
+is_a: GO:0009725 {is_inferred="true"} ! response to hormone
is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
is_a: GO:0033993 {is_inferred="true"} ! response to lipid
is_a: GO:1901654 {is_inferred="true"} ! response to ketone
@@ -27244,6 +34723,7 @@

id: GO:0033590 ! response to cobalamin
is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound
is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
+is_a: GO:0042493 {is_inferred="true"} ! response to drug

[Term]

id: GO:0033591 ! response to L-ascorbic acid
@@ -27257,7 +34737,9 @@

[Term]

id: GO:0033595 ! response to genistein
+is_a: GO:0009725 {is_inferred="true"} ! response to hormone
is_a: GO:0033594 {is_inferred="true"} ! response to hydroxyisoflavone
+is_a: GO:0097327 {is_inferred="true"} ! response to antineoplastic agent

[Term]

id: GO:0033599 ! regulation of mammary gland epithelial cell proliferation
@@ -27283,12 +34765,14 @@
is_a: GO:0014059 {is_inferred="true"} ! regulation of dopamine secretion
is_a: GO:0033604 {is_inferred="true"} ! negative regulation of catecholamine secretion
is_a: GO:0043271 {is_inferred="true"} ! negative regulation of ion transport
+is_a: GO:2001024 {is_inferred="true"} ! negative regulation of response to drug

[Term]

id: GO:0033603 ! positive regulation of dopamine secretion
is_a: GO:0014059 {is_inferred="true"} ! regulation of dopamine secretion
is_a: GO:0033605 {is_inferred="true"} ! positive regulation of catecholamine secretion
is_a: GO:0043270 {is_inferred="true"} ! positive regulation of ion transport
+is_a: GO:2001025 {is_inferred="true"} ! positive regulation of response to drug

[Term]

id: GO:0033609 ! oxalate metabolic process
@@ -28031,6 +35515,7 @@

[Term]

id: GO:0034213 ! quinolinate catabolic process

+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process

is_a: GO:0043649 {is_inferred="true"} ! dicarboxylic acid catabolic process

is_a: GO:0046874 {is_inferred="true"} ! quinolinate metabolic process

is_a: GO:0072526 {is_inferred="true"} ! pyridine-containing compound catabolic process

@@ -28218,6 +35703,7 @@

[Term]

id: GO:0034275 ! kynurenic acid metabolic process

is_a: GO:0006725 {is_inferred="true"} ! cellular aromatic compound metabolic process

+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process

is_a: GO:0032787 {is_inferred="true"} ! monocarboxylic acid metabolic process

is_a: GO:0046483 {is_inferred="true"} ! heterocycle metabolic process

is_a: GO:1901360 {is_inferred="true"} ! organic cyclic compound metabolic process

@@ -28479,7 +35965,9 @@

[Term]

id: GO:0034465 ! response to carbon monoxide

+is_a: GO:0009636 {is_inferred="true"} ! response to toxic substance

is_a: GO:0010033 {is_inferred="true"} ! response to organic substance

+is_a: GO:0042493 {is_inferred="true"} ! response to drug

is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]

@@ -28550,6 +36038,7 @@

id: GO:0034516 ! response to vitamin B6

is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound

is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound

+is_a: GO:0042493 {is_inferred="true"} ! response to drug

[Term]

id: GO:0034517 ! ribophagy

@@ -28608,6 +36097,7 @@

[Term]

id: GO:0034617 ! tetrahydrobiopterin binding

+is_a: GO:0008144 {is_inferred="true"} ! drug binding

is_a: GO:0097159 {is_inferred="true"} ! organic cyclic compound binding

is_a: GO:1901363 {is_inferred="true"} ! heterocyclic compound binding

@@ -28641,6 +36131,7 @@

is_a: GO:0008514 {is_inferred="true"} ! organic anion transmembrane transporter activity

is_a: GO:0035673 {is_inferred="true"} ! oligopeptide transmembrane transporter activity

is_a: GO:0042937 {is_inferred="true"} ! tripeptide transporter activity

+is_a: GO:0051184 {is_inferred="true"} ! cofactor transmembrane transporter activity

is_a: GO:0072349 {is_inferred="true"} ! modified amino acid transmembrane transporter activity

is_a: GO:1901682 {is_inferred="true"} ! sulfur compound transmembrane transporter activity

@@ -28648,6 +36139,7 @@

id: GO:0034635 ! glutathione transport

is_a: GO:0015711 {is_inferred="true"} ! organic anion transport

is_a: GO:0042939 {is_inferred="true"} ! tripeptide transport

+is_a: GO:0051181 {is_inferred="true"} ! cofactor transport

is_a: GO:0072337 {is_inferred="true"} ! modified amino acid transport

is_a: GO:0072348 {is_inferred="true"} ! sulfur compound transport

@@ -28682,6 +36174,7 @@

[Term]

id: GO:0034650 ! cortisol metabolic process

is_a: GO:0008211 {is_inferred="true"} ! glucocorticoid metabolic process

+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process

is_a: GO:0042180 {is_inferred="true"} ! cellular ketone metabolic process

is_a: GO:1901615 {is_inferred="true"} ! organic hydroxy compound metabolic process

@@ -28760,6 +36253,7 @@

[Term]

id: GO:0034697 ! response to prostaglandin I
+is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
is_a: GO:0034694 {is_inferred="true"} ! response to prostaglandin

[Term]

@@ -29028,6 +36522,7 @@

[Term]

id: GO:0035075 ! response to ecdysone
+is_a: GO:0009725 {is_inferred="true"} ! response to hormone
is_a: GO:0036314 {is_inferred="true"} ! response to sterol
is_a: GO:0097305 {is_inferred="true"} ! response to alcohol
is_a: GO:1901654 {is_inferred="true"} ! response to ketone
@@ -29050,7 +36545,8 @@

[Term]

id: GO:0035094 ! response to nicotine
-is_a: GO:0042221 {is_inferred="true"} ! response to chemical
+is_a: GO:0009636 {is_inferred="true"} ! response to toxic substance
+is_a: GO:0042493 {is_inferred="true"} ! response to drug

[Term]

id: GO:0035100 ! ecdysone binding
@@ -29152,6 +36648,7 @@

[Term]

id: GO:0035240 ! dopamine binding
+is_a: GO:0008144 {is_inferred="true"} ! drug binding
is_a: GO:0070405 {is_inferred="true"} ! ammonium ion binding
is_a: GO:1901338 {is_inferred="true"} ! catecholamine binding

@@ -29174,14 +36671,17 @@

[Term]

id: GO:0035274 ! diphenyl phthalate binding
+is_a: GO:0008144 {is_inferred="true"} ! drug binding
is_a: GO:0097159 {is_inferred="true"} ! organic cyclic compound binding

[Term]

id: GO:0035275 ! dibutyl phthalate binding
+is_a: GO:0008144 {is_inferred="true"} ! drug binding
is_a: GO:0097159 {is_inferred="true"} ! organic cyclic compound binding

[Term]

id: GO:0035276 ! ethanol binding
+is_a: GO:0008144 {is_inferred="true"} ! drug binding
is_a: GO:0043168 {is_inferred="true"} ! anion binding
is_a: GO:0043178 {is_inferred="true"} ! alcohol binding

@@ -29286,18 +36786,19 @@

[Term]

id: GO:0035348 ! acetyl-CoA transmembrane transport
-is_a: GO:0015916 {is_inferred="true"} ! fatty-acyl-CoA transport
+is_a: GO:0015876 {is_inferred="true"} ! acetyl-CoA transport
is_a: GO:0098656 {is_inferred="true"} ! anion transmembrane transport

[Term]

id: GO:0035349 ! coenzyme A transmembrane transport
-is_a: GO:0015711 {is_inferred="true"} ! organic anion transport
+is_a: GO:0015880 {is_inferred="true"} ! coenzyme A transport
is_a: GO:0071106 {is_inferred="true"} ! adenosine 3',5'-bisphosphate transmembrane transport

is_a: GO:0098656 {is_inferred="true"} ! anion transmembrane transport

[Term]

id: GO:0035350 ! FAD transmembrane transport

is_a: GO:0015711 {is_inferred="true"} ! organic anion transport

+is_a: GO:0051181 {is_inferred="true"} ! cofactor transport

is_a: GO:0098656 {is_inferred="true"} ! anion transmembrane transport

is_a: GO:1901679 {is_inferred="true"} ! nucleotide transmembrane transport

@@ -29383,12 +36884,12 @@

[Term]

id: GO:0035378 ! carbon dioxide transmembrane transport

+is_a: GO:0006855 {is_inferred="true"} ! drug transmembrane transport

is_a: GO:0015670 {is_inferred="true"} ! carbon dioxide transport

-is_a: GO:0055085 {is_inferred="true"} ! transmembrane transport

[Term]

id: GO:0035379 ! carbon dioxide transmembrane transporter activity

-is_a: GO:0022857 {is_inferred="true"} ! transmembrane transporter activity

+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity

[Term]

id: GO:0035381 ! ATP-gated ion channel activity

@@ -29517,6 +37018,7 @@

[Term]

id: GO:0035438 ! cyclic-di-GMP binding

+is_a: GO:0008144 {is_inferred="true"} ! drug binding

is_a: GO:0030551 {is_inferred="true"} ! cyclic nucleotide binding

is_a: GO:0032561 {is_inferred="true"} ! guanyl ribonucleotide binding

is_a: GO:0043168 {is_inferred="true"} ! anion binding

@@ -29546,6 +37048,7 @@

[Term]

id: GO:0035445 ! borate transmembrane transport

+is_a: GO:0006855 {is_inferred="true"} ! drug transmembrane transport

is_a: GO:0046713 {is_inferred="true"} ! borate transport

is_a: GO:0098661 {is_inferred="true"} ! inorganic anion transmembrane transport

@@ -29620,6 +37123,7 @@

id: GO:0035498 ! carnosine metabolic process

is_a: GO:0006518 {is_inferred="true"} ! peptide metabolic process

is_a: GO:0006575 {is_inferred="true"} ! cellular modified amino acid metabolic process

+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process

is_a: GO:0019752 {is_inferred="true"} ! carboxylic acid metabolic process

[Term]

@@ -30154,6 +37658,7 @@

[Term]

id: GO:0035923 ! flurbiprofen binding

+is_a: GO:0008144 {is_inferred="true"} ! drug binding

is_a: GO:0033293 {is_inferred="true"} ! monocarboxylic acid binding

is_a: GO:0097159 {is_inferred="true"} ! organic cyclic compound binding

@@ -30170,30 +37675,31 @@

id: GO:0035936 ! testosterone secretion

is_a: GO:0006869 {is_inferred="true"} ! lipid transport

is_a: GO:0015850 {is_inferred="true"} ! organic hydroxy compound transport

-is_a: GO:0046903 {is_inferred="true"} ! secretion

+is_a: GO:0046879 {is_inferred="true"} ! hormone secretion

[Term]

id: GO:0035938 ! estradiol secretion

is_a: GO:0006869 {is_inferred="true"} ! lipid transport

is_a: GO:0015850 {is_inferred="true"} ! organic hydroxy compound transport

-is_a: GO:0046903 {is_inferred="true"} ! secretion
 +is_a: GO:0046879 {is_inferred="true"} ! hormone secretion

[Term]

id: GO:0035941 ! androstenedione secretion
 is_a: GO:0006869 {is_inferred="true"} ! lipid transport
 -is_a: GO:0046903 {is_inferred="true"} ! secretion
 +is_a: GO:0046879 {is_inferred="true"} ! hormone secretion

[Term]

id: GO:0035942 ! dehydroepiandrosterone secretion
 is_a: GO:0006869 {is_inferred="true"} ! lipid transport
 is_a: GO:0015850 {is_inferred="true"} ! organic hydroxy compound transport
 -is_a: GO:0046903 {is_inferred="true"} ! secretion
 +is_a: GO:0046879 {is_inferred="true"} ! hormone secretion

[Term]

id: GO:0035943 ! estrone secretion
 is_a: GO:0006869 {is_inferred="true"} ! lipid transport
 is_a: GO:0015850 {is_inferred="true"} ! organic hydroxy compound transport
 -is_a: GO:0046903 {is_inferred="true"} ! secretion
 +is_a: GO:0015893 {is_inferred="true"} ! drug transport
 +is_a: GO:0046879 {is_inferred="true"} ! hormone secretion

[Term]

id: GO:0035947 ! regulation of gluconeogenesis by regulation of transcription from RNA polymerase II promoter
 @@ -30358,6 +37864,7 @@

[Term]

id: GO:0036039 ! curcumin metabolic process
 +is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
 is_a: GO:0018904 {is_inferred="true"} ! ether metabolic process
 is_a: GO:0018958 {is_inferred="true"} ! phenol-containing compound metabolic process
 is_a: GO:0042180 {is_inferred="true"} ! cellular ketone metabolic process
 @@ -30367,6 +37874,7 @@
 is_a: GO:0019336 {is_inferred="true"} ! phenol-containing compound catabolic process
 is_a: GO:0036039 {is_inferred="true"} ! curcumin metabolic process
 is_a: GO:0042182 {is_inferred="true"} ! ketone catabolic process
 +is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
 is_a: GO:1901502 {is_inferred="true"} ! ether catabolic process

[Term]

@@ -30428,6 +37936,7 @@

[Term]

id: GO:0036088 ! D-serine catabolic process
 is_a: GO:0019478 {is_inferred="true"} ! D-amino acid catabolic process
 +is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
 is_a: GO:0070178 {is_inferred="true"} ! D-serine metabolic process

[Term]

@@ -30496,6 +38005,7 @@

[Term]

id: GO:0036109 ! alpha-linolenic acid metabolic process
 is_a: GO:0001676 {is_inferred="true"} ! long-chain fatty acid metabolic process
 +is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
 is_a: GO:0033559 {is_inferred="true"} ! unsaturated fatty acid metabolic process

[Term]

@@ -30543,6 +38053,14 @@

is_a: GO:0097237 {is_inferred="true"} ! cellular response to toxic substance

[Term]

+id: GO:0036161 ! calcitonin secretion
 +is_a: GO:0015893 {is_inferred="true"} ! drug transport

+

+ [Term]

```

+id: GO:0036162 ! oxytocin secretion
+is_a: GO:0015893 {is_inferred="true"} ! drug transport
+
+[Term]
id: GO:0036167 ! phenotypic switching in response to host
is_a: GO:0044764 {is_inferred="true"} ! multi-organism cellular process

@@ -30598,16 +38116,19 @@
[Term]
id: GO:0036229 ! L-glutamine import
is_a: GO:0006868 {is_inferred="true"} ! glutamine transport
+is_a: GO:0015893 {is_inferred="true"} ! drug transport
is_a: GO:0043092 {is_inferred="true"} ! L-amino acid import

[Term]
id: GO:0036231 ! L-threonine import
is_a: GO:0015826 {is_inferred="true"} ! threonine transport
+is_a: GO:0015893 {is_inferred="true"} ! drug transport
is_a: GO:0043092 {is_inferred="true"} ! L-amino acid import

[Term]
id: GO:0036232 ! L-tyrosine import
is_a: GO:0015828 {is_inferred="true"} ! tyrosine transport
+is_a: GO:0015893 {is_inferred="true"} ! drug transport
is_a: GO:0043092 {is_inferred="true"} ! L-amino acid import

[Term]
@@ -30617,11 +38138,13 @@

[Term]
id: GO:0036241 ! glutamate catabolic process to 4-hydroxybutyrate
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0046459 {is_inferred="true"} ! short-chain fatty acid metabolic process
is_a: GO:1901615 {is_inferred="true"} ! organic hydroxy compound metabolic process

[Term]
id: GO:0036245 ! cellular response to menadione
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:1901655 {is_inferred="true"} ! cellular response to ketone

[Term]
@@ -30650,9 +38173,11 @@
id: GO:0036253 ! response to amiloride
is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound
is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
+is_a: GO:0036270 {is_inferred="true"} ! response to diuretic

[Term]
id: GO:0036254 ! cellular response to amiloride
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:0036253 {is_inferred="true"} ! response to amiloride
is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
is_a: GO:0071417 {is_inferred="true"} ! cellular response to organonitrogen compound
@@ -30682,28 +38207,37 @@

[Term]
id: GO:0036271 ! response to methylphenidate
+is_a: GO:0042493 {is_inferred="true"} ! response to drug
is_a: GO:0060359 {is_inferred="true"} ! response to ammonium ion

[Term]
id: GO:0036272 ! response to gemcitabine
+is_a: GO:0009410 {is_inferred="true"} ! response to xenobiotic stimulus
is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound
is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
+is_a: GO:0097327 {is_inferred="true"} ! response to antineoplastic agent
+is_a: GO:0097329 {is_inferred="true"} ! response to antimetabolite

```


is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]

id: GO:0036273 ! response to statin

is_a: GO:0010033 {is_inferred="true"} ! response to organic substance

+is_a: GO:0042493 {is_inferred="true"} ! response to drug

is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]

id: GO:0036274 ! response to lapatinib

is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound

is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound

+is_a: GO:0097327 {is_inferred="true"} ! response to antineoplastic agent

is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]

id: GO:0036275 ! response to 5-fluorouracil

+is_a: GO:0009410 {is_inferred="true"} ! response to xenobiotic stimulus

is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound

+is_a: GO:0097327 {is_inferred="true"} ! response to antineoplastic agent

+is_a: GO:0097329 {is_inferred="true"} ! response to antimetabolite

[Term]

id: GO:0036276 ! response to antidepressant

@@ -30716,6 +38250,7 @@

[Term]

id: GO:0036280 ! cellular response to L-canavanine

is_a: GO:0071230 {is_inferred="true"} ! cellular response to amino acid stimulus

+is_a: GO:0097237 {is_inferred="true"} ! cellular response to toxic substance

is_a: GO:1901354 {is_inferred="true"} ! response to L-canavanine

[Term]

@@ -30727,12 +38262,14 @@

is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound

is_a: GO:0045472 {is_inferred="true"} ! response to ether

is_a: GO:0071867 {is_inferred="true"} ! response to monoamine

+is_a: GO:0097332 {is_inferred="true"} ! response to antipsychotic drug

is_a: GO:1901654 {is_inferred="true"} ! response to ketone

[Term]

id: GO:0036288 ! response to ximelagatran

is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound

is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound

+is_a: GO:0061476 {is_inferred="true"} ! response to anticoagulant

is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]

@@ -30757,6 +38294,10 @@

is_a: GO:1901701 {is_inferred="true"} ! cellular response to oxygen-containing compound

[Term]

+id: GO:0036321 ! ghrelin secretion

+is_a: GO:0015893 {is_inferred="true"} ! drug transport

+

+ [Term]

id: GO:0036345 ! platelet maturation

is_a: GO:0071695 {is_inferred="true"} ! anatomical structure maturation

@@ -30780,7 +38321,9 @@

[Term]

id: GO:0036378 ! calcitriol biosynthetic process from calciol

+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process

is_a: GO:0042368 {is_inferred="true"} ! vitamin D biosynthetic process

+is_a: GO:0042446 {is_inferred="true"} ! hormone biosynthetic process

is_a: GO:0046173 {is_inferred="true"} ! polyol biosynthetic process

[Term]
@@ -31261,6 +38804,7 @@

[Term]
id: GO:0042120 ! alginic acid metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0019752 {is_inferred="true"} ! carboxylic acid metabolic process

[Term]
@@ -31271,6 +38815,7 @@

[Term]
id: GO:0042122 ! alginic acid catabolic process
is_a: GO:0042120 {is_inferred="true"} ! alginic acid metabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:0046395 {is_inferred="true"} ! carboxylic acid catabolic process

[Term]
@@ -31313,6 +38858,8 @@

[Term]
id: GO:0042166 ! acetylcholine binding
+is_a: GO:0008144 {is_inferred="true"} ! drug binding
+is_a: GO:0042562 {is_inferred="true"} ! hormone binding
is_a: GO:0070405 {is_inferred="true"} ! ammonium ion binding

[Term]
@@ -31364,6 +38911,7 @@

[Term]
id: GO:0042183 ! formate catabolic process
is_a: GO:0015942 {is_inferred="true"} ! formate metabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:0072329 {is_inferred="true"} ! monocarboxylic acid catabolic process

[Term]
@@ -31392,6 +38940,7 @@
is_a: GO:0018977 {is_inferred="true"} ! 1,1,1-trichloro-2,2-bis-(4-chlorophenyl)ethane
metabolic process
is_a: GO:0019439 {is_inferred="true"} ! aromatic compound catabolic process
is_a: GO:0042205 {is_inferred="true"} ! chlorinated hydrocarbon catabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:1901361 {is_inferred="true"} ! organic cyclic compound catabolic process

[Term]
@@ -31405,6 +38954,7 @@
id: GO:0042190 ! vanillin catabolic process
is_a: GO:0018982 {is_inferred="true"} ! vanillin metabolic process
is_a: GO:0019336 {is_inferred="true"} ! phenol-containing compound catabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:0046185 {is_inferred="true"} ! aldehyde catabolic process
is_a: GO:1901502 {is_inferred="true"} ! ether catabolic process

@@ -31450,16 +39000,20 @@

[Term]
id: GO:0042201 ! N-cyclopropylmelamine metabolic process
+is_a: GO:0017143 {is_inferred="true"} ! insecticide metabolic process
is_a: GO:0018965 {is_inferred="true"} ! s-triazine compound metabolic process

[Term]
id: GO:0042202 ! N-cyclopropylmelamine catabolic process
is_a: GO:0042201 {is_inferred="true"} ! N-cyclopropylmelamine metabolic process
is_a: GO:0042204 {is_inferred="true"} ! s-triazine compound catabolic process
+is_a: GO:0046701 {is_inferred="true"} ! insecticide catabolic process
+is_a: GO:0051410 {is_inferred="true"} ! detoxification of nitrogen compound

[Term]

id: GO:0042203 ! toluene catabolic process
is_a: GO:0018970 {is_inferred="true"} ! toluene metabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:0072491 {is_inferred="true"} ! toluene-containing compound catabolic process

[Term]

@@ -31525,6 +39079,7 @@

id: GO:0042216 ! phenanthrene catabolic process
is_a: GO:0018955 {is_inferred="true"} ! phenanthrene metabolic process
is_a: GO:0019439 {is_inferred="true"} ! aromatic compound catabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:1901361 {is_inferred="true"} ! organic cyclic compound catabolic process

[Term]

@@ -31545,9 +39100,11 @@

[Term]

id: GO:0042220 ! response to cocaine
+is_a: GO:0009410 {is_inferred="true"} ! response to xenobiotic stimulus
is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
is_a: GO:0043279 {is_inferred="true"} ! response to alkaloid
is_a: GO:0060359 {is_inferred="true"} ! response to ammonium ion
+is_a: GO:0072347 {is_inferred="true"} ! response to anesthetic
is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]

@@ -31833,10 +39390,14 @@

id: GO:0042366 ! cobalamin catabolic process
is_a: GO:0009235 {is_inferred="true"} ! cobalamin metabolic process
is_a: GO:0033015 {is_inferred="true"} ! tetrapyrrole catabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
+is_a: GO:0051187 {is_inferred="true"} ! cofactor catabolic process

[Term]

id: GO:0042367 ! biotin catabolic process
is_a: GO:0006768 {is_inferred="true"} ! biotin metabolic process
+is_a: GO:0009109 {is_inferred="true"} ! coenzyme catabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:0044273 {is_inferred="true"} ! sulfur compound catabolic process
is_a: GO:0046700 {is_inferred="true"} ! heterocycle catabolic process
is_a: GO:0072329 {is_inferred="true"} ! monocarboxylic acid catabolic process
@@ -31861,15 +39422,18 @@

[Term]

id: GO:0042372 ! phylloquinone biosynthetic process
+is_a: GO:0009110 {is_inferred="true"} ! vitamin biosynthetic process
is_a: GO:0042374 {is_inferred="true"} ! phylloquinone metabolic process
is_a: GO:1901663 {is_inferred="true"} ! quinone biosynthetic process

[Term]

id: GO:0042374 ! phylloquinone metabolic process
+is_a: GO:0006766 {is_inferred="true"} ! vitamin metabolic process
is_a: GO:1901661 {is_inferred="true"} ! quinone metabolic process

[Term]

id: GO:0042376 ! phylloquinone catabolic process
+is_a: GO:0009111 {is_inferred="true"} ! vitamin catabolic process
is_a: GO:0042374 {is_inferred="true"} ! phylloquinone metabolic process
is_a: GO:1901662 {is_inferred="true"} ! quinone catabolic process

@@ -31915,6 +39479,7 @@

[Term]

id: GO:0042412 ! taurine biosynthetic process
+is_a: GO:0016053 {is_inferred="true"} ! organic acid biosynthetic process
is_a: GO:0019530 {is_inferred="true"} ! taurine metabolic process
is_a: GO:0044272 {is_inferred="true"} ! sulfur compound biosynthetic process

```
is_a: GO:1901566 {is_inferred="true"} ! organonitrogen compound biosynthetic process
@@ -31940,6 +39505,7 @@
[Term]
id: GO:0042417 ! dopamine metabolic process
is_a: GO:0006584 {is_inferred="true"} ! catecholamine metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0097164 {is_inferred="true"} ! ammonium ion metabolic process

[Term]
@@ -31956,6 +39522,7 @@
id: GO:0042420 ! dopamine catabolic process
is_a: GO:0042417 {is_inferred="true"} ! dopamine metabolic process
is_a: GO:0042424 {is_inferred="true"} ! catecholamine catabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process

[Term]
id: GO:0042421 ! norepinephrine biosynthetic process
@@ -31982,21 +39549,29 @@
[Term]
id: GO:0042425 ! choline biosynthetic process
is_a: GO:0019695 {is_inferred="true"} ! choline metabolic process
+is_a: GO:0042136 {is_inferred="true"} ! neurotransmitter biosynthetic process

[Term]
id: GO:0042426 ! choline catabolic process
is_a: GO:0019695 {is_inferred="true"} ! choline metabolic process
+is_a: GO:0042135 {is_inferred="true"} ! neurotransmitter catabolic process

[Term]
id: GO:0042427 ! serotonin biosynthetic process
+is_a: GO:0042136 {is_inferred="true"} ! neurotransmitter biosynthetic process
is_a: GO:0042428 {is_inferred="true"} ! serotonin metabolic process
is_a: GO:0042435 {is_inferred="true"} ! indole-containing compound biosynthetic
process
is_a: GO:0046189 {is_inferred="true"} ! phenol-containing compound biosynthetic
process
is_a: GO:1901162 {is_inferred="true"} ! primary amino compound biosynthetic process

[Term]
+id: GO:0042428 ! serotonin metabolic process
+is_a: GO:0042133 {is_inferred="true"} ! neurotransmitter metabolic process
+
+[Term]
id: GO:0042429 ! serotonin catabolic process
is_a: GO:0019336 {is_inferred="true"} ! phenol-containing compound catabolic process
+is_a: GO:0042135 {is_inferred="true"} ! neurotransmitter catabolic process
is_a: GO:0042428 {is_inferred="true"} ! serotonin metabolic process
is_a: GO:0042436 {is_inferred="true"} ! indole-containing compound catabolic process
is_a: GO:1901161 {is_inferred="true"} ! primary amino compound catabolic process
@@ -32042,6 +39617,7 @@
id: GO:0042442 ! melatonin catabolic process
is_a: GO:0030186 {is_inferred="true"} ! melatonin metabolic process
is_a: GO:0042436 {is_inferred="true"} ! indole-containing compound catabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process

[Term]
id: GO:0042443 ! phenylethylamine metabolic process
@@ -32056,6 +39632,7 @@
[Term]
id: GO:0042448 ! progesterone metabolic process
is_a: GO:0008207 {is_inferred="true"} ! C21-steroid hormone metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0042180 {is_inferred="true"} ! cellular ketone metabolic process

[Term]
@@ -32090,6 +39667,7 @@
[Term]
```

id: GO:0042457 ! ethylene catabolic process
 is_a: GO:0009692 {is_inferred="true"} ! ethylene metabolic process
 +is_a: GO:0042447 {is_inferred="true"} ! hormone catabolic process
 is_a: GO:0043451 {is_inferred="true"} ! alkene catabolic process

[Term]

@@ -32216,7 +39794,9 @@

[Term]

id: GO:0042542 ! response to hydrogen peroxide
 is_a: GO:0000302 {is_inferred="true"} ! response to reactive oxygen species
 +is_a: GO:0009636 {is_inferred="true"} ! response to toxic substance
 is_a: GO:0010035 {is_inferred="true"} ! response to inorganic substance
 +is_a: GO:0042493 {is_inferred="true"} ! response to drug

[Term]

id: GO:0042544 ! melibiose biosynthetic process
 @@ -32293,6 +39873,7 @@

[Term]

id: GO:0042616 ! paclitaxel metabolic process
 is_a: GO:0016101 {is_inferred="true"} ! diterpenoid metabolic process
 +is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process

[Term]

id: GO:0042617 ! paclitaxel biosynthetic process
 @@ -32469,6 +40050,10 @@
 is_a: GO:0022412 {is_inferred="true"} ! cellular process involved in reproduction in multicellular organism

[Term]

+id: GO:0042701 ! progesterone secretion
 +is_a: GO:0015893 {is_inferred="true"} ! drug transport
 +

+ [Term]

id: GO:0042702 ! uterine wall growth
 is_a: GO:0040007 {is_inferred="true"} ! growth

@@ -32492,6 +40077,7 @@

id: GO:0042723 ! thiamine-containing compound metabolic process
 is_a: GO:0006725 {is_inferred="true"} ! cellular aromatic compound metabolic process
 is_a: GO:0006790 {is_inferred="true"} ! sulfur compound metabolic process
 +is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
 is_a: GO:0072527 {is_inferred="true"} ! pyrimidine-containing compound metabolic process

[Term]

@@ -32505,6 +40091,7 @@
 id: GO:0042725 ! thiamine-containing compound catabolic process
 is_a: GO:0019439 {is_inferred="true"} ! aromatic compound catabolic process
 is_a: GO:0042723 {is_inferred="true"} ! thiamine-containing compound metabolic process
 +is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
 is_a: GO:0044273 {is_inferred="true"} ! sulfur compound catabolic process
 is_a: GO:0072529 {is_inferred="true"} ! pyrimidine-containing compound catabolic process

@@ -32544,11 +40131,15 @@

[Term]

id: GO:0042743 ! hydrogen peroxide metabolic process
 +is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
 +is_a: GO:0051186 {is_inferred="true"} ! cofactor metabolic process
 is_a: GO:0072593 {is_inferred="true"} ! reactive oxygen species metabolic process

[Term]

id: GO:0042744 ! hydrogen peroxide catabolic process
 +is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
 is_a: GO:0042743 {is_inferred="true"} ! hydrogen peroxide metabolic process
 +is_a: GO:0051187 {is_inferred="true"} ! cofactor catabolic process

[Term]

id: GO:0042758 ! long-chain fatty acid catabolic process
 @@ -32605,6 +40196,7 @@

[Term]

id: GO:0042816 ! vitamin B6 metabolic process
 +is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
 is_a: GO:0072524 {is_inferred="true"} ! pyridine-containing compound metabolic process

[Term]

@@ -32612,6 +40204,7 @@
 is_a: GO:0006081 {is_inferred="true"} ! cellular aldehyde metabolic process
 is_a: GO:0006725 {is_inferred="true"} ! cellular aromatic compound metabolic process
 is_a: GO:0042816 {is_inferred="true"} ! vitamin B6 metabolic process
 +is_a: GO:0051186 {is_inferred="true"} ! cofactor metabolic process
 is_a: GO:1901615 {is_inferred="true"} ! organic hydroxy compound metabolic process

[Term]

@@ -32628,6 +40221,7 @@

[Term]

id: GO:0042820 ! vitamin B6 catabolic process
 +is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
 is_a: GO:0042816 {is_inferred="true"} ! vitamin B6 metabolic process
 is_a: GO:0072526 {is_inferred="true"} ! pyridine-containing compound catabolic process

@@ -32637,12 +40231,14 @@

is_a: GO:0042817 {is_inferred="true"} ! pyridoxal metabolic process
 is_a: GO:0042819 {is_inferred="true"} ! vitamin B6 biosynthetic process
 is_a: GO:0046184 {is_inferred="true"} ! aldehyde biosynthetic process
 +is_a: GO:0051188 {is_inferred="true"} ! cofactor biosynthetic process
 is_a: GO:1901617 {is_inferred="true"} ! organic hydroxy compound biosynthetic process

[Term]

id: GO:0042822 ! pyridoxal phosphate metabolic process
 is_a: GO:0006081 {is_inferred="true"} ! cellular aldehyde metabolic process
 is_a: GO:0006725 {is_inferred="true"} ! cellular aromatic compound metabolic process
 +is_a: GO:0006732 {is_inferred="true"} ! coenzyme metabolic process
 is_a: GO:0006796 {is_inferred="true"} ! phosphate-containing compound metabolic process
 is_a: GO:0019637 {is_inferred="true"} ! organophosphate metabolic process
 is_a: GO:0042816 {is_inferred="true"} ! vitamin B6 metabolic process
 @@ -32671,6 +40267,7 @@

[Term]

id: GO:0042836 ! D-glucarate metabolic process
 +is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
 is_a: GO:0019392 {is_inferred="true"} ! glucarate metabolic process

[Term]

@@ -32681,6 +40278,7 @@

[Term]

id: GO:0042838 ! D-glucarate catabolic process
 is_a: GO:0019394 {is_inferred="true"} ! glucarate catabolic process
 +is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
 is_a: GO:0042836 {is_inferred="true"} ! D-glucarate metabolic process

[Term]

@@ -32861,6 +40459,7 @@

[Term]

id: GO:0042870 ! D-glucarate transport
 +is_a: GO:0015893 {is_inferred="true"} ! drug transport
 is_a: GO:0042869 {is_inferred="true"} ! aldarate transport

[Term]

@@ -32883,6 +40482,7 @@

[Term]

id: GO:0042878 ! D-glucarate transmembrane transporter activity
+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity
is_a: GO:0042876 {is_inferred="true"} ! aldarate transmembrane transporter activity

[Term]

@@ -32932,6 +40532,10 @@

is_a: GO:0008028 {is_inferred="true"} ! monocarboxylic acid transmembrane transporter activity

[Term]

+id: GO:0042891 ! antibiotic transport
+is_a: GO:1901998 {is_inferred="true"} ! toxin transport
+

+ [Term]

id: GO:0042892 ! chloramphenicol transport
is_a: GO:0015791 {is_inferred="true"} ! polyol transport
is_a: GO:0042886 {is_inferred="true"} ! amide transport

@@ -32947,6 +40551,10 @@

is_a: GO:0042886 {is_inferred="true"} ! amide transport

[Term]

+id: GO:0042895 ! antibiotic transmembrane transporter activity
+is_a: GO:0019534 {is_inferred="true"} ! toxin transmembrane transporter activity
+

+ [Term]

id: GO:0042896 ! chloramphenicol transmembrane transporter activity
is_a: GO:0015166 {is_inferred="true"} ! polyol transmembrane transporter activity
is_a: GO:0042887 {is_inferred="true"} ! amide transmembrane transporter activity

@@ -32980,6 +40588,7 @@

[Term]

id: GO:0042905 ! 9-cis-retinoic acid metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0042573 {is_inferred="true"} ! retinoic acid metabolic process

[Term]

@@ -33015,6 +40624,7 @@

[Term]

id: GO:0042919 ! benzoate transport
is_a: GO:0015718 {is_inferred="true"} ! monocarboxylic acid transport
+is_a: GO:0015893 {is_inferred="true"} ! drug transport

[Term]

id: GO:0042920 ! 3-hydroxyphenylpropionic acid transport
@@ -33024,6 +40634,7 @@

[Term]

id: GO:0042925 ! benzoate transmembrane transporter activity
is_a: GO:0008028 {is_inferred="true"} ! monocarboxylic acid transmembrane transporter activity
+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity

[Term]

id: GO:0042926 ! 3-hydroxyphenylpropionic acid transmembrane transporter activity
@@ -33102,6 +40713,7 @@

[Term]

id: GO:0042942 ! D-serine transport
+is_a: GO:0015893 {is_inferred="true"} ! drug transport
is_a: GO:0032329 {is_inferred="true"} ! serine transport
is_a: GO:0042940 {is_inferred="true"} ! D-amino acid transport

@@ -33116,6 +40728,7 @@

[Term]

id: GO:0042945 ! D-serine transmembrane transporter activity
+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity
is_a: GO:0022889 {is_inferred="true"} ! serine transmembrane transporter activity
is_a: GO:0042943 {is_inferred="true"} ! D-amino acid transmembrane transporter activity

@@ -33131,6 +40744,7 @@

id: GO:0042948 ! salicin transport
is_a: GO:0015759 {is_inferred="true"} ! beta-glucoside transport
is_a: GO:0015850 {is_inferred="true"} ! organic hydroxy compound transport
+is_a: GO:0015893 {is_inferred="true"} ! drug transport

[Term]

id: GO:0042949 ! arbutin transport
@@ -33138,6 +40752,7 @@

[Term]

id: GO:0042950 ! salicin transmembrane transporter activity
+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity
is_a: GO:0015573 {is_inferred="true"} ! beta-glucoside transmembrane transporter activity
is_a: GO:0015665 {is_inferred="true"} ! alcohol transmembrane transporter activity

@@ -33468,6 +41083,7 @@

[Term]

id: GO:0043132 ! NAD transport
is_a: GO:0006862 {is_inferred="true"} ! nucleotide transport
+is_a: GO:0051182 {is_inferred="true"} ! coenzyme transport

[Term]

id: GO:0043134 ! regulation of hindgut contraction
@@ -33659,8 +41275,10 @@

[Term]

id: GO:0043278 ! response to morphine
+is_a: GO:0009410 {is_inferred="true"} ! response to xenobiotic stimulus
is_a: GO:0014072 {is_inferred="true"} ! response to isoquinoline alkaloid
is_a: GO:0060359 {is_inferred="true"} ! response to ammonium ion
+is_a: GO:0072347 {is_inferred="true"} ! response to anesthetic

[Term]

id: GO:0043279 ! response to alkaloid
@@ -33703,6 +41321,7 @@

[Term]

id: GO:0043295 ! glutathione binding
is_a: GO:0043168 {is_inferred="true"} ! anion binding
+is_a: GO:0048037 {is_inferred="true"} ! cofactor binding
is_a: GO:0072341 {is_inferred="true"} ! modified amino acid binding
is_a: GO:1900750 {is_inferred="true"} ! oligopeptide binding
is_a: GO:1901681 {is_inferred="true"} ! sulfur compound binding
@@ -33974,15 +41593,18 @@

[Term]

id: GO:0043396 ! corticotropin-releasing hormone secretion
+is_a: GO:0006836 {is_inferred="true"} ! neurotransmitter transport
is_a: GO:0030072 {is_inferred="true"} ! peptide hormone secretion

[Term]

id: GO:0043397 ! regulation of corticotropin-releasing hormone secretion
+is_a: GO:0051588 {is_inferred="true"} ! regulation of neurotransmitter transport
is_a: GO:0090276 {is_inferred="true"} ! regulation of peptide hormone secretion

[Term]

id: GO:0043400 ! cortisol secretion
is_a: GO:0015850 {is_inferred="true"} ! organic hydroxy compound transport
+is_a: GO:0015893 {is_inferred="true"} ! drug transport
is_a: GO:0035933 {is_inferred="true"} ! glucocorticoid secretion

[Term]
 @@ -34048,6 +41670,7 @@

[Term]
 id: GO:0043420 ! anthranilate metabolic process
 +is_a: GO:0006767 {is_inferred="true"} ! water-soluble vitamin metabolic process
 is_a: GO:0009072 {is_inferred="true"} ! aromatic amino acid family metabolic process
 is_a: GO:0032787 {is_inferred="true"} ! monocarboxylic acid metabolic process
 is_a: GO:0042537 {is_inferred="true"} ! benzene-containing compound metabolic process
 @@ -34055,6 +41678,7 @@

[Term]
 id: GO:0043421 ! anthranilate catabolic process
 is_a: GO:0009074 {is_inferred="true"} ! aromatic amino acid family catabolic process
 +is_a: GO:0042365 {is_inferred="true"} ! water-soluble vitamin catabolic process
 is_a: GO:0043420 {is_inferred="true"} ! anthranilate metabolic process
 is_a: GO:0072329 {is_inferred="true"} ! monocarboxylic acid catabolic process

@@ -34545,6 +42169,8 @@

[Term]
 id: GO:0043636 ! bisphenol A catabolic process
 is_a: GO:0019336 {is_inferred="true"} ! phenol-containing compound catabolic process
 +is_a: GO:0042447 {is_inferred="true"} ! hormone catabolic process
 +is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process

[Term]
 id: GO:0043637 ! puromycin metabolic process
 @@ -34559,6 +42185,7 @@
 id: GO:0043639 ! benzoate catabolic process
 is_a: GO:0018874 {is_inferred="true"} ! benzoate metabolic process
 is_a: GO:0019439 {is_inferred="true"} ! aromatic compound catabolic process
 +is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
 is_a: GO:0072329 {is_inferred="true"} ! monocarboxylic acid catabolic process
 is_a: GO:1901361 {is_inferred="true"} ! organic cyclic compound catabolic process

@@ -34705,6 +42332,7 @@

[Term]
 id: GO:0043879 ! glycolate transmembrane transporter activity
 is_a: GO:0008028 {is_inferred="true"} ! monocarboxylic acid transmembrane transporter activity
 +is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity
 is_a: GO:0015665 {is_inferred="true"} ! alcohol transmembrane transporter activity

[Term]
 @@ -34729,7 +42357,9 @@

[Term]
 id: GO:0043924 ! suramin binding
 +is_a: GO:0008144 {is_inferred="true"} ! drug binding
 is_a: GO:0043168 {is_inferred="true"} ! anion binding
 +is_a: GO:0043177 {is_inferred="true"} ! organic acid binding
 is_a: GO:0097159 {is_inferred="true"} ! organic cyclic compound binding
 is_a: GO:1901681 {is_inferred="true"} ! sulfur compound binding

@@ -35258,6 +42888,10 @@

is_a: GO:0048030 {is_inferred="true"} ! disaccharide binding

[Term]
 +id: GO:0044589 ! pectin binding
 +is_a: GO:0008144 {is_inferred="true"} ! drug binding
 +

+ [Term]
 id: GO:0044591 ! response to amylopectin
 is_a: GO:0010033 {is_inferred="true"} ! response to organic substance
 is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound
 @@ -35269,6 +42903,7 @@

[Term]

id: GO:0044597 ! daunorubicin metabolic process
is_a: GO:0006725 {is_inferred="true"} ! cellular aromatic compound metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0030638 {is_inferred="true"} ! polyketide metabolic process
is_a: GO:0097164 {is_inferred="true"} ! ammonium ion metabolic process
is_a: GO:1901360 {is_inferred="true"} ! organic cyclic compound metabolic process
@@ -35290,6 +42925,7 @@
id: GO:0044610 ! FMN transmembrane transporter activity
is_a: GO:0008514 {is_inferred="true"} ! organic anion transmembrane transporter activity
is_a: GO:0015215 {is_inferred="true"} ! nucleotide transmembrane transporter activity
+is_a: GO:0051185 {is_inferred="true"} ! coenzyme transmembrane transporter activity
is_a: GO:1901505 {is_inferred="true"} ! carbohydrate derivative transmembrane transporter activity

[Term]

@@ -36527,6 +44163,7 @@

[Term]

id: GO:0045428 ! regulation of nitric oxide biosynthetic process
+is_a: GO:0001505 {is_inferred="true"} ! regulation of neurotransmitter levels
is_a: GO:0031326 {is_inferred="true"} ! regulation of cellular biosynthetic process
is_a: GO:0051171 {is_inferred="true"} ! regulation of nitrogen compound metabolic process
is_a: GO:1903426 {is_inferred="true"} ! regulation of reactive oxygen species biosynthetic process
@@ -36562,16 +44199,20 @@

[Term]

id: GO:0045460 ! sterigmatocystin metabolic process
is_a: GO:0006725 {is_inferred="true"} ! cellular aromatic compound metabolic process
+is_a: GO:0043385 {is_inferred="true"} ! mycotoxin metabolic process
is_a: GO:1901376 {is_inferred="true"} ! organic heteropentacyclic compound metabolic process

[Term]

id: GO:0045461 ! sterigmatocystin biosynthetic process
is_a: GO:0019438 {is_inferred="true"} ! aromatic compound biosynthetic process
+is_a: GO:0043386 {is_inferred="true"} ! mycotoxin biosynthetic process
is_a: GO:0045460 {is_inferred="true"} ! sterigmatocystin metabolic process
is_a: GO:1901378 {is_inferred="true"} ! organic heteropentacyclic compound biosynthetic process

[Term]

id: GO:0045471 ! response to ethanol
+is_a: GO:0009636 {is_inferred="true"} ! response to toxic substance
+is_a: GO:0042493 {is_inferred="true"} ! response to drug
is_a: GO:0097305 {is_inferred="true"} ! response to alcohol

[Term]

@@ -36603,11 +44244,13 @@

id: GO:0045487 ! gibberellin catabolic process
is_a: GO:0009685 {is_inferred="true"} ! gibberellin metabolic process
is_a: GO:0016103 {is_inferred="true"} ! diterpenoid catabolic process
+is_a: GO:0042447 {is_inferred="true"} ! hormone catabolic process
is_a: GO:0046395 {is_inferred="true"} ! carboxylic acid catabolic process

[Term]

id: GO:0045488 ! pectin metabolic process
is_a: GO:0010393 {is_inferred="true"} ! galacturonan metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process

[Term]

id: GO:0045489 ! pectin biosynthetic process
@@ -36617,6 +44260,7 @@

[Term]

id: GO:0045490 ! pectin catabolic process
is_a: GO:0000272 {is_inferred="true"} ! polysaccharide catabolic process

```
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:0045488 {is_inferred="true"} ! pectin metabolic process

[Term]
@@ -36843,6 +44487,7 @@
[Term]
id: GO:0045574 ! sterigmatocystin catabolic process
is_a: GO:0019439 {is_inferred="true"} ! aromatic compound catabolic process
+is_a: GO:0043387 {is_inferred="true"} ! mycotoxin catabolic process
is_a: GO:0045460 {is_inferred="true"} ! sterigmatocystin metabolic process
is_a: GO:1901377 {is_inferred="true"} ! organic heteropentacyclic compound catabolic
process

@@ -38485,12 +46130,14 @@
id: GO:0046033 ! AMP metabolic process
is_a: GO:0009150 {is_inferred="true"} ! purine ribonucleotide metabolic process
is_a: GO:0009167 {is_inferred="true"} ! purine ribonucleoside monophosphate metabolic
process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process

[Term]
id: GO:0046034 ! ATP metabolic process
is_a: GO:0009150 {is_inferred="true"} ! purine ribonucleotide metabolic process
is_a: GO:0009167 {is_inferred="true"} ! purine ribonucleoside monophosphate metabolic
process
is_a: GO:0009205 {is_inferred="true"} ! purine ribonucleoside triphosphate metabolic
process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process

[Term]
id: GO:0046035 ! CMP metabolic process
@@ -38771,6 +46418,7 @@

[Term]
id: GO:0046085 ! adenosine metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0046128 {is_inferred="true"} ! purine ribonucleoside metabolic process

[Term]
@@ -39048,6 +46696,7 @@

[Term]
id: GO:0046146 ! tetrahydrobiopterin metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0034311 {is_inferred="true"} ! diol metabolic process
is_a: GO:0042558 {is_inferred="true"} ! pteridine-containing compound metabolic
process

@@ -39055,6 +46704,7 @@
id: GO:0046147 ! tetrahydrobiopterin catabolic process
is_a: GO:0034313 {is_inferred="true"} ! diol catabolic process
is_a: GO:0042560 {is_inferred="true"} ! pteridine-containing compound catabolic
process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:0046146 {is_inferred="true"} ! tetrahydrobiopterin metabolic process

[Term]
@@ -39283,14 +46933,19 @@
[Term]
id: GO:0046208 ! spermine catabolic process
is_a: GO:0008215 {is_inferred="true"} ! spermine metabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process

[Term]
id: GO:0046209 ! nitric oxide metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
+is_a: GO:0042133 {is_inferred="true"} ! neurotransmitter metabolic process
```

is_a: GO:0072593 {is_inferred="true"} ! reactive oxygen species metabolic process
is_a: GO:2001057 {is_inferred="true"} ! reactive nitrogen species metabolic process

[Term]

id: GO:0046210 ! nitric oxide catabolic process
+is_a: GO:0042135 {is_inferred="true"} ! neurotransmitter catabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:0046209 {is_inferred="true"} ! nitric oxide metabolic process

[Term]

@@ -39354,7 +47009,6 @@
id: GO:0046225 ! bacteriocin catabolic process
is_a: GO:0030652 {is_inferred="true"} ! peptide antibiotic catabolic process
is_a: GO:0046224 {is_inferred="true"} ! bacteriocin metabolic process
-is_a: GO:0051410 {is_inferred="true"} ! detoxification of nitrogen compound

[Term]

id: GO:0046226 ! coumarin catabolic process
@@ -39364,14 +47018,17 @@

[Term]

id: GO:0046228 ! 2,4,5-trichlorophenoxyacetic acid catabolic process
+is_a: GO:0009852 {is_inferred="true"} ! auxin catabolic process
is_a: GO:0018980 {is_inferred="true"} ! 2,4,5-trichlorophenoxyacetic acid metabolic process
process
is_a: GO:0019439 {is_inferred="true"} ! aromatic compound catabolic process
+is_a: GO:0042178 {is_inferred="true"} ! xenobiotic catabolic process
is_a: GO:0072329 {is_inferred="true"} ! monocarboxylic acid catabolic process
is_a: GO:1901361 {is_inferred="true"} ! organic cyclic compound catabolic process
is_a: GO:1901502 {is_inferred="true"} ! ether catabolic process

[Term]

id: GO:0046230 ! 2-aminobenzenesulfonate catabolic process
+is_a: GO:0016054 {is_inferred="true"} ! organic acid catabolic process
is_a: GO:0018868 {is_inferred="true"} ! 2-aminobenzenesulfonate metabolic process
is_a: GO:0019439 {is_inferred="true"} ! aromatic compound catabolic process
is_a: GO:0044273 {is_inferred="true"} ! sulfur compound catabolic process
@@ -39410,6 +47067,8 @@
id: GO:0046244 ! salicylic acid catabolic process
is_a: GO:0009696 {is_inferred="true"} ! salicylic acid metabolic process
is_a: GO:0019336 {is_inferred="true"} ! phenol-containing compound catabolic process
+is_a: GO:0042447 {is_inferred="true"} ! hormone catabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:0072329 {is_inferred="true"} ! monocarboxylic acid catabolic process

[Term]

@@ -39479,6 +47138,7 @@

[Term]

id: GO:0046269 ! toluene-4-sulfonate catabolic process
+is_a: GO:0016054 {is_inferred="true"} ! organic acid catabolic process
is_a: GO:0018972 {is_inferred="true"} ! toluene-4-sulfonate metabolic process
is_a: GO:0044273 {is_inferred="true"} ! sulfur compound catabolic process
is_a: GO:0072491 {is_inferred="true"} ! toluene-containing compound catabolic process
@@ -39524,6 +47184,7 @@

[Term]

id: GO:0046278 ! 3,4-dihydroxybenzoate metabolic process
is_a: GO:0009712 {is_inferred="true"} ! catechol-containing compound metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0032787 {is_inferred="true"} ! monocarboxylic acid metabolic process
is_a: GO:0042537 {is_inferred="true"} ! benzene-containing compound metabolic process

@@ -39556,6 +47217,7 @@

[Term]

id: GO:0046285 ! flavonoid phytoalexin metabolic process
is_a: GO:0009812 {is_inferred="true"} ! flavonoid metabolic process
+is_a: GO:0052314 {is_inferred="true"} ! phytoalexin metabolic process

[Term]
id: GO:0046286 ! flavonoid phytoalexin catabolic process
@@ -39601,6 +47263,7 @@
id: GO:0046296 ! glycolate catabolic process
is_a: GO:0009441 {is_inferred="true"} ! glycolate metabolic process
is_a: GO:0034310 {is_inferred="true"} ! primary alcohol catabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:0072329 {is_inferred="true"} ! monocarboxylic acid catabolic process

[Term]
@@ -39612,8 +47275,10 @@

[Term]
id: GO:0046300 ! 2,4-dichlorophenoxyacetic acid catabolic process
+is_a: GO:0009852 {is_inferred="true"} ! auxin catabolic process
is_a: GO:0018901 {is_inferred="true"} ! 2,4-dichlorophenoxyacetic acid metabolic process
is_a: GO:0019439 {is_inferred="true"} ! aromatic compound catabolic process
+is_a: GO:0042178 {is_inferred="true"} ! xenobiotic catabolic process
is_a: GO:0072329 {is_inferred="true"} ! monocarboxylic acid catabolic process
is_a: GO:1901361 {is_inferred="true"} ! organic cyclic compound catabolic process
is_a: GO:1901502 {is_inferred="true"} ! ether catabolic process
@@ -39622,12 +47287,14 @@
id: GO:0046302 ! 2-chloro-N-isopropylacetanilide catabolic process
is_a: GO:0018889 {is_inferred="true"} ! 2-chloro-N-isopropylacetanilide metabolic process
is_a: GO:0019439 {is_inferred="true"} ! aromatic compound catabolic process
+is_a: GO:0042178 {is_inferred="true"} ! xenobiotic catabolic process
is_a: GO:1901361 {is_inferred="true"} ! organic cyclic compound catabolic process
is_a: GO:1901565 {is_inferred="true"} ! organonitrogen compound catabolic process

[Term]
id: GO:0046304 ! 2-nitropropane catabolic process
is_a: GO:0018938 {is_inferred="true"} ! 2-nitropropane metabolic process
+is_a: GO:1901575 {is_inferred="true"} ! organic substance catabolic process

[Term]
id: GO:0046305 ! alkanesulfonate biosynthetic process
@@ -39794,6 +47461,7 @@

[Term]
id: GO:0046343 ! streptomycin metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0019751 {is_inferred="true"} ! polyol metabolic process
is_a: GO:0030647 {is_inferred="true"} ! aminoglycoside antibiotic metabolic process

@@ -40158,6 +47826,7 @@

[Term]
id: GO:0046440 ! L-lysine metabolic process
is_a: GO:0006553 {is_inferred="true"} ! lysine metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process

[Term]
id: GO:0046441 ! D-lysine metabolic process
@@ -40167,6 +47836,7 @@

[Term]
id: GO:0046442 ! aerobactin metabolic process
is_a: GO:0006575 {is_inferred="true"} ! cellular modified amino acid metabolic process
+is_a: GO:0009237 {is_inferred="true"} ! siderophore metabolic process
is_a: GO:0072350 {is_inferred="true"} ! tricarboxylic acid metabolic process

[Term]
@@ -40281,6 +47951,7 @@

[Term]
id: GO:0046469 ! platelet activating factor metabolic process
is_a: GO:0006650 {is_inferred="true"} ! glycerophospholipid metabolic process

+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
 is_a: GO:0097164 {is_inferred="true"} ! ammonium ion metabolic process
 is_a: GO:1901564 {is_inferred="true"} ! organonitrogen compound metabolic process

@@ -40394,6 +48065,7 @@

is_a: GO:0006575 {is_inferred="true"} ! cellular modified amino acid metabolic process
 is_a: GO:0006790 {is_inferred="true"} ! sulfur compound metabolic process
 is_a: GO:0046128 {is_inferred="true"} ! purine ribonucleoside metabolic process
 +is_a: GO:0051186 {is_inferred="true"} ! cofactor metabolic process
 is_a: GO:1901605 {is_inferred="true"} ! alpha-amino acid metabolic process

[Term]

@@ -40405,6 +48077,7 @@

[Term]

id: GO:0046500 ! S-adenosylmethionine metabolic process
 is_a: GO:0006790 {is_inferred="true"} ! sulfur compound metabolic process
 +is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
 is_a: GO:0071704 {is_inferred="true"} ! organic substance metabolic process

[Term]

@@ -40531,11 +48204,13 @@

[Term]

id: GO:0046584 ! enniatin metabolic process
 +is_a: GO:0043385 {is_inferred="true"} ! mycotoxin metabolic process
 is_a: GO:0050761 {is_inferred="true"} ! depsipeptide metabolic process
 is_a: GO:1901334 {is_inferred="true"} ! lactone metabolic process

[Term]

id: GO:0046585 ! enniatin biosynthetic process
 +is_a: GO:0043386 {is_inferred="true"} ! mycotoxin biosynthetic process
 is_a: GO:0046584 {is_inferred="true"} ! enniatin metabolic process
 is_a: GO:0050763 {is_inferred="true"} ! depsipeptide biosynthetic process
 is_a: GO:1901336 {is_inferred="true"} ! lactone biosynthetic process

@@ -40773,6 +48448,7 @@

[Term]

id: GO:0046655 ! folic acid metabolic process
 is_a: GO:0006760 {is_inferred="true"} ! folic acid-containing compound metabolic process
 process
 +is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
 is_a: GO:0043648 {is_inferred="true"} ! dicarboxylic acid metabolic process

[Term]

@@ -40784,6 +48460,7 @@

[Term]

id: GO:0046657 ! folic acid catabolic process
 is_a: GO:0009397 {is_inferred="true"} ! folic acid-containing compound catabolic process
 process
 +is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
 is_a: GO:0043649 {is_inferred="true"} ! dicarboxylic acid catabolic process
 is_a: GO:0046655 {is_inferred="true"} ! folic acid metabolic process

@@ -40837,7 +48514,7 @@

[Term]

id: GO:0046677 ! response to antibiotic
 -is_a: GO:0042221 {is_inferred="true"} ! response to chemical
 +is_a: GO:0009636 {is_inferred="true"} ! response to toxic substance

[Term]

id: GO:0046678 ! response to bacteriocin
 @@ -40845,11 +48522,14 @@

[Term]

id: GO:0046679 ! response to streptomycin
 +is_a: GO:0042493 {is_inferred="true"} ! response to drug
 +is_a: GO:0060992 {is_inferred="true"} ! response to fungicide

is_a: GO:1903416 {is_inferred="true"} ! response to glycoside

[Term]

id: GO:0046680 ! response to DDT

is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound

+is_a: GO:0042493 {is_inferred="true"} ! response to drug

[Term]

id: GO:0046681 ! response to carbamate

@@ -40952,14 +48632,17 @@

[Term]

id: GO:0046713 ! borate transport

is_a: GO:0015698 {is_inferred="true"} ! inorganic anion transport

+is_a: GO:0015893 {is_inferred="true"} ! drug transport

[Term]

id: GO:0046714 ! borate binding

+is_a: GO:0008144 {is_inferred="true"} ! drug binding

is_a: GO:0043168 {is_inferred="true"} ! anion binding

[Term]

id: GO:0046715 ! active borate transmembrane transporter activity

is_a: GO:0015103 {is_inferred="true"} ! inorganic anion transmembrane transporter activity

+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity

is_a: GO:0022804 {is_inferred="true"} ! active transmembrane transporter activity

[Term]

@@ -41158,6 +48841,7 @@

[Term]

id: GO:0046874 ! quinolinate metabolic process

+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process

is_a: GO:0043648 {is_inferred="true"} ! dicarboxylic acid metabolic process

is_a: GO:0072524 {is_inferred="true"} ! pyridine-containing compound metabolic process

@@ -41183,6 +48867,8 @@

id: GO:0046898 ! response to cycloheximide

is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound

is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound

+is_a: GO:0042493 {is_inferred="true"} ! response to drug

+is_a: GO:0060992 {is_inferred="true"} ! response to fungicide

is_a: GO:0097305 {is_inferred="true"} ! response to alcohol

is_a: GO:1901654 {is_inferred="true"} ! response to ketone

@@ -41286,6 +48972,7 @@

[Term]

id: GO:0046952 ! ketone body catabolic process

+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process

is_a: GO:1901569 {is_inferred="true"} ! fatty acid derivative catabolic process

is_a: GO:1902224 {is_inferred="true"} ! ketone body metabolic process

@@ -42662,6 +50349,7 @@

[Term]

id: GO:0050646 ! 5-oxo-6E,8Z,11Z,14Z-icosatetraenoic acid binding

+is_a: GO:0008144 {is_inferred="true"} ! drug binding

is_a: GO:0036041 {is_inferred="true"} ! long-chain fatty acid binding

is_a: GO:0050542 {is_inferred="true"} ! icosanoid binding

@@ -42724,6 +50412,7 @@

[Term]

id: GO:0050665 ! hydrogen peroxide biosynthetic process

is_a: GO:0042743 {is_inferred="true"} ! hydrogen peroxide metabolic process

+is_a: GO:0051188 {is_inferred="true"} ! cofactor biosynthetic process

is_a: GO:1903409 {is_inferred="true"} ! reactive oxygen species biosynthetic process

```
[Term]
@@ -42797,6 +50486,7 @@
id: GO:0050696 ! trichloroethylene catabolic process
is_a: GO:0018979 {is_inferred="true"} ! trichloroethylene metabolic process
is_a: GO:0042205 {is_inferred="true"} ! chlorinated hydrocarbon catabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process

[Term]
id: GO:0050704 ! regulation of interleukin-1 secretion
@@ -43046,6 +50736,7 @@
[Term]
id: GO:0050783 ! cocaine metabolic process
is_a: GO:0006725 {is_inferred="true"} ! cellular aromatic compound metabolic process
+is_a: GO:0006805 {is_inferred="true"} ! xenobiotic metabolic process
is_a: GO:0046448 {is_inferred="true"} ! tropane alkaloid metabolic process
is_a: GO:0097164 {is_inferred="true"} ! ammonium ion metabolic process

@@ -43053,6 +50744,7 @@
id: GO:0050784 ! cocaine catabolic process
is_a: GO:0009822 {is_inferred="true"} ! alkaloid catabolic process
is_a: GO:0019439 {is_inferred="true"} ! aromatic compound catabolic process
+is_a: GO:0042178 {is_inferred="true"} ! xenobiotic catabolic process
is_a: GO:0046700 {is_inferred="true"} ! heterocycle catabolic process
is_a: GO:0050783 {is_inferred="true"} ! cocaine metabolic process
is_a: GO:1901361 {is_inferred="true"} ! organic cyclic compound catabolic process
@@ -43143,6 +50835,7 @@

[Term]
id: GO:0050843 ! S-adenosylmethionine catabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:0044273 {is_inferred="true"} ! sulfur compound catabolic process
is_a: GO:0046500 {is_inferred="true"} ! S-adenosylmethionine metabolic process
is_a: GO:1901575 {is_inferred="true"} ! organic substance catabolic process
@@ -44265,6 +51958,7 @@

[Term]
id: GO:0051378 ! serotonin binding
+is_a: GO:0042165 {is_inferred="true"} ! neurotransmitter binding
is_a: GO:0070405 {is_inferred="true"} ! ammonium ion binding
is_a: GO:0097159 {is_inferred="true"} ! organic cyclic compound binding
is_a: GO:1901363 {is_inferred="true"} ! heterocyclic compound binding
@@ -44279,6 +51973,7 @@

[Term]
id: GO:0051381 ! histamine binding
+is_a: GO:0042165 {is_inferred="true"} ! neurotransmitter binding
is_a: GO:0070405 {is_inferred="true"} ! ammonium ion binding
is_a: GO:0097159 {is_inferred="true"} ! organic cyclic compound binding
is_a: GO:1901363 {is_inferred="true"} ! heterocyclic compound binding
@@ -44362,6 +52057,7 @@

[Term]
id: GO:0051414 ! response to cortisol
+is_a: GO:0042493 {is_inferred="true"} ! response to drug
is_a: GO:0051384 {is_inferred="true"} ! response to glucocorticoid
is_a: GO:1901654 {is_inferred="true"} ! response to ketone

@@ -44394,6 +52090,7 @@
[Term]
id: GO:0051424 ! corticotropin-releasing hormone binding
is_a: GO:0017046 {is_inferred="true"} ! peptide hormone binding
+is_a: GO:0042165 {is_inferred="true"} ! neurotransmitter binding

[Term]
id: GO:0051436 ! negative regulation of ubiquitin-protein ligase activity involved in mitotic cell cycle
```


@@ -44470,25 +52167,30 @@

[Term]

id: GO:0051462 ! regulation of cortisol secretion
 is_a: GO:2000849 {is_inferred="true"} ! regulation of glucocorticoid secretion
 +is_a: GO:2001023 {is_inferred="true"} ! regulation of response to drug

[Term]

id: GO:0051463 ! negative regulation of cortisol secretion
 is_a: GO:0051462 {is_inferred="true"} ! regulation of cortisol secretion
 is_a: GO:2000850 {is_inferred="true"} ! negative regulation of glucocorticoid secretion
 +is_a: GO:2001024 {is_inferred="true"} ! negative regulation of response to drug

[Term]

id: GO:0051464 ! positive regulation of cortisol secretion
 is_a: GO:0051462 {is_inferred="true"} ! regulation of cortisol secretion
 is_a: GO:2000851 {is_inferred="true"} ! positive regulation of glucocorticoid secretion
 +is_a: GO:2001025 {is_inferred="true"} ! positive regulation of response to drug

[Term]

id: GO:0051465 ! negative regulation of corticotropin-releasing hormone secretion
 is_a: GO:0043397 {is_inferred="true"} ! regulation of corticotropin-releasing hormone secretion
 +is_a: GO:0051589 {is_inferred="true"} ! negative regulation of neurotransmitter transport
 is_a: GO:0090278 {is_inferred="true"} ! negative regulation of peptide hormone secretion

[Term]

id: GO:0051466 ! positive regulation of corticotropin-releasing hormone secretion
 is_a: GO:0043397 {is_inferred="true"} ! regulation of corticotropin-releasing hormone secretion
 +is_a: GO:0051590 {is_inferred="true"} ! positive regulation of neurotransmitter transport
 is_a: GO:0090277 {is_inferred="true"} ! positive regulation of peptide hormone secretion

[Term]

@@ -44674,6 +52376,7 @@

[Term]

id: GO:0051536 ! iron-sulfur cluster binding
 +is_a: GO:0048037 {is_inferred="true"} ! cofactor binding
 is_a: GO:0051540 {is_inferred="true"} ! metal cluster binding

[Term]

@@ -44828,6 +52531,7 @@

is_a: GO:0032225 {is_inferred="true"} ! regulation of synaptic transmission, dopaminergic
 is_a: GO:0043269 {is_inferred="true"} ! regulation of ion transport
 is_a: GO:0051940 {is_inferred="true"} ! regulation of catecholamine uptake involved in synaptic transmission
 +is_a: GO:2001023 {is_inferred="true"} ! regulation of response to drug

[Term]

id: GO:0051585 ! negative regulation of dopamine uptake involved in synaptic transmission

@@ -44835,6 +52539,7 @@

is_a: GO:0043271 {is_inferred="true"} ! negative regulation of ion transport
 is_a: GO:0051584 {is_inferred="true"} ! regulation of dopamine uptake involved in synaptic transmission
 is_a: GO:0051945 {is_inferred="true"} ! negative regulation of catecholamine uptake involved in synaptic transmission
 +is_a: GO:2001024 {is_inferred="true"} ! negative regulation of response to drug

[Term]

id: GO:0051586 ! positive regulation of dopamine uptake involved in synaptic transmission
@@ -44842,6 +52547,7 @@
is_a: GO:0043270 {is_inferred="true"} ! positive regulation of ion transport
is_a: GO:0051584 {is_inferred="true"} ! regulation of dopamine uptake involved in synaptic transmission
is_a: GO:0051944 {is_inferred="true"} ! positive regulation of catecholamine uptake involved in synaptic transmission
+is_a: GO:2001025 {is_inferred="true"} ! positive regulation of response to drug

[Term]

id: GO:0051588 ! regulation of neurotransmitter transport
@@ -44872,6 +52578,7 @@
is_a: GO:0001101 {is_inferred="true"} ! response to acid chemical
is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound
is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
+is_a: GO:0042493 {is_inferred="true"} ! response to drug
is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]

@@ -44903,6 +52610,7 @@

[Term]

id: GO:0051608 ! histamine transport
+is_a: GO:0006836 {is_inferred="true"} ! neurotransmitter transport
is_a: GO:0015696 {is_inferred="true"} ! ammonium transport
is_a: GO:0045117 {is_inferred="true"} ! azole transport

@@ -44995,17 +52703,24 @@

[Term]

id: GO:0051631 ! regulation of acetylcholine uptake
+is_a: GO:0010817 {is_inferred="true"} ! regulation of hormone levels
is_a: GO:0043269 {is_inferred="true"} ! regulation of ion transport
+is_a: GO:0051588 {is_inferred="true"} ! regulation of neurotransmitter transport
+is_a: GO:2001023 {is_inferred="true"} ! regulation of response to drug

[Term]

id: GO:0051632 ! negative regulation of acetylcholine uptake
is_a: GO:0043271 {is_inferred="true"} ! negative regulation of ion transport
+is_a: GO:0051589 {is_inferred="true"} ! negative regulation of neurotransmitter transport
is_a: GO:0051631 {is_inferred="true"} ! regulation of acetylcholine uptake
+is_a: GO:2001024 {is_inferred="true"} ! negative regulation of response to drug

[Term]

id: GO:0051633 ! positive regulation of acetylcholine uptake
is_a: GO:0043270 {is_inferred="true"} ! positive regulation of ion transport
+is_a: GO:0051590 {is_inferred="true"} ! positive regulation of neurotransmitter transport
is_a: GO:0051631 {is_inferred="true"} ! regulation of acetylcholine uptake
+is_a: GO:2001025 {is_inferred="true"} ! positive regulation of response to drug

[Term]

id: GO:0051642 ! centrosome localization
@@ -45181,6 +52896,7 @@

[Term]

id: GO:0051724 ! NAD transmembrane transporter activity
is_a: GO:0015215 {is_inferred="true"} ! nucleotide transmembrane transporter activity
+is_a: GO:0051185 {is_inferred="true"} ! coenzyme transmembrane transporter activity

[Term]

id: GO:0051738 ! xanthophyll binding
@@ -45188,6 +52904,7 @@

[Term]

id: GO:0051740 ! ethylene binding

+is_a: GO:0042562 {is_inferred="true"} ! hormone binding
is_a: GO:0072328 {is_inferred="true"} ! alkene binding

[Term]

@@ -45483,6 +53200,8 @@

[Term]

id: GO:0051938 ! L-glutamate import
is_a: GO:0006835 {is_inferred="true"} ! dicarboxylic acid transport
+is_a: GO:0006836 {is_inferred="true"} ! neurotransmitter transport
+is_a: GO:0015893 {is_inferred="true"} ! drug transport
is_a: GO:0043092 {is_inferred="true"} ! L-amino acid import

[Term]

@@ -45688,6 +53407,7 @@

[Term]

id: GO:0052004 ! negative regulation by symbiont of host salicylic acid-mediated defense response
is_a: GO:0010113 {is_inferred="true"} ! negative regulation of systemic acquired resistance
+is_a: GO:2001039 {is_inferred="true"} ! negative regulation of cellular response to drug

[Term]

id: GO:0052053 ! negative regulation by symbiont of host catalytic activity
@@ -45705,6 +53425,7 @@

[Term]

id: GO:0052074 ! positive regulation by symbiont of host salicylic acid-mediated defense response
is_a: GO:1901672 {is_inferred="true"} ! positive regulation of systemic acquired resistance
+is_a: GO:2001040 {is_inferred="true"} ! positive regulation of cellular response to drug

[Term]

id: GO:0052148 ! modulation by symbiont of host catalytic activity
@@ -45866,6 +53587,7 @@

[Term]

id: GO:0052649 ! coenzyme gamma-F420-2 metabolic process
+is_a: GO:0006732 {is_inferred="true"} ! coenzyme metabolic process
is_a: GO:0046483 {is_inferred="true"} ! heterocycle metabolic process
is_a: GO:0052648 {is_inferred="true"} ! ribitol phosphate metabolic process
is_a: GO:0072350 {is_inferred="true"} ! tricarboxylic acid metabolic process
@@ -45880,6 +53602,7 @@

[Term]

id: GO:0052653 ! 3',5'-cyclic diguanylic acid metabolic process
is_a: GO:0009152 {is_inferred="true"} ! purine ribonucleotide biosynthetic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0052652 {is_inferred="true"} ! cyclic purine nucleotide metabolic process

[Term]

@@ -46221,6 +53944,7 @@

[Term]

id: GO:0055129 ! L-proline biosynthetic process
is_a: GO:0006561 {is_inferred="true"} ! proline biosynthetic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process

[Term]

id: GO:0055130 ! D-alanine catabolic process
@@ -47087,13 +54811,16 @@

[Term]

id: GO:0060408 ! regulation of acetylcholine metabolic process
is_a: GO:0001505 {is_inferred="true"} ! regulation of neurotransmitter levels
+is_a: GO:0032350 {is_inferred="true"} ! regulation of hormone metabolic process

[Term]

id: GO:0060409 ! positive regulation of acetylcholine metabolic process

+is_a: GO:0032352 {is_inferred="true"} ! positive regulation of hormone metabolic process
is_a: GO:0060408 {is_inferred="true"} ! regulation of acetylcholine metabolic process

[Term]
id: GO:0060410 ! negative regulation of acetylcholine metabolic process
+is_a: GO:0032351 {is_inferred="true"} ! negative regulation of hormone metabolic process
is_a: GO:0060408 {is_inferred="true"} ! regulation of acetylcholine metabolic process

[Term]
@@ -47391,12 +55118,14 @@

[Term]
id: GO:0060558 ! regulation of calcidiol 1-monooxygenase activity
is_a: GO:0032768 {is_inferred="true"} ! regulation of monooxygenase activity
+is_a: GO:0046885 {is_inferred="true"} ! regulation of hormone biosynthetic process
is_a: GO:0060556 {is_inferred="true"} ! regulation of vitamin D biosynthetic process
is_a: GO:1902930 {is_inferred="true"} ! regulation of alcohol biosynthetic process

[Term]
id: GO:0060559 ! positive regulation of calcidiol 1-monooxygenase activity
is_a: GO:0032770 {is_inferred="true"} ! positive regulation of monooxygenase activity
+is_a: GO:0046886 {is_inferred="true"} ! positive regulation of hormone biosynthetic process
is_a: GO:0060557 {is_inferred="true"} ! positive regulation of vitamin D biosynthetic process
is_a: GO:0060558 {is_inferred="true"} ! regulation of calcidiol 1-monooxygenase activity
is_a: GO:1902932 {is_inferred="true"} ! positive regulation of alcohol biosynthetic process

@@ -49137,6 +56866,7 @@

id: GO:0061370 ! testosterone biosynthetic process
is_a: GO:0006694 {is_inferred="true"} ! steroid biosynthetic process
is_a: GO:0042181 {is_inferred="true"} ! ketone biosynthetic process
+is_a: GO:0042446 {is_inferred="true"} ! hormone biosynthetic process
is_a: GO:1901617 {is_inferred="true"} ! organic hydroxy compound biosynthetic process

[Term]
@@ -49240,6 +56970,7 @@

id: GO:0061459 ! L-arginine transmembrane transporter activity
is_a: GO:0015179 {is_inferred="true"} ! L-amino acid transmembrane transporter activity
is_a: GO:0015181 {is_inferred="true"} ! arginine transmembrane transporter activity
+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity

[Term]
id: GO:0061460 ! L-histidine import
@@ -49339,6 +57070,7 @@

[Term]
id: GO:0061526 ! acetylcholine secretion
is_a: GO:0015870 {is_inferred="true"} ! acetylcholine transport
+is_a: GO:0046879 {is_inferred="true"} ! hormone secretion

[Term]
id: GO:0061528 ! aspartate secretion
@@ -49359,12 +57091,14 @@

[Term]
id: GO:0061539 ! octopamine secretion
+is_a: GO:0006836 {is_inferred="true"} ! neurotransmitter transport
is_a: GO:0015695 {is_inferred="true"} ! organic cation transport
is_a: GO:0015696 {is_inferred="true"} ! ammonium transport
is_a: GO:0015850 {is_inferred="true"} ! organic hydroxy compound transport

[Term]
id: GO:0061545 ! tyramine secretion
+is_a: GO:0006836 {is_inferred="true"} ! neurotransmitter transport

is_a: GO:0015844 {is_inferred="true"} ! monoamine transport
is_a: GO:0015850 {is_inferred="true"} ! organic hydroxy compound transport

@@ -49994,6 +57728,8 @@

[Term]

id: GO:0070025 ! carbon monoxide binding
+is_a: GO:0008144 {is_inferred="true"} ! drug binding
+is_a: GO:0042165 {is_inferred="true"} ! neurotransmitter binding
is_a: GO:0043169 {is_inferred="true"} ! cation binding

[Term]

@@ -50283,6 +58019,7 @@

[Term]

id: GO:0070178 ! D-serine metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0046416 {is_inferred="true"} ! D-amino acid metabolic process

[Term]

@@ -50467,12 +58204,14 @@

[Term]

id: GO:0070279 ! vitamin B6 binding
+is_a: GO:0008144 {is_inferred="true"} ! drug binding
is_a: GO:0097159 {is_inferred="true"} ! organic cyclic compound binding
is_a: GO:1901363 {is_inferred="true"} ! heterocyclic compound binding

[Term]

id: GO:0070280 ! pyridoxal binding
is_a: GO:0043169 {is_inferred="true"} ! cation binding
+is_a: GO:0048037 {is_inferred="true"} ! cofactor binding
is_a: GO:0070279 {is_inferred="true"} ! vitamin B6 binding

[Term]

@@ -50482,6 +58221,7 @@

[Term]

id: GO:0070282 ! pyridoxine binding
+is_a: GO:0048037 {is_inferred="true"} ! cofactor binding
is_a: GO:0070279 {is_inferred="true"} ! vitamin B6 binding

[Term]

@@ -50520,7 +58260,9 @@

[Term]

id: GO:0070301 ! cellular response to hydrogen peroxide
is_a: GO:0034614 {is_inferred="true"} ! cellular response to reactive oxygen species
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:0042542 {is_inferred="true"} ! response to hydrogen peroxide
+is_a: GO:0097237 {is_inferred="true"} ! cellular response to toxic substance

[Term]

id: GO:0070302 ! regulation of stress-activated protein kinase signaling cascade
@@ -50895,10 +58637,12 @@

[Term]

id: GO:0070484 ! dehydro-D-arabinono-1,4-lactone metabolic process
+is_a: GO:0051186 {is_inferred="true"} ! cofactor metabolic process
is_a: GO:1901334 {is_inferred="true"} ! lactone metabolic process

[Term]

id: GO:0070485 ! dehydro-D-arabinono-1,4-lactone biosynthetic process
+is_a: GO:0051188 {is_inferred="true"} ! cofactor biosynthetic process
is_a: GO:0070484 {is_inferred="true"} ! dehydro-D-arabinono-1,4-lactone metabolic process
process
is_a: GO:1901336 {is_inferred="true"} ! lactone biosynthetic process

@@ -51235,11 +58979,13 @@

[Term]

id: GO:0070639 ! vitamin D2 metabolic process
 +is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
 is_a: GO:0042359 {is_inferred="true"} ! vitamin D metabolic process

[Term]

id: GO:0070640 ! vitamin D3 metabolic process
 is_a: GO:0042359 {is_inferred="true"} ! vitamin D metabolic process
 +is_a: GO:0042445 {is_inferred="true"} ! hormone metabolic process
 is_a: GO:1902652 {is_inferred="true"} ! secondary alcohol metabolic process

[Term]

@@ -51301,10 +59047,12 @@

[Term]

id: GO:0070689 ! L-threonine catabolic process to propionate
 is_a: GO:0019541 {is_inferred="true"} ! propionate metabolic process
 +is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process

[Term]

id: GO:0070690 ! L-threonine catabolic process to acetyl-CoA
 is_a: GO:0006084 {is_inferred="true"} ! acetyl-CoA metabolic process
 +is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process

[Term]

id: GO:0070716 ! mismatch repair involved in maintenance of fidelity involved in DNA-dependent DNA replication

@@ -51438,6 +59186,7 @@

[Term]

id: GO:0070778 ! L-aspartate transport
 +is_a: GO:0006836 {is_inferred="true"} ! neurotransmitter transport
 is_a: GO:0015740 {is_inferred="true"} ! C4-dicarboxylate transport
 is_a: GO:0015807 {is_inferred="true"} ! L-amino acid transport

@@ -51451,6 +59200,7 @@

is_a: GO:0001101 {is_inferred="true"} ! response to acid chemical
 is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound
 is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
 +is_a: GO:0042493 {is_inferred="true"} ! response to drug
 is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]

@@ -51569,9 +59319,12 @@

[Term]

id: GO:0070813 ! hydrogen sulfide metabolic process
 is_a: GO:0006790 {is_inferred="true"} ! sulfur compound metabolic process
 +is_a: GO:0009404 {is_inferred="true"} ! toxin metabolic process
 +is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process

[Term]

id: GO:0070814 ! hydrogen sulfide biosynthetic process
 +is_a: GO:0009403 {is_inferred="true"} ! toxin biosynthetic process
 is_a: GO:0044272 {is_inferred="true"} ! sulfur compound biosynthetic process
 is_a: GO:0070813 {is_inferred="true"} ! hydrogen sulfide metabolic process

@@ -51739,6 +59492,7 @@

[Term]

id: GO:0070907 ! histidine:histamine antiporter activity
 +is_a: GO:0005326 {is_inferred="true"} ! neurotransmitter transporter activity
 is_a: GO:0008519 {is_inferred="true"} ! ammonium transmembrane transporter activity
 is_a: GO:0015171 {is_inferred="true"} ! amino acid transmembrane transporter activity
 is_a: GO:0015491 {is_inferred="true"} ! cation:cation antiporter activity

@@ -51746,6 +59500,7 @@

[Term]

id: GO:0070908 ! tyrosine:tyramine antiporter activity
 +is_a: GO:0005326 {is_inferred="true"} ! neurotransmitter transporter activity
 is_a: GO:0008504 {is_inferred="true"} ! monoamine transmembrane transporter activity
 is_a: GO:0008519 {is_inferred="true"} ! ammonium transmembrane transporter activity
 is_a: GO:0015173 {is_inferred="true"} ! aromatic amino acid transmembrane transporter activity

@@ -51791,6 +59546,7 @@

is_a: GO:0032239 {is_inferred="true"} ! regulation of nucleobase-containing compound transport

is_a: GO:0032412 {is_inferred="true"} ! regulation of ion transmembrane transporter activity

is_a: GO:1903959 {is_inferred="true"} ! regulation of anion transmembrane transport

+is_a: GO:2001023 {is_inferred="true"} ! regulation of response to drug

[Term]

id: GO:0070927 ! negative regulation of ATP:ADP antiporter activity

@@ -51798,6 +59554,7 @@

is_a: GO:0032413 {is_inferred="true"} ! negative regulation of ion transmembrane transporter activity

is_a: GO:0070926 {is_inferred="true"} ! regulation of ATP:ADP antiporter activity

is_a: GO:1903960 {is_inferred="true"} ! negative regulation of anion transmembrane transport

+is_a: GO:2001024 {is_inferred="true"} ! negative regulation of response to drug

[Term]

id: GO:0070939 ! Dsl1/NZR complex

@@ -51916,6 +59673,7 @@

[Term]

id: GO:0070968 ! pyrroloquinoline quinone binding

+is_a: GO:0019842 {is_inferred="true"} ! vitamin binding

is_a: GO:0031406 {is_inferred="true"} ! carboxylic acid binding

is_a: GO:0048038 {is_inferred="true"} ! quinone binding

is_a: GO:0097159 {is_inferred="true"} ! organic cyclic compound binding

@@ -51943,6 +59701,7 @@

[Term]

id: GO:0070982 ! L-asparagine metabolic process

is_a: GO:0006528 {is_inferred="true"} ! asparagine metabolic process

+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process

[Term]

id: GO:0070985 ! TFIIK complex

@@ -52367,6 +60126,7 @@

[Term]

id: GO:0071225 ! cellular response to muramyl dipeptide

is_a: GO:0032495 {is_inferred="true"} ! response to muramyl dipeptide

+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug

is_a: GO:1901653 {is_inferred="true"} ! cellular response to peptide

[Term]

@@ -52383,6 +60143,7 @@

[Term]

id: GO:0071231 ! cellular response to folic acid

+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug

is_a: GO:0051593 {is_inferred="true"} ! response to folic acid

is_a: GO:0071229 {is_inferred="true"} ! cellular response to acid chemical

is_a: GO:0071295 {is_inferred="true"} ! cellular response to vitamin

@@ -52416,7 +60177,7 @@

[Term]

id: GO:0071236 ! cellular response to antibiotic

is_a: GO:0046677 {is_inferred="true"} ! response to antibiotic

-is_a: GO:0070887 {is_inferred="true"} ! cellular response to chemical stimulus

+is_a: GO:0097237 {is_inferred="true"} ! cellular response to toxic substance

[Term]

id: GO:0071237 ! cellular response to bacteriocin
@@ -52433,6 +60194,7 @@

[Term]

id: GO:0071239 ! cellular response to streptomycin
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:0046679 {is_inferred="true"} ! response to streptomycin
is_a: GO:0071236 {is_inferred="true"} ! cellular response to antibiotic
is_a: GO:1901701 {is_inferred="true"} ! cellular response to oxygen-containing
compound
@@ -52455,11 +60217,14 @@

[Term]

id: GO:0071244 ! cellular response to carbon dioxide
is_a: GO:0010037 {is_inferred="true"} ! response to carbon dioxide
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:1901701 {is_inferred="true"} ! cellular response to oxygen-containing
compound

[Term]

id: GO:0071245 ! cellular response to carbon monoxide
is_a: GO:0034465 {is_inferred="true"} ! response to carbon monoxide
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
+is_a: GO:0097237 {is_inferred="true"} ! cellular response to toxic substance
is_a: GO:1901701 {is_inferred="true"} ! cellular response to oxygen-containing
compound

[Term]

@@ -52508,6 +60273,7 @@

[Term]

id: GO:0071265 ! L-methionine biosynthetic process
is_a: GO:0009086 {is_inferred="true"} ! methionine biosynthetic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process

[Term]

id: GO:0071268 ! homocysteine biosynthetic process
@@ -52531,12 +60297,16 @@

[Term]

id: GO:0071272 ! morphine metabolic process
+is_a: GO:0006805 {is_inferred="true"} ! xenobiotic metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0033076 {is_inferred="true"} ! isoquinoline alkaloid metabolic process
is_a: GO:0097164 {is_inferred="true"} ! ammonium ion metabolic process
is_a: GO:1901376 {is_inferred="true"} ! organic heteropentacyclic compound metabolic
process

[Term]

id: GO:0071273 ! morphine catabolic process
+is_a: GO:0042178 {is_inferred="true"} ! xenobiotic catabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:0071272 {is_inferred="true"} ! morphine metabolic process
is_a: GO:0071274 {is_inferred="true"} ! isoquinoline alkaloid catabolic process
is_a: GO:1901377 {is_inferred="true"} ! organic heteropentacyclic compound catabolic
process
@@ -52600,6 +60370,7 @@

[Term]

id: GO:0071296 ! cellular response to biotin
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:0070781 {is_inferred="true"} ! response to biotin
is_a: GO:0071229 {is_inferred="true"} ! cellular response to acid chemical
is_a: GO:0071295 {is_inferred="true"} ! cellular response to vitamin
@@ -52610,6 +60381,7 @@

[Term]

id: GO:0071297 ! cellular response to cobalamin
is_a: GO:0033590 {is_inferred="true"} ! response to cobalamin
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug

is_a: GO:0071295 {is_inferred="true"} ! cellular response to vitamin
is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
is_a: GO:0071417 {is_inferred="true"} ! cellular response to organonitrogen compound
@@ -52637,6 +60409,7 @@

[Term]

id: GO:0071301 ! cellular response to vitamin B1

is_a: GO:0010266 {is_inferred="true"} ! response to vitamin B1

+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug

is_a: GO:0071295 {is_inferred="true"} ! cellular response to vitamin

is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound

is_a: GO:0071417 {is_inferred="true"} ! cellular response to organonitrogen compound
@@ -52644,6 +60417,7 @@

[Term]

id: GO:0071302 ! cellular response to vitamin B2

is_a: GO:0033274 {is_inferred="true"} ! response to vitamin B2

+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug

is_a: GO:0071295 {is_inferred="true"} ! cellular response to vitamin

is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound

is_a: GO:0071417 {is_inferred="true"} ! cellular response to organonitrogen compound
@@ -52651,6 +60425,7 @@

[Term]

id: GO:0071304 ! cellular response to vitamin B6

is_a: GO:0034516 {is_inferred="true"} ! response to vitamin B6

+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug

is_a: GO:0071295 {is_inferred="true"} ! cellular response to vitamin

is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound

is_a: GO:0071417 {is_inferred="true"} ! cellular response to organonitrogen compound
@@ -52683,6 +60458,7 @@

[Term]

id: GO:0071309 ! cellular response to phylloquinone

is_a: GO:0032573 {is_inferred="true"} ! response to phylloquinone

+is_a: GO:0071295 {is_inferred="true"} ! cellular response to vitamin

is_a: GO:1901655 {is_inferred="true"} ! cellular response to ketone

[Term]

@@ -52699,26 +60475,33 @@

[Term]

id: GO:0071313 ! cellular response to caffeine

is_a: GO:0031000 {is_inferred="true"} ! response to caffeine

+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug

is_a: GO:0071312 {is_inferred="true"} ! cellular response to alkaloid

+is_a: GO:0071466 {is_inferred="true"} ! cellular response to xenobiotic stimulus

[Term]

id: GO:0071314 ! cellular response to cocaine

+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug

is_a: GO:0042220 {is_inferred="true"} ! response to cocaine

is_a: GO:0071242 {is_inferred="true"} ! cellular response to ammonium ion

is_a: GO:0071312 {is_inferred="true"} ! cellular response to alkaloid

is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound

+is_a: GO:0071466 {is_inferred="true"} ! cellular response to xenobiotic stimulus

is_a: GO:1901701 {is_inferred="true"} ! cellular response to oxygen-containing
compound

[Term]

id: GO:0071315 ! cellular response to morphine

+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug

is_a: GO:0043278 {is_inferred="true"} ! response to morphine

is_a: GO:0071242 {is_inferred="true"} ! cellular response to ammonium ion

is_a: GO:0071317 {is_inferred="true"} ! cellular response to isoquinoline alkaloid

+is_a: GO:0071466 {is_inferred="true"} ! cellular response to xenobiotic stimulus

[Term]

id: GO:0071316 ! cellular response to nicotine

is_a: GO:0035094 {is_inferred="true"} ! response to nicotine

-is_a: GO:0070887 {is_inferred="true"} ! cellular response to chemical stimulus

+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug

+is_a: GO:0097237 {is_inferred="true"} ! cellular response to toxic substance

[Term]

id: GO:0071317 ! cellular response to isoquinoline alkaloid
@@ -52728,13 +60511,16 @@

[Term]

id: GO:0071318 ! cellular response to ATP
+is_a: GO:0031670 {is_inferred="true"} ! cellular response to nutrient
is_a: GO:0033198 {is_inferred="true"} ! response to ATP
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
is_a: GO:0071417 {is_inferred="true"} ! cellular response to organonitrogen compound
is_a: GO:1901701 {is_inferred="true"} ! cellular response to oxygen-containing compound

[Term]

id: GO:0071319 ! cellular response to benzoic acid
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:0071229 {is_inferred="true"} ! cellular response to acid chemical
is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
is_a: GO:0080021 {is_inferred="true"} ! response to benzoic acid
@@ -52760,6 +60546,7 @@

[Term]

id: GO:0071323 ! cellular response to chitin
is_a: GO:0010200 {is_inferred="true"} ! response to chitin
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:0071417 {is_inferred="true"} ! cellular response to organonitrogen compound
is_a: GO:1901701 {is_inferred="true"} ! cellular response to oxygen-containing compound

@@ -52845,7 +60632,9 @@

[Term]

id: GO:0071361 ! cellular response to ethanol
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:0045471 {is_inferred="true"} ! response to ethanol
+is_a: GO:0097237 {is_inferred="true"} ! cellular response to toxic substance
is_a: GO:0097306 {is_inferred="true"} ! cellular response to alcohol

[Term]

@@ -52924,6 +60713,10 @@
is_a: GO:1901655 {is_inferred="true"} ! cellular response to ketone

[Term]

+id: GO:0071382 ! cellular response to prostaglandin I stimulus
+is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
+

+ [Term]

id: GO:0071383 ! cellular response to steroid hormone stimulus
is_a: GO:0032870 {is_inferred="true"} ! cellular response to hormone stimulus
is_a: GO:0048545 {is_inferred="true"} ! response to steroid hormone
@@ -52949,6 +60742,7 @@

[Term]

id: GO:0071387 ! cellular response to cortisol stimulus
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:0051414 {is_inferred="true"} ! response to cortisol
is_a: GO:0071385 {is_inferred="true"} ! cellular response to glucocorticoid stimulus
is_a: GO:1901655 {is_inferred="true"} ! cellular response to ketone
@@ -52966,6 +60760,7 @@

[Term]

id: GO:0071390 ! cellular response to ecdysone
+is_a: GO:0032870 {is_inferred="true"} ! cellular response to hormone stimulus
is_a: GO:0035075 {is_inferred="true"} ! response to ecdysone
is_a: GO:0036315 {is_inferred="true"} ! cellular response to sterol

```

is_a: GO:0097306 {is_inferred="true"} ! cellular response to alcohol
@@ -52979,6 +60774,7 @@
[Term]
id: GO:0071392 ! cellular response to estradiol stimulus
is_a: GO:0032355 {is_inferred="true"} ! response to estradiol
+is_a: GO:0032870 {is_inferred="true"} ! cellular response to hormone stimulus
is_a: GO:0071396 {is_inferred="true"} ! cellular response to lipid
is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
is_a: GO:1901701 {is_inferred="true"} ! cellular response to oxygen-containing
compound
@@ -52986,11 +60782,13 @@
[Term]
id: GO:0071393 ! cellular response to progesterone stimulus
is_a: GO:0032570 {is_inferred="true"} ! response to progesterone
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:0071383 {is_inferred="true"} ! cellular response to steroid hormone stimulus
is_a: GO:1901655 {is_inferred="true"} ! cellular response to ketone

[Term]
id: GO:0071394 ! cellular response to testosterone stimulus
+is_a: GO:0032870 {is_inferred="true"} ! cellular response to hormone stimulus
is_a: GO:0033574 {is_inferred="true"} ! response to testosterone
is_a: GO:0071396 {is_inferred="true"} ! cellular response to lipid
is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
@@ -53067,9 +60865,11 @@

[Term]
id: GO:0071409 ! cellular response to cycloheximide
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:0046898 {is_inferred="true"} ! response to cycloheximide
is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
is_a: GO:0071417 {is_inferred="true"} ! cellular response to organonitrogen compound
+is_a: GO:0097237 {is_inferred="true"} ! cellular response to toxic substance
is_a: GO:0097306 {is_inferred="true"} ! cellular response to alcohol
is_a: GO:1901655 {is_inferred="true"} ! cellular response to ketone

@@ -53077,10 +60877,13 @@
id: GO:0071411 ! cellular response to fluoxetine
is_a: GO:0014076 {is_inferred="true"} ! response to fluoxetine
is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
+is_a: GO:0071466 {is_inferred="true"} ! cellular response to xenobiotic stimulus

[Term]
id: GO:0071412 ! cellular response to genistein
+is_a: GO:0032870 {is_inferred="true"} ! cellular response to hormone stimulus
is_a: GO:0033595 {is_inferred="true"} ! response to genistein
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:0071413 {is_inferred="true"} ! cellular response to hydroxyisoflavone

[Term]
@@ -53092,6 +60895,7 @@
[Term]
id: GO:0071414 ! cellular response to methotrexate
is_a: GO:0031427 {is_inferred="true"} ! response to methotrexate
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:0071229 {is_inferred="true"} ! cellular response to acid chemical
is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
is_a: GO:0071417 {is_inferred="true"} ! cellular response to organonitrogen compound
@@ -53120,7 +60924,10 @@
[Term]
id: GO:0071419 ! cellular response to amphetamine
is_a: GO:0001975 {is_inferred="true"} ! response to amphetamine
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:0071418 {is_inferred="true"} ! cellular response to amine stimulus
+is_a: GO:0071466 {is_inferred="true"} ! cellular response to xenobiotic stimulus
+is_a: GO:0097237 {is_inferred="true"} ! cellular response to toxic substance

```

[Term]
 id: GO:0071420 ! cellular response to histamine
 @@ -53135,6 +60942,7 @@

[Term]
 id: GO:0071422 ! succinate transmembrane transport
 +is_a: GO:0006855 {is_inferred="true"} ! drug transmembrane transport
 is_a: GO:0015744 {is_inferred="true"} ! succinate transport
 is_a: GO:1905039 {is_inferred="true"} ! carboxylic acid transmembrane transport

@@ -53181,6 +60989,8 @@

[Term]
 id: GO:0071446 ! cellular response to salicylic acid stimulus
 is_a: GO:0009751 {is_inferred="true"} ! response to salicylic acid
 +is_a: GO:0032870 {is_inferred="true"} ! cellular response to hormone stimulus
 +is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
 is_a: GO:0071229 {is_inferred="true"} ! cellular response to acid chemical
 is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
 is_a: GO:1901701 {is_inferred="true"} ! cellular response to oxygen-containing
 compound
 @@ -53211,9 +61021,15 @@
 is_a: GO:0071450 {is_inferred="true"} ! cellular response to oxygen radical

[Term]
 +id: GO:0071452 ! cellular response to singlet oxygen
 +is_a: GO:0031670 {is_inferred="true"} ! cellular response to nutrient
 +is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
 +

+ [Term]
 id: GO:0071457 ! cellular response to ozone
 is_a: GO:0010193 {is_inferred="true"} ! response to ozone
 is_a: GO:0034614 {is_inferred="true"} ! cellular response to reactive oxygen species
 +is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
 is_a: GO:0071229 {is_inferred="true"} ! cellular response to acid chemical

[Term]
 @@ -53234,10 +61050,12 @@

[Term]
 id: GO:0071503 ! response to heparin
 is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound
 +is_a: GO:0061476 {is_inferred="true"} ! response to anticoagulant
 is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]
 id: GO:0071504 ! cellular response to heparin
 +is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
 is_a: GO:0071417 {is_inferred="true"} ! cellular response to organonitrogen compound
 is_a: GO:0071503 {is_inferred="true"} ! response to heparin
 is_a: GO:1901701 {is_inferred="true"} ! cellular response to oxygen-containing
 compound
 @@ -53245,13 +61063,19 @@

[Term]
 id: GO:0071505 ! response to mycophenolic acid
 is_a: GO:0001101 {is_inferred="true"} ! response to acid chemical
 +is_a: GO:0009410 {is_inferred="true"} ! response to xenobiotic stimulus
 +is_a: GO:0010046 {is_inferred="true"} ! response to mycotoxin
 is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
 +is_a: GO:0097327 {is_inferred="true"} ! response to antineoplastic agent
 is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]
 id: GO:0071506 ! cellular response to mycophenolic acid
 +is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
 +is_a: GO:0036146 {is_inferred="true"} ! cellular response to mycotoxin
 is_a: GO:0071229 {is_inferred="true"} ! cellular response to acid chemical
 is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
 +is_a: GO:0071466 {is_inferred="true"} ! cellular response to xenobiotic stimulus

is_a: GO:0071505 {is_inferred="true"} ! response to mycophenolic acid
is_a: GO:1901701 {is_inferred="true"} ! cellular response to oxygen-containing compound

@@ -53338,12 +61162,16 @@

[Term]

id: GO:0071548 ! response to dexamethasone
+is_a: GO:0009410 {is_inferred="true"} ! response to xenobiotic stimulus
is_a: GO:0051384 {is_inferred="true"} ! response to glucocorticoid
+is_a: GO:0097327 {is_inferred="true"} ! response to antineoplastic agent
is_a: GO:1901654 {is_inferred="true"} ! response to ketone

[Term]

id: GO:0071549 ! cellular response to dexamethasone stimulus
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:0071385 {is_inferred="true"} ! cellular response to glucocorticoid stimulus
+is_a: GO:0071466 {is_inferred="true"} ! cellular response to xenobiotic stimulus
is_a: GO:0071548 {is_inferred="true"} ! response to dexamethasone
is_a: GO:1901655 {is_inferred="true"} ! cellular response to ketone

@@ -53663,9 +61491,11 @@

is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound
is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
is_a: GO:0097305 {is_inferred="true"} ! response to alcohol
+is_a: GO:0097327 {is_inferred="true"} ! response to antineoplastic agent

[Term]

id: GO:0071681 ! cellular response to indole-3-methanol
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
is_a: GO:0071417 {is_inferred="true"} ! cellular response to organonitrogen compound
is_a: GO:0071680 {is_inferred="true"} ! response to indole-3-methanol

@@ -53711,11 +61541,13 @@

id: GO:0071731 ! response to nitric oxide
is_a: GO:0000302 {is_inferred="true"} ! response to reactive oxygen species
is_a: GO:0010035 {is_inferred="true"} ! response to inorganic substance
+is_a: GO:0097366 {is_inferred="true"} ! response to bronchodilator
is_a: GO:1901698 {is_inferred="true"} ! response to nitrogen compound

[Term]

id: GO:0071732 ! cellular response to nitric oxide
is_a: GO:0034614 {is_inferred="true"} ! cellular response to reactive oxygen species
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:0071731 {is_inferred="true"} ! response to nitric oxide
is_a: GO:1902170 {is_inferred="true"} ! cellular response to reactive nitrogen species

@@ -53938,6 +61770,7 @@

[Term]

id: GO:0071886 ! 1-(4-iodo-2,5-dimethoxyphenyl)propan-2-amine binding
+is_a: GO:0008144 {is_inferred="true"} ! drug binding
is_a: GO:0043176 {is_inferred="true"} ! amine binding
is_a: GO:0097159 {is_inferred="true"} ! organic cyclic compound binding

@@ -54033,6 +61866,8 @@

[Term]

id: GO:0071934 ! thiamine transmembrane transport
+is_a: GO:0006855 {is_inferred="true"} ! drug transmembrane transport
+is_a: GO:0035461 {is_inferred="true"} ! vitamin transmembrane transport
is_a: GO:0045117 {is_inferred="true"} ! azole transport
is_a: GO:0072348 {is_inferred="true"} ! sulfur compound transport
is_a: GO:0072531 {is_inferred="true"} ! pyrimidine-containing compound transmembrane transport

@@ -54048,10 +61883,12 @@

[Term]

id: GO:0071938 ! vitamin A transport
 is_a: GO:0015718 {is_inferred="true"} ! monocarboxylic acid transport
 +is_a: GO:0015893 {is_inferred="true"} ! drug transport
 is_a: GO:0034633 {is_inferred="true"} ! retinol transport

[Term]

id: GO:0071939 ! vitamin A import
 +is_a: GO:0006855 {is_inferred="true"} ! drug transmembrane transport
 is_a: GO:0071938 {is_inferred="true"} ! vitamin A transport
 is_a: GO:1905039 {is_inferred="true"} ! carboxylic acid transmembrane transport

@@ -54795,6 +62632,7 @@

[Term]

id: GO:0072390 ! phenol metabolic process
 +is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
 is_a: GO:0018958 {is_inferred="true"} ! phenol-containing compound metabolic process

[Term]

@@ -54805,6 +62643,7 @@

[Term]

id: GO:0072392 ! phenol catabolic process
 is_a: GO:0019336 {is_inferred="true"} ! phenol-containing compound catabolic process
 +is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
 is_a: GO:0072390 {is_inferred="true"} ! phenol metabolic process

[Term]

@@ -55124,6 +62963,7 @@

[Term]

id: GO:0072544 ! L-DOPA binding
 +is_a: GO:0008144 {is_inferred="true"} ! drug binding
 is_a: GO:0016597 {is_inferred="true"} ! amino acid binding
 is_a: GO:0072341 {is_inferred="true"} ! modified amino acid binding

@@ -55170,6 +63010,10 @@

is_a: GO:1902494 {is_inferred="true"} ! catalytic complex

[Term]

+id: GO:0072592 ! oxygen metabolic process
 +is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process

+

+ [Term]

id: GO:0072594 ! establishment of protein localization to organelle
 is_a: GO:0033365 {is_inferred="true"} ! protein localization to organelle

@@ -55288,10 +63132,13 @@

[Term]

id: GO:0072710 ! response to hydroxyurea
 is_a: GO:0010033 {is_inferred="true"} ! response to organic substance
 +is_a: GO:0097327 {is_inferred="true"} ! response to antineoplastic agent
 +is_a: GO:0097329 {is_inferred="true"} ! response to antimetabolite
 is_a: GO:1901698 {is_inferred="true"} ! response to nitrogen compound

[Term]

id: GO:0072711 ! cellular response to hydroxyurea
 +is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
 is_a: GO:0072710 {is_inferred="true"} ! response to hydroxyurea
 is_a: GO:1901699 {is_inferred="true"} ! cellular response to nitrogen compound

@@ -55299,12 +63146,16 @@

id: GO:0072712 ! response to thiabendazole
 is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound
 is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
 +is_a: GO:0042493 {is_inferred="true"} ! response to drug
 +is_a: GO:0060992 {is_inferred="true"} ! response to fungicide

[Term]

id: GO:0072713 ! cellular response to thiabendazole
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
is_a: GO:0071417 {is_inferred="true"} ! cellular response to organonitrogen compound
is_a: GO:0072712 {is_inferred="true"} ! response to thiabendazole
+is_a: GO:0097237 {is_inferred="true"} ! cellular response to toxic substance

[Term]

id: GO:0072716 ! response to actinomycin D
@@ -55318,12 +63169,14 @@

[Term]

id: GO:0072718 ! response to cisplatin
-is_a: GO:0042221 {is_inferred="true"} ! response to chemical
+is_a: GO:0009636 {is_inferred="true"} ! response to toxic substance
+is_a: GO:0097327 {is_inferred="true"} ! response to antineoplastic agent

[Term]

id: GO:0072719 ! cellular response to cisplatin
-is_a: GO:0070887 {is_inferred="true"} ! cellular response to chemical stimulus
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:0072718 {is_inferred="true"} ! response to cisplatin
+is_a: GO:0097237 {is_inferred="true"} ! cellular response to toxic substance

[Term]

id: GO:0072720 ! response to dithiothreitol
@@ -55337,6 +63190,7 @@

[Term]

id: GO:0072722 ! response to amitrole
+is_a: GO:0009635 {is_inferred="true"} ! response to herbicide
is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound
is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound

@@ -55345,6 +63199,7 @@

is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
is_a: GO:0071417 {is_inferred="true"} ! cellular response to organonitrogen compound
is_a: GO:0072722 {is_inferred="true"} ! response to amitrole
+is_a: GO:0097237 {is_inferred="true"} ! cellular response to toxic substance

[Term]

id: GO:0072724 ! response to 4-nitroquinoline N-oxide
@@ -55418,11 +63273,13 @@

id: GO:0072743 ! cellular response to erythromycin
is_a: GO:0071242 {is_inferred="true"} ! cellular response to ammonium ion
is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
+is_a: GO:0071466 {is_inferred="true"} ! cellular response to xenobiotic stimulus
is_a: GO:1901323 {is_inferred="true"} ! response to erythromycin
is_a: GO:1901701 {is_inferred="true"} ! cellular response to oxygen-containing compound

[Term]

id: GO:0072744 ! cellular response to trichodermin
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:0071362 {is_inferred="true"} ! cellular response to ether
is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
is_a: GO:1901324 {is_inferred="true"} ! response to trichodermin
@@ -55436,22 +63293,26 @@

[Term]

id: GO:0072746 ! cellular response to tetracycline
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:1901326 {is_inferred="true"} ! response to tetracycline
is_a: GO:1901701 {is_inferred="true"} ! cellular response to oxygen-containing compound

[Term]
id: GO:0072747 ! cellular response to chloramphenicol
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:0071417 {is_inferred="true"} ! cellular response to organonitrogen compound
is_a: GO:1901322 {is_inferred="true"} ! response to chloramphenicol
is_a: GO:1901701 {is_inferred="true"} ! cellular response to oxygen-containing compound

[Term]
id: GO:0072748 ! cellular response to tacrolimus
-is_a: GO:0070887 {is_inferred="true"} ! cellular response to chemical stimulus
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:1901327 {is_inferred="true"} ! response to tacrolimus

[Term]
id: GO:0072749 ! cellular response to cytochalasin B
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
+is_a: GO:0036146 {is_inferred="true"} ! cellular response to mycotoxin
is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
is_a: GO:0071417 {is_inferred="true"} ! cellular response to organonitrogen compound
is_a: GO:1901328 {is_inferred="true"} ! response to cytochalasin B
@@ -55470,6 +63331,7 @@

[Term]
id: GO:0072752 ! cellular response to rapamycin
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:0071362 {is_inferred="true"} ! cellular response to ether
is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
is_a: GO:0071417 {is_inferred="true"} ! cellular response to organonitrogen compound
@@ -55488,17 +63350,21 @@

[Term]
id: GO:0072755 ! cellular response to benomyl
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
is_a: GO:0071417 {is_inferred="true"} ! cellular response to organonitrogen compound
+is_a: GO:0097237 {is_inferred="true"} ! cellular response to toxic substance
is_a: GO:1901561 {is_inferred="true"} ! response to benomyl
is_a: GO:1901701 {is_inferred="true"} ! cellular response to oxygen-containing compound

[Term]
id: GO:0072756 ! cellular response to paraquat
+is_a: GO:0097237 {is_inferred="true"} ! cellular response to toxic substance
is_a: GO:1901562 {is_inferred="true"} ! response to paraquat

[Term]
id: GO:0072757 ! cellular response to camptothecin
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:0071312 {is_inferred="true"} ! cellular response to alkaloid
is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
is_a: GO:0097306 {is_inferred="true"} ! cellular response to alcohol
@@ -55516,6 +63382,8 @@

[Term]
id: GO:0072762 ! cellular response to carbendazim
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
+is_a: GO:0097237 {is_inferred="true"} ! cellular response to toxic substance
is_a: GO:1901701 {is_inferred="true"} ! cellular response to oxygen-containing compound

[Term]
@@ -55524,6 +63392,7 @@

[Term]
id: GO:0072764 ! cellular response to reversine
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug

is_a: GO:1901701 {is_inferred="true"} ! cellular response to oxygen-containing compound

[Term]

@@ -56133,6 +64002,7 @@

id: GO:0080021 ! response to benzoic acid

is_a: GO:0001101 {is_inferred="true"} ! response to acid chemical

is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound

+is_a: GO:0042493 {is_inferred="true"} ! response to drug

is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]

@@ -56252,6 +64122,7 @@

is_a: GO:0015695 {is_inferred="true"} ! organic cation transport

is_a: GO:0015711 {is_inferred="true"} ! organic anion transport

is_a: GO:0015868 {is_inferred="true"} ! purine ribonucleotide transport

+is_a: GO:0015893 {is_inferred="true"} ! drug transport

is_a: GO:0051503 {is_inferred="true"} ! adenine nucleotide transport

[Term]

@@ -56260,6 +64131,7 @@

is_a: GO:0005346 {is_inferred="true"} ! purine ribonucleotide transmembrane transporter activity

is_a: GO:0008514 {is_inferred="true"} ! organic anion transmembrane transporter activity

is_a: GO:0015101 {is_inferred="true"} ! organic cation transmembrane transporter activity

+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity

[Term]

id: GO:0080126 ! ovary septum development

@@ -56281,16 +64153,22 @@

[Term]

id: GO:0080139 ! borate efflux transmembrane transporter activity

is_a: GO:0015103 {is_inferred="true"} ! inorganic anion transmembrane transporter activity

+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity

is_a: GO:0015562 {is_inferred="true"} ! efflux transmembrane transporter activity

[Term]

+id: GO:0080140 ! regulation of jasmonic acid metabolic process

+is_a: GO:0032350 {is_inferred="true"} ! regulation of hormone metabolic process

+

+ [Term]

id: GO:0080141 ! regulation of jasmonic acid biosynthetic process

+is_a: GO:0046885 {is_inferred="true"} ! regulation of hormone biosynthetic process

is_a: GO:0080140 {is_inferred="true"} ! regulation of jasmonic acid metabolic process

[Term]

id: GO:0080142 ! regulation of salicylic acid biosynthetic process

is_a: GO:0010337 {is_inferred="true"} ! regulation of salicylic acid metabolic process

-is_a: GO:0031326 {is_inferred="true"} ! regulation of cellular biosynthetic process

+is_a: GO:0046885 {is_inferred="true"} ! regulation of hormone biosynthetic process

[Term]

id: GO:0080144 ! amino acid homeostasis

@@ -56302,6 +64180,10 @@

is_a: GO:0080144 {is_inferred="true"} ! amino acid homeostasis

[Term]

+id: GO:0080151 ! positive regulation of salicylic acid mediated signaling pathway

+is_a: GO:2001040 {is_inferred="true"} ! positive regulation of cellular response to drug

+

+ [Term]

id: GO:0080153 ! negative regulation of reductive pentose-phosphate cycle

is_a: GO:1905156 {is_inferred="true"} ! negative regulation of photosynthesis

@@ -56332,6 +64214,7 @@

[Term]

id: GO:0080164 ! regulation of nitric oxide metabolic process
 +is_a: GO:0001505 {is_inferred="true"} ! regulation of neurotransmitter levels
 is_a: GO:2000377 {is_inferred="true"} ! regulation of reactive oxygen species metabolic process

[Term]

@@ -56342,7 +64225,8 @@

[Term]

id: GO:0080170 ! hydrogen peroxide transmembrane transport
 -is_a: GO:0055085 {is_inferred="true"} ! transmembrane transport
 +is_a: GO:0006855 {is_inferred="true"} ! drug transmembrane transport
 +is_a: GO:0051181 {is_inferred="true"} ! cofactor transport

[Term]

id: GO:0080179 ! 1-methylguanosine metabolic process
 @@ -56634,10 +64518,12 @@

[Term]

id: GO:0089704 ! L-glutamate transmembrane export from vacuole
 is_a: GO:0006835 {is_inferred="true"} ! dicarboxylic acid transport
 +is_a: GO:0006836 {is_inferred="true"} ! neurotransmitter transport
 is_a: GO:0034486 {is_inferred="true"} ! vacuolar transmembrane transport
 is_a: GO:0034487 {is_inferred="true"} ! vacuolar amino acid transmembrane transport
 is_a: GO:0044746 {is_inferred="true"} ! amino acid transmembrane export
 is_a: GO:1902475 {is_inferred="true"} ! L-alpha-amino acid transmembrane transport
 +is_a: GO:1990961 {is_inferred="true"} ! drug transmembrane export

[Term]

id: GO:0089705 ! protein localization to outer membrane
 @@ -56650,6 +64536,7 @@

is_a: GO:0034487 {is_inferred="true"} ! vacuolar amino acid transmembrane transport
 is_a: GO:0044746 {is_inferred="true"} ! amino acid transmembrane export
 is_a: GO:1903352 {is_inferred="true"} ! L-ornithine transmembrane transport
 +is_a: GO:1990961 {is_inferred="true"} ! drug transmembrane export

[Term]

id: GO:0089707 ! L-lysine transmembrane export from vacuole
 @@ -56657,6 +64544,7 @@

is_a: GO:0034487 {is_inferred="true"} ! vacuolar amino acid transmembrane transport
 is_a: GO:0044746 {is_inferred="true"} ! amino acid transmembrane export
 is_a: GO:1903401 {is_inferred="true"} ! L-lysine transmembrane transport
 +is_a: GO:1990961 {is_inferred="true"} ! drug transmembrane export

[Term]

id: GO:0089708 ! L-histidine transmembrane export from vacuole
 @@ -56664,15 +64552,18 @@

is_a: GO:0032974 {is_inferred="true"} ! amino acid transmembrane export from vacuole
 is_a: GO:0034488 {is_inferred="true"} ! basic amino acid transmembrane export from vacuole
 is_a: GO:0089709 {is_inferred="true"} ! L-histidine transmembrane transport
 +is_a: GO:1990961 {is_inferred="true"} ! drug transmembrane export

[Term]

id: GO:0089709 ! L-histidine transmembrane transport
 +is_a: GO:0006855 {is_inferred="true"} ! drug transmembrane transport
 is_a: GO:0098655 {is_inferred="true"} ! cation transmembrane transport
 is_a: GO:1902024 {is_inferred="true"} ! L-histidine transport
 is_a: GO:1902475 {is_inferred="true"} ! L-alpha-amino acid transmembrane transport

[Term]

id: GO:0089711 ! L-glutamate transmembrane transport
 +is_a: GO:0006855 {is_inferred="true"} ! drug transmembrane transport
 is_a: GO:0015813 {is_inferred="true"} ! L-glutamate transport

is_a: GO:1902475 {is_inferred="true"} ! L-alpha-amino acid transmembrane transport

@@ -58066,6 +65957,8 @@

[Term]

id: GO:0090416 ! nicotinate transmembrane transporter activity

is_a: GO:0008028 {is_inferred="true"} ! monocarboxylic acid transmembrane transporter activity

+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity

+is_a: GO:0090482 {is_inferred="true"} ! vitamin transmembrane transporter activity

[Term]

id: GO:0090417 ! N-methylnicotinate transmembrane transporter activity

@@ -58289,6 +66182,7 @@

[Term]

id: GO:0090514 ! L-tyrosine transmembrane import into vacuole

+is_a: GO:0006855 {is_inferred="true"} ! drug transmembrane transport

is_a: GO:0034487 {is_inferred="true"} ! vacuolar amino acid transmembrane transport

is_a: GO:0036232 {is_inferred="true"} ! L-tyrosine import

is_a: GO:0098655 {is_inferred="true"} ! cation transmembrane transport

@@ -58514,6 +66408,11 @@

is_a: GO:1901606 {is_inferred="true"} ! alpha-amino acid catabolic process

[Term]

+id: GO:0097054 ! L-glutamate biosynthetic process

+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process

+is_a: GO:0042133 {is_inferred="true"} ! neurotransmitter metabolic process

+

+ [Term]

id: GO:0097055 ! agmatine biosynthetic process

is_a: GO:1901162 {is_inferred="true"} ! primary amino compound biosynthetic process

@@ -58542,11 +66441,13 @@

[Term]

id: GO:0097068 ! response to thyroxine

is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound

+is_a: GO:0042493 {is_inferred="true"} ! response to drug

is_a: GO:0043200 {is_inferred="true"} ! response to amino acid

is_a: GO:1904386 {is_inferred="true"} ! response to L-phenylalanine derivative

[Term]

id: GO:0097069 ! cellular response to thyroxine stimulus

+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug

is_a: GO:0071230 {is_inferred="true"} ! cellular response to amino acid stimulus

is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound

is_a: GO:0097067 {is_inferred="true"} ! cellular response to thyroid hormone stimulus

@@ -58620,6 +66521,7 @@

[Term]

id: GO:0097160 ! polychlorinated biphenyl binding

+is_a: GO:0008144 {is_inferred="true"} ! drug binding

is_a: GO:0097159 {is_inferred="true"} ! organic cyclic compound binding

[Term]

@@ -58735,6 +66637,7 @@

[Term]

id: GO:0097247 ! epigallocatechin 3-gallate binding

+is_a: GO:0008144 {is_inferred="true"} ! drug binding

is_a: GO:0097246 {is_inferred="true"} ! catechin binding

[Term]

@@ -58752,6 +66655,7 @@

[Term]

id: GO:0097253 ! beta-hydroxybutyrate transmembrane transporter activity

is_a: GO:0008028 {is_inferred="true"} ! monocarboxylic acid transmembrane transporter activity

+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity
is_a: GO:0015245 {is_inferred="true"} ! fatty acid transmembrane transporter activity
is_a: GO:0015665 {is_inferred="true"} ! alcohol transmembrane transporter activity

@@ -58857,18 +66761,22 @@

[Term]

id: GO:0097328 ! response to carboplatin

-is_a: GO:0042221 {is_inferred="true"} ! response to chemical

+is_a: GO:0097327 {is_inferred="true"} ! response to antineoplastic agent

[Term]

id: GO:0097330 ! response to 5-fluoro-2'-deoxyuridine

is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound

is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound

+is_a: GO:0097327 {is_inferred="true"} ! response to antineoplastic agent

+is_a: GO:0097329 {is_inferred="true"} ! response to antimetabolite

is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]

id: GO:0097331 ! response to cytarabine

is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound

is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound

+is_a: GO:0097327 {is_inferred="true"} ! response to antineoplastic agent

+is_a: GO:0097329 {is_inferred="true"} ! response to antimetabolite

is_a: GO:1903416 {is_inferred="true"} ! response to glycoside

[Term]

@@ -58879,36 +66787,44 @@

id: GO:0097333 ! response to olanzapine

is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound

is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound

+is_a: GO:0097332 {is_inferred="true"} ! response to antipsychotic drug

[Term]

id: GO:0097334 ! response to perphenazine

is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound

is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound

is_a: GO:0097305 {is_inferred="true"} ! response to alcohol

+is_a: GO:0097332 {is_inferred="true"} ! response to antipsychotic drug

[Term]

id: GO:0097335 ! response to quetiapine

is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound

is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound

+is_a: GO:0097332 {is_inferred="true"} ! response to antipsychotic drug

[Term]

id: GO:0097336 ! response to risperidone

is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound

is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound

+is_a: GO:0097332 {is_inferred="true"} ! response to antipsychotic drug

is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]

id: GO:0097337 ! response to ziprasidone

is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound

is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound

+is_a: GO:0097332 {is_inferred="true"} ! response to antipsychotic drug

[Term]

id: GO:0097338 ! response to clozapine

+is_a: GO:0009410 {is_inferred="true"} ! response to xenobiotic stimulus

is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound

is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound

+is_a: GO:0097332 {is_inferred="true"} ! response to antipsychotic drug

```
[Term]
id: GO:0097339 ! glycolate transmembrane transport
+is_a: GO:0006855 {is_inferred="true"} ! drug transmembrane transport
is_a: GO:1900866 {is_inferred="true"} ! glycolate transport
is_a: GO:1905039 {is_inferred="true"} ! carboxylic acid transmembrane transport
@@ -59572,6 +67488,7 @@

[Term]
id: GO:0098666 ! G-protein coupled serotonin receptor complex
is_a: GO:0098665 {is_inferred="true"} ! serotonin receptor complex
+is_a: GO:0098878 {is_inferred="true"} ! neurotransmitter receptor complex

[Term]
id: GO:0098674 ! extrinsic component of neuronal dense core vesicle membrane
@@ -59707,6 +67624,8 @@

[Term]
id: GO:0098712 ! L-glutamate import across plasma membrane
+is_a: GO:0001504 {is_inferred="true"} ! neurotransmitter uptake
+is_a: GO:0006855 {is_inferred="true"} ! drug transmembrane transport
is_a: GO:0089718 {is_inferred="true"} ! amino acid import across plasma membrane
is_a: GO:1902475 {is_inferred="true"} ! L-alpha-amino acid transmembrane transport
is_a: GO:1903802 {is_inferred="true"} ! L-glutamate(1-) import across plasma membrane
@@ -59734,6 +67653,7 @@

[Term]
id: GO:0098717 ! pantothenate import across plasma membrane
+is_a: GO:0035461 {is_inferred="true"} ! vitamin transmembrane transport
is_a: GO:0098739 {is_inferred="true"} ! import across plasma membrane
is_a: GO:1901688 {is_inferred="true"} ! pantothenate import
is_a: GO:1905039 {is_inferred="true"} ! carboxylic acid transmembrane transport
@@ -62078,6 +69998,7 @@

[Term]
id: GO:0106064 ! regulation of cobalamin metabolic process
is_a: GO:0030656 {is_inferred="true"} ! regulation of vitamin metabolic process
+is_a: GO:0051193 {is_inferred="true"} ! regulation of cofactor metabolic process
is_a: GO:1901401 {is_inferred="true"} ! regulation of tetrapyrrole metabolic process

[Term]
@@ -62592,6 +70513,7 @@

[Term]
id: GO:0140009 ! L-aspartate import across plasma membrane
+is_a: GO:0001504 {is_inferred="true"} ! neurotransmitter uptake
is_a: GO:0043092 {is_inferred="true"} ! L-amino acid import
is_a: GO:0089712 {is_inferred="true"} ! L-aspartate transmembrane transport
is_a: GO:0089718 {is_inferred="true"} ! amino acid import across plasma membrane
@@ -63063,11 +70985,11 @@

[Term]
id: GO:1900065 ! regulation of ethanol catabolic process
-is_a: GO:0009894 {is_inferred="true"} ! regulation of catabolic process
+is_a: GO:0031329 {is_inferred="true"} ! regulation of cellular catabolic process

[Term]
id: GO:1900066 ! positive regulation of ethanol catabolic process
-is_a: GO:0009896 {is_inferred="true"} ! positive regulation of catabolic process
+is_a: GO:0031331 {is_inferred="true"} ! positive regulation of cellular catabolic
process
is_a: GO:1900065 {is_inferred="true"} ! regulation of ethanol catabolic process

[Term]
@@ -64371,6 +72293,7 @@
id: GO:1900333 ! regulation of methane biosynthetic process from
3-(methylthio)propionic acid
is_a: GO:0019217 {is_inferred="true"} ! regulation of fatty acid metabolic process
is_a: GO:0042762 {is_inferred="true"} ! regulation of sulfur metabolic process
```

+is_a: GO:0043455 {is_inferred="true"} ! regulation of secondary metabolic process
 is_a: GO:0043457 {is_inferred="true"} ! regulation of cellular respiration
 is_a: GO:1901577 {is_inferred="true"} ! regulation of alkane biosynthetic process

@@ -64392,6 +72315,7 @@

[Term]

id: GO:1900336 ! regulation of methane biosynthetic process from carbon monoxide
 +is_a: GO:0001505 {is_inferred="true"} ! regulation of neurotransmitter levels
 is_a: GO:0043457 {is_inferred="true"} ! regulation of cellular respiration
 is_a: GO:1901577 {is_inferred="true"} ! regulation of alkane biosynthetic process

@@ -65380,14 +73304,17 @@

[Term]

id: GO:1900539 ! fumonisin metabolic process
 is_a: GO:0019752 {is_inferred="true"} ! carboxylic acid metabolic process
 +is_a: GO:0043385 {is_inferred="true"} ! mycotoxin metabolic process

[Term]

id: GO:1900540 ! fumonisin catabolic process
 +is_a: GO:0043387 {is_inferred="true"} ! mycotoxin catabolic process
 is_a: GO:0046395 {is_inferred="true"} ! carboxylic acid catabolic process
 is_a: GO:1900539 {is_inferred="true"} ! fumonisin metabolic process

[Term]

id: GO:1900541 ! fumonisin biosynthetic process
 +is_a: GO:0043386 {is_inferred="true"} ! mycotoxin biosynthetic process
 is_a: GO:0046394 {is_inferred="true"} ! carboxylic acid biosynthetic process
 is_a: GO:1900539 {is_inferred="true"} ! fumonisin metabolic process

@@ -65440,6 +73367,7 @@

[Term]

id: GO:1900552 ! asperfuranone metabolic process
 +is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
 is_a: GO:0030638 {is_inferred="true"} ! polyketide metabolic process
 is_a: GO:0034311 {is_inferred="true"} ! diol metabolic process
 is_a: GO:0042180 {is_inferred="true"} ! cellular ketone metabolic process

@@ -65453,6 +73381,7 @@

is_a: GO:0030640 {is_inferred="true"} ! polyketide catabolic process
 is_a: GO:0034313 {is_inferred="true"} ! diol catabolic process
 is_a: GO:0042182 {is_inferred="true"} ! ketone catabolic process
 +is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
 is_a: GO:0046700 {is_inferred="true"} ! heterocycle catabolic process
 is_a: GO:1900552 {is_inferred="true"} ! asperfuranone metabolic process
 is_a: GO:1901361 {is_inferred="true"} ! organic cyclic compound catabolic process

@@ -65580,12 +73509,14 @@

[Term]

id: GO:1900573 ! emodin metabolic process
 +is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
 is_a: GO:0018958 {is_inferred="true"} ! phenol-containing compound metabolic process
 is_a: GO:1901661 {is_inferred="true"} ! quinone metabolic process

[Term]

id: GO:1900574 ! emodin catabolic process
 is_a: GO:0019336 {is_inferred="true"} ! phenol-containing compound catabolic process
 +is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
 is_a: GO:1900573 {is_inferred="true"} ! emodin metabolic process
 is_a: GO:1901662 {is_inferred="true"} ! quinone catabolic process

@@ -65672,16 +73603,19 @@

id: GO:1900588 ! violaceol I metabolic process
 is_a: GO:0009712 {is_inferred="true"} ! catechol-containing compound metabolic process
 is_a: GO:0018904 {is_inferred="true"} ! ether metabolic process
 +is_a: GO:0043385 {is_inferred="true"} ! mycotoxin metabolic process

[Term]
 id: GO:1900589 ! violaceol I catabolic process
 is_a: GO:0019614 {is_inferred="true"} ! catechol-containing compound catabolic process
 +is_a: GO:0043387 {is_inferred="true"} ! mycotoxin catabolic process
 is_a: GO:1900588 {is_inferred="true"} ! violaceol I metabolic process
 is_a: GO:1901502 {is_inferred="true"} ! ether catabolic process

[Term]
 id: GO:1900590 ! violaceol I biosynthetic process
 is_a: GO:0009713 {is_inferred="true"} ! catechol-containing compound biosynthetic process
 +is_a: GO:0043386 {is_inferred="true"} ! mycotoxin biosynthetic process
 is_a: GO:0018904 {is_inferred="true"} ! ether metabolic process
 is_a: GO:1901503 {is_inferred="true"} ! ether biosynthetic process

@@ -65689,16 +73623,19 @@
 id: GO:1900591 ! violaceol II metabolic process
 is_a: GO:0009712 {is_inferred="true"} ! catechol-containing compound metabolic process
 is_a: GO:0018904 {is_inferred="true"} ! ether metabolic process
 +is_a: GO:0043385 {is_inferred="true"} ! mycotoxin metabolic process

[Term]
 id: GO:1900592 ! violaceol II catabolic process
 is_a: GO:0019614 {is_inferred="true"} ! catechol-containing compound catabolic process
 +is_a: GO:0043387 {is_inferred="true"} ! mycotoxin catabolic process
 is_a: GO:1900591 {is_inferred="true"} ! violaceol II metabolic process
 is_a: GO:1901502 {is_inferred="true"} ! ether catabolic process

[Term]
 id: GO:1900593 ! violaceol II biosynthetic process
 is_a: GO:0009713 {is_inferred="true"} ! catechol-containing compound biosynthetic process
 +is_a: GO:0043386 {is_inferred="true"} ! mycotoxin biosynthetic process
 is_a: GO:1900591 {is_inferred="true"} ! violaceol II metabolic process
 is_a: GO:1901503 {is_inferred="true"} ! ether biosynthetic process

@@ -66532,6 +74469,8 @@
 [Term]
 id: GO:1900749 ! (R)-carnitine transport
 is_a: GO:0015879 {is_inferred="true"} ! carnitine transport
 +is_a: GO:0015893 {is_inferred="true"} ! drug transport
 +is_a: GO:0051180 {is_inferred="true"} ! vitamin transport

[Term]
 id: GO:1900750 ! oligopeptide binding
 @@ -66650,17 +74589,21 @@

[Term]
 id: GO:1900770 ! fumitremorgin B metabolic process
 is_a: GO:0035834 {is_inferred="true"} ! indole alkaloid metabolic process
 +is_a: GO:0043385 {is_inferred="true"} ! mycotoxin metabolic process
 is_a: GO:1901376 {is_inferred="true"} ! organic heteropentacyclic compound metabolic process

[Term]
 id: GO:1900771 ! fumitremorgin B catabolic process
 is_a: GO:0009822 {is_inferred="true"} ! alkaloid catabolic process
 +is_a: GO:0043387 {is_inferred="true"} ! mycotoxin catabolic process
 +is_a: GO:0051410 {is_inferred="true"} ! detoxification of nitrogen compound
 is_a: GO:1900770 {is_inferred="true"} ! fumitremorgin B metabolic process
 is_a: GO:1901377 {is_inferred="true"} ! organic heteropentacyclic compound catabolic process

[Term]
 id: GO:1900772 ! fumitremorgin B biosynthetic process
 is_a: GO:0035835 {is_inferred="true"} ! indole alkaloid biosynthetic process
 +is_a: GO:0043386 {is_inferred="true"} ! mycotoxin biosynthetic process
 is_a: GO:1900770 {is_inferred="true"} ! fumitremorgin B metabolic process

is_a: GO:1901378 {is_inferred="true"} ! organic heteropentacyclic compound biosynthetic process

@@ -66794,6 +74737,7 @@

[Term]

id: GO:1900794 ! terrequinone A metabolic process

is_a: GO:0009820 {is_inferred="true"} ! alkaloid metabolic process

+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process

is_a: GO:0046483 {is_inferred="true"} ! heterocycle metabolic process

is_a: GO:1901360 {is_inferred="true"} ! organic cyclic compound metabolic process

is_a: GO:1901615 {is_inferred="true"} ! organic hydroxy compound metabolic process

@@ -66802,6 +74746,7 @@

[Term]

id: GO:1900795 ! terrequinone A catabolic process

is_a: GO:0009822 {is_inferred="true"} ! alkaloid catabolic process

+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process

is_a: GO:0046700 {is_inferred="true"} ! heterocycle catabolic process

is_a: GO:1900794 {is_inferred="true"} ! terrequinone A metabolic process

is_a: GO:1901361 {is_inferred="true"} ! organic cyclic compound catabolic process

@@ -66820,11 +74765,13 @@

[Term]

id: GO:1900797 ! cordyol C metabolic process

is_a: GO:0009712 {is_inferred="true"} ! catechol-containing compound metabolic process

+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process

is_a: GO:0018904 {is_inferred="true"} ! ether metabolic process

[Term]

id: GO:1900798 ! cordyol C catabolic process

is_a: GO:0019614 {is_inferred="true"} ! catechol-containing compound catabolic process

+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process

is_a: GO:1900797 {is_inferred="true"} ! cordyol C metabolic process

is_a: GO:1901502 {is_inferred="true"} ! ether catabolic process

@@ -66938,6 +74885,7 @@

id: GO:1900816 ! ochratoxin A metabolic process

is_a: GO:0006575 {is_inferred="true"} ! cellular modified amino acid metabolic process

is_a: GO:0019752 {is_inferred="true"} ! carboxylic acid metabolic process

+is_a: GO:0043385 {is_inferred="true"} ! mycotoxin metabolic process

is_a: GO:0043603 {is_inferred="true"} ! cellular amide metabolic process

is_a: GO:0046483 {is_inferred="true"} ! heterocycle metabolic process

is_a: GO:1901360 {is_inferred="true"} ! organic cyclic compound metabolic process

@@ -66945,8 +74893,10 @@

[Term]

id: GO:1900817 ! ochratoxin A catabolic process

is_a: GO:0042219 {is_inferred="true"} ! cellular modified amino acid catabolic process

+is_a: GO:0043387 {is_inferred="true"} ! mycotoxin catabolic process

is_a: GO:0046395 {is_inferred="true"} ! carboxylic acid catabolic process

is_a: GO:0046700 {is_inferred="true"} ! heterocycle catabolic process

+is_a: GO:0051410 {is_inferred="true"} ! detoxification of nitrogen compound

is_a: GO:1900816 {is_inferred="true"} ! ochratoxin A metabolic process

is_a: GO:1901361 {is_inferred="true"} ! organic cyclic compound catabolic process

@@ -66954,6 +74904,7 @@

id: GO:1900818 ! ochratoxin A biosynthetic process

is_a: GO:0018130 {is_inferred="true"} ! heterocycle biosynthetic process

is_a: GO:0042398 {is_inferred="true"} ! cellular modified amino acid biosynthetic process

+is_a: GO:0043386 {is_inferred="true"} ! mycotoxin biosynthetic process

is_a: GO:0043604 {is_inferred="true"} ! amide biosynthetic process

is_a: GO:0046394 {is_inferred="true"} ! carboxylic acid biosynthetic process

is_a: GO:1900816 {is_inferred="true"} ! ochratoxin A metabolic process

@@ -67242,6 +75193,7 @@

id: GO:1900866 ! glycolate transport

is_a: GO:0015718 {is_inferred="true"} ! monocarboxylic acid transport

is_a: GO:0015850 {is_inferred="true"} ! organic hydroxy compound transport

+is_a: GO:0015893 {is_inferred="true"} ! drug transport


```
[Term]
id: GO:1900867 ! sarcinapterin metabolic process
@@ -67282,10 +75234,12 @@

[Term]
id: GO:1900874 ! heptadec-1-ene metabolic process
+is_a: GO:0042810 {is_inferred="true"} ! pheromone metabolic process
is_a: GO:0043449 {is_inferred="true"} ! cellular alkene metabolic process

[Term]
id: GO:1900875 ! heptadec-1-ene biosynthetic process
+is_a: GO:0042811 {is_inferred="true"} ! pheromone biosynthetic process
is_a: GO:0043450 {is_inferred="true"} ! alkene biosynthetic process
is_a: GO:1900874 {is_inferred="true"} ! heptadec-1-ene metabolic process

@@ -67520,58 +75474,76 @@

[Term]
id: GO:1900920 ! regulation of L-glutamate import
is_a: GO:0010958 {is_inferred="true"} ! regulation of amino acid import
+is_a: GO:0051588 {is_inferred="true"} ! regulation of neurotransmitter transport
+is_a: GO:2001023 {is_inferred="true"} ! regulation of response to drug

[Term]
id: GO:1900921 ! negative regulation of L-glutamate import
+is_a: GO:0051589 {is_inferred="true"} ! negative regulation of neurotransmitter
transport
is_a: GO:0051956 {is_inferred="true"} ! negative regulation of amino acid transport
is_a: GO:1900920 {is_inferred="true"} ! regulation of L-glutamate import
+is_a: GO:2001024 {is_inferred="true"} ! negative regulation of response to drug

[Term]
id: GO:1900922 ! positive regulation of L-glutamate import
+is_a: GO:0051590 {is_inferred="true"} ! positive regulation of neurotransmitter
transport
is_a: GO:0051957 {is_inferred="true"} ! positive regulation of amino acid transport
is_a: GO:1900920 {is_inferred="true"} ! regulation of L-glutamate import
+is_a: GO:2001025 {is_inferred="true"} ! positive regulation of response to drug

[Term]
id: GO:1900923 ! regulation of glycine import
is_a: GO:0010958 {is_inferred="true"} ! regulation of amino acid import
+is_a: GO:0051588 {is_inferred="true"} ! regulation of neurotransmitter transport
+is_a: GO:2001023 {is_inferred="true"} ! regulation of response to drug

[Term]
id: GO:1900924 ! negative regulation of glycine import
+is_a: GO:0051589 {is_inferred="true"} ! negative regulation of neurotransmitter
transport
is_a: GO:0051956 {is_inferred="true"} ! negative regulation of amino acid transport
is_a: GO:1900923 {is_inferred="true"} ! regulation of glycine import
+is_a: GO:2001024 {is_inferred="true"} ! negative regulation of response to drug

[Term]
id: GO:1900925 ! positive regulation of glycine import
+is_a: GO:0051590 {is_inferred="true"} ! positive regulation of neurotransmitter
transport
is_a: GO:0051957 {is_inferred="true"} ! positive regulation of amino acid transport
is_a: GO:1900923 {is_inferred="true"} ! regulation of glycine import
+is_a: GO:2001025 {is_inferred="true"} ! positive regulation of response to drug

[Term]
id: GO:1900926 ! regulation of L-threonine import
is_a: GO:0010958 {is_inferred="true"} ! regulation of amino acid import
+is_a: GO:2001023 {is_inferred="true"} ! regulation of response to drug

[Term]
id: GO:1900927 ! negative regulation of L-threonine import
```

is_a: GO:0051956 {is_inferred="true"} ! negative regulation of amino acid transport
 is_a: GO:1900926 {is_inferred="true"} ! regulation of L-threonine import
 +is_a: GO:2001024 {is_inferred="true"} ! negative regulation of response to drug

[Term]

id: GO:1900928 ! positive regulation of L-threonine import
 is_a: GO:0051957 {is_inferred="true"} ! positive regulation of amino acid transport
 is_a: GO:1900926 {is_inferred="true"} ! regulation of L-threonine import
 +is_a: GO:2001025 {is_inferred="true"} ! positive regulation of response to drug

[Term]

id: GO:1900929 ! regulation of L-tyrosine import
 is_a: GO:0010958 {is_inferred="true"} ! regulation of amino acid import
 +is_a: GO:2001023 {is_inferred="true"} ! regulation of response to drug

[Term]

id: GO:1900930 ! negative regulation of L-tyrosine import
 is_a: GO:0051956 {is_inferred="true"} ! negative regulation of amino acid transport
 is_a: GO:1900929 {is_inferred="true"} ! regulation of L-tyrosine import
 +is_a: GO:2001024 {is_inferred="true"} ! negative regulation of response to drug

[Term]

id: GO:1900931 ! positive regulation of L-tyrosine import
 is_a: GO:0051957 {is_inferred="true"} ! positive regulation of amino acid transport
 is_a: GO:1900929 {is_inferred="true"} ! regulation of L-tyrosine import
 +is_a: GO:2001025 {is_inferred="true"} ! positive regulation of response to drug

[Term]

id: GO:1900932 ! regulation of nonadec-1-ene metabolic process
 @@ -67858,17 +75830,20 @@
 id: GO:1900980 ! regulation of phenazine biosynthetic process
 is_a: GO:0031326 {is_inferred="true"} ! regulation of cellular biosynthetic process
 is_a: GO:0051171 {is_inferred="true"} ! regulation of nitrogen compound metabolic process
 +is_a: GO:1900376 {is_inferred="true"} ! regulation of secondary metabolite biosynthetic process

[Term]

id: GO:1900981 ! negative regulation of phenazine biosynthetic process
 is_a: GO:0031327 {is_inferred="true"} ! negative regulation of cellular biosynthetic process
 is_a: GO:0051172 {is_inferred="true"} ! negative regulation of nitrogen compound metabolic process
 +is_a: GO:1900377 {is_inferred="true"} ! negative regulation of secondary metabolite biosynthetic process
 is_a: GO:1900980 {is_inferred="true"} ! regulation of phenazine biosynthetic process

[Term]

id: GO:1900982 ! positive regulation of phenazine biosynthetic process
 is_a: GO:0031328 {is_inferred="true"} ! positive regulation of cellular biosynthetic process
 is_a: GO:0051173 {is_inferred="true"} ! positive regulation of nitrogen compound metabolic process
 +is_a: GO:1900378 {is_inferred="true"} ! positive regulation of secondary metabolite biosynthetic process
 is_a: GO:1900980 {is_inferred="true"} ! regulation of phenazine biosynthetic process

[Term]

@@ -67911,6 +75886,7 @@

[Term]

id: GO:1900989 ! scopolamine metabolic process
 +is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
 is_a: GO:0046448 {is_inferred="true"} ! tropane alkaloid metabolic process
 is_a: GO:0097164 {is_inferred="true"} ! ammonium ion metabolic process
 is_a: GO:0097176 {is_inferred="true"} ! epoxide metabolic process
 @@ -67918,6 +75894,7 @@

```
[Term]
id: GO:1900990 ! scopolamine catabolic process
is_a: GO:0009822 {is_inferred="true"} ! alkaloid catabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:0046700 {is_inferred="true"} ! heterocycle catabolic process
is_a: GO:1900989 {is_inferred="true"} ! scopolamine metabolic process
is_a: GO:1901361 {is_inferred="true"} ! organic cyclic compound catabolic process
@@ -68165,16 +76142,19 @@
id: GO:1901034 ! regulation of L-glutamine import
is_a: GO:0010958 {is_inferred="true"} ! regulation of amino acid import
is_a: GO:2000485 {is_inferred="true"} ! regulation of glutamine transport
+is_a: GO:2001023 {is_inferred="true"} ! regulation of response to drug

[Term]
id: GO:1901035 ! negative regulation of L-glutamine import
is_a: GO:1901034 {is_inferred="true"} ! regulation of L-glutamine import
is_a: GO:2000486 {is_inferred="true"} ! negative regulation of glutamine transport
+is_a: GO:2001024 {is_inferred="true"} ! negative regulation of response to drug

[Term]
id: GO:1901036 ! positive regulation of L-glutamine import
is_a: GO:1901034 {is_inferred="true"} ! regulation of L-glutamine import
is_a: GO:2000487 {is_inferred="true"} ! positive regulation of glutamine transport
+is_a: GO:2001025 {is_inferred="true"} ! positive regulation of response to drug

[Term]
id: GO:1901038 ! cyanidin 3-O-glucoside metabolic process
@@ -68201,6 +76181,7 @@
id: GO:1901042 ! positive regulation of L-arginine import
is_a: GO:0010963 {is_inferred="true"} ! regulation of L-arginine import
is_a: GO:0051957 {is_inferred="true"} ! positive regulation of amino acid transport
+is_a: GO:2001025 {is_inferred="true"} ! positive regulation of response to drug

[Term]
id: GO:1901044 ! protein polyubiquitination involved in nucleus-associated proteasomal
ubiquitin-dependent protein catabolic process
@@ -68231,11 +76212,11 @@

[Term]
id: GO:1901049 ! atropine metabolic process
-is_a: GO:0008152 {is_inferred="true"} ! metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process

[Term]
id: GO:1901050 ! atropine catabolic process
-is_a: GO:0009056 {is_inferred="true"} ! catabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:1901049 {is_inferred="true"} ! atropine metabolic process

[Term]
@@ -68321,6 +76302,7 @@
id: GO:1901067 ! ferulate catabolic process
is_a: GO:0019336 {is_inferred="true"} ! phenol-containing compound catabolic process
is_a: GO:0033494 {is_inferred="true"} ! ferulate metabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:0072329 {is_inferred="true"} ! monocarboxylic acid catabolic process
is_a: GO:1901502 {is_inferred="true"} ! ether catabolic process

@@ -68418,6 +76400,7 @@
[Term]
id: GO:1901087 ! benzylpenicillin catabolic process
is_a: GO:0042317 {is_inferred="true"} ! penicillin catabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:1901086 {is_inferred="true"} ! benzylpenicillin metabolic process

[Term]
@@ -68508,6 +76491,7 @@
```

```
[Term]
id: GO:1901107 ! granaticin metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0030638 {is_inferred="true"} ! polyketide metabolic process
is_a: GO:0046483 {is_inferred="true"} ! heterocycle metabolic process
is_a: GO:1901360 {is_inferred="true"} ! organic cyclic compound metabolic process
@@ -68516,6 +76500,7 @@
```

```
[Term]
id: GO:1901108 ! granaticin catabolic process
is_a: GO:0030640 {is_inferred="true"} ! polyketide catabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:0046700 {is_inferred="true"} ! heterocycle catabolic process
is_a: GO:1901107 {is_inferred="true"} ! granaticin metabolic process
is_a: GO:1901361 {is_inferred="true"} ! organic cyclic compound catabolic process
@@ -68557,12 +76542,14 @@
```

```
[Term]
id: GO:1901113 ! erythromycin metabolic process
+is_a: GO:0006805 {is_inferred="true"} ! xenobiotic metabolic process
is_a: GO:0033067 {is_inferred="true"} ! macrolide metabolic process
is_a: GO:0097164 {is_inferred="true"} ! ammonium ion metabolic process
```

```
[Term]
id: GO:1901114 ! erythromycin catabolic process
is_a: GO:0030640 {is_inferred="true"} ! polyketide catabolic process
+is_a: GO:0042178 {is_inferred="true"} ! xenobiotic catabolic process
is_a: GO:1901113 {is_inferred="true"} ! erythromycin metabolic process
is_a: GO:1901335 {is_inferred="true"} ! lactone catabolic process
```

```
@@ -68590,18 +76577,22 @@
```

```
[Term]
id: GO:1901119 ! tobramycin metabolic process
+is_a: GO:0009404 {is_inferred="true"} ! toxin metabolic process
is_a: GO:0016137 {is_inferred="true"} ! glycoside metabolic process
is_a: GO:0019751 {is_inferred="true"} ! polyol metabolic process
is_a: GO:0097164 {is_inferred="true"} ! ammonium ion metabolic process
```

```
[Term]
id: GO:1901120 ! tobramycin catabolic process
+is_a: GO:0009407 {is_inferred="true"} ! toxin catabolic process
is_a: GO:0016139 {is_inferred="true"} ! glycoside catabolic process
is_a: GO:0046174 {is_inferred="true"} ! polyol catabolic process
+is_a: GO:0051410 {is_inferred="true"} ! detoxification of nitrogen compound
is_a: GO:1901119 {is_inferred="true"} ! tobramycin metabolic process
```

```
[Term]
id: GO:1901121 ! tobramycin biosynthetic process
+is_a: GO:0009403 {is_inferred="true"} ! toxin biosynthetic process
is_a: GO:0016138 {is_inferred="true"} ! glycoside biosynthetic process
is_a: GO:0046173 {is_inferred="true"} ! polyol biosynthetic process
is_a: GO:1901119 {is_inferred="true"} ! tobramycin metabolic process
@@ -68622,10 +76613,12 @@
```

```
[Term]
id: GO:1901125 ! candididin metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0071704 {is_inferred="true"} ! organic substance metabolic process
```

```
[Term]
id: GO:1901126 ! candididin catabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:1901125 {is_inferred="true"} ! candididin metabolic process
is_a: GO:1901575 {is_inferred="true"} ! organic substance catabolic process
```

```
@@ -68707,7 +76700,9 @@
```

[Term]

id: GO:1901149 ! salicylic acid binding
 +is_a: GO:0008144 {is_inferred="true"} ! drug binding
 is_a: GO:0033293 {is_inferred="true"} ! monocarboxylic acid binding
 +is_a: GO:0042562 {is_inferred="true"} ! hormone binding
 is_a: GO:0097159 {is_inferred="true"} ! organic cyclic compound binding

[Term]

@@ -68715,10 +76710,12 @@
 is_a: GO:0006790 {is_inferred="true"} ! sulfur compound metabolic process
 is_a: GO:0006807 {is_inferred="true"} ! nitrogen compound metabolic process
 is_a: GO:0016137 {is_inferred="true"} ! glycoside metabolic process
 +is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process

[Term]

id: GO:1901151 ! vistamycin catabolic process
 is_a: GO:0016139 {is_inferred="true"} ! glycoside catabolic process
 +is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
 is_a: GO:0044273 {is_inferred="true"} ! sulfur compound catabolic process
 is_a: GO:1901150 {is_inferred="true"} ! vistamycin metabolic process

@@ -68730,12 +76727,14 @@

[Term]

id: GO:1901153 ! paromomycin metabolic process
 +is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
 is_a: GO:0019751 {is_inferred="true"} ! polyol metabolic process
 is_a: GO:0030647 {is_inferred="true"} ! aminoglycoside antibiotic metabolic process

[Term]

id: GO:1901154 ! paromomycin catabolic process
 is_a: GO:0030649 {is_inferred="true"} ! aminoglycoside antibiotic catabolic process
 +is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
 is_a: GO:0046174 {is_inferred="true"} ! polyol catabolic process
 is_a: GO:1901153 {is_inferred="true"} ! paromomycin metabolic process

@@ -68824,6 +76823,7 @@

id: GO:1901170 ! naphthalene catabolic process
 is_a: GO:0018931 {is_inferred="true"} ! naphthalene metabolic process
 is_a: GO:0019439 {is_inferred="true"} ! aromatic compound catabolic process
 +is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
 is_a: GO:1901361 {is_inferred="true"} ! organic cyclic compound catabolic process

[Term]

@@ -68879,8 +76879,7 @@

[Term]

id: GO:1901181 ! negative regulation of cellular response to caffeine
 -is_a: GO:0048523 {is_inferred="true"} ! negative regulation of cellular process
 -is_a: GO:0048585 {is_inferred="true"} ! negative regulation of response to stimulus
 +is_a: GO:2001039 {is_inferred="true"} ! negative regulation of cellular response to drug

[Term]

id: GO:1901182 ! regulation of camalexin biosynthetic process
 @@ -69152,6 +77151,8 @@

[Term]

id: GO:1901235 ! (R)-carnitine transmembrane transporter activity
 is_a: GO:0015226 {is_inferred="true"} ! carnitine transmembrane transporter activity
 +is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity
 +is_a: GO:0090482 {is_inferred="true"} ! vitamin transmembrane transporter activity

[Term]

id: GO:1901236 ! 4-(trimethylammonio)butanoate transmembrane transporter activity
 @@ -69310,6 +77311,7 @@

[Term]

id: GO:1901267 ! cephalosporin C catabolic process
is_a: GO:0030655 {is_inferred="true"} ! beta-lactam antibiotic catabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:0044273 {is_inferred="true"} ! sulfur compound catabolic process
is_a: GO:0046395 {is_inferred="true"} ! carboxylic acid catabolic process
is_a: GO:1901266 {is_inferred="true"} ! cephalosporin C metabolic process
@@ -69565,10 +77567,12 @@

[Term]

id: GO:1901322 ! response to chloramphenicol
is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound
+is_a: GO:0042493 {is_inferred="true"} ! response to drug
is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]

id: GO:1901323 ! response to erythromycin
+is_a: GO:0009410 {is_inferred="true"} ! response to xenobiotic stimulus
is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
is_a: GO:0060359 {is_inferred="true"} ! response to ammonium ion
is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound
@@ -69577,6 +77581,7 @@

id: GO:1901324 ! response to trichodermin
is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
is_a: GO:0045472 {is_inferred="true"} ! response to ether
+is_a: GO:0097327 {is_inferred="true"} ! response to antineoplastic agent

[Term]

id: GO:1901325 ! response to antimycin A
@@ -69587,16 +77592,19 @@

[Term]

id: GO:1901326 ! response to tetracycline
is_a: GO:0010033 {is_inferred="true"} ! response to organic substance
+is_a: GO:0042493 {is_inferred="true"} ! response to drug
is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]

id: GO:1901327 ! response to tacrolimus
-is_a: GO:0042221 {is_inferred="true"} ! response to chemical
+is_a: GO:0042493 {is_inferred="true"} ! response to drug

[Term]

id: GO:1901328 ! response to cytochalasin B
+is_a: GO:0010046 {is_inferred="true"} ! response to mycotoxin
is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound
is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
+is_a: GO:0061478 {is_inferred="true"} ! response to platelet aggregation inhibitor
is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]

@@ -69717,6 +77725,7 @@

[Term]

id: GO:1901354 ! response to L-canavanine
+is_a: GO:0017085 {is_inferred="true"} ! response to insecticide
is_a: GO:0043200 {is_inferred="true"} ! response to amino acid

[Term]

@@ -69725,6 +77734,7 @@
is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
is_a: GO:0045472 {is_inferred="true"} ! response to ether
is_a: GO:0097305 {is_inferred="true"} ! response to alcohol
+is_a: GO:0097327 {is_inferred="true"} ! response to antineoplastic agent
is_a: GO:1901654 {is_inferred="true"} ! response to ketone

[Term]

@@ -70010,6 +78020,7 @@

[Term]

id: GO:1901413 ! regulation of tetrapyrrole biosynthetic process from glycine and succinyl-CoA
+is_a: GO:0001505 {is_inferred="true"} ! regulation of neurotransmitter levels
is_a: GO:0006521 {is_inferred="true"} ! regulation of cellular amino acid metabolic process

is_a: GO:0042762 {is_inferred="true"} ! regulation of sulfur metabolic process
is_a: GO:0051174 {is_inferred="true"} ! regulation of phosphorus metabolic process
@@ -70037,16 +78048,19 @@

[Term]

id: GO:1901416 ! regulation of response to ethanol
is_a: GO:1901419 {is_inferred="true"} ! regulation of response to alcohol
+is_a: GO:2001023 {is_inferred="true"} ! regulation of response to drug

[Term]

id: GO:1901417 ! negative regulation of response to ethanol
is_a: GO:1901416 {is_inferred="true"} ! regulation of response to ethanol
is_a: GO:1901420 {is_inferred="true"} ! negative regulation of response to alcohol
+is_a: GO:2001024 {is_inferred="true"} ! negative regulation of response to drug

[Term]

id: GO:1901418 ! positive regulation of response to ethanol
is_a: GO:1901416 {is_inferred="true"} ! regulation of response to ethanol
is_a: GO:1901421 {is_inferred="true"} ! positive regulation of response to alcohol
+is_a: GO:2001025 {is_inferred="true"} ! positive regulation of response to drug

[Term]

id: GO:1901419 ! regulation of response to alcohol
@@ -70073,12 +78087,15 @@

[Term]

id: GO:1901424 ! response to toluene
+is_a: GO:0009636 {is_inferred="true"} ! response to toxic substance
is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
+is_a: GO:0042493 {is_inferred="true"} ! response to drug

[Term]

id: GO:1901425 ! response to formic acid
is_a: GO:0001101 {is_inferred="true"} ! response to acid chemical
is_a: GO:0010033 {is_inferred="true"} ! response to organic substance
+is_a: GO:0042493 {is_inferred="true"} ! response to drug
is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]

@@ -70217,17 +78234,17 @@

[Term]

id: GO:1901454 ! regulation of response to toluene
-is_a: GO:0048583 {is_inferred="true"} ! regulation of response to stimulus
+is_a: GO:2001023 {is_inferred="true"} ! regulation of response to drug

[Term]

id: GO:1901455 ! negative regulation of response to toluene
-is_a: GO:0048585 {is_inferred="true"} ! negative regulation of response to stimulus
is_a: GO:1901454 {is_inferred="true"} ! regulation of response to toluene
+is_a: GO:2001024 {is_inferred="true"} ! negative regulation of response to drug

[Term]

id: GO:1901456 ! positive regulation of response to toluene
-is_a: GO:0048584 {is_inferred="true"} ! positive regulation of response to stimulus
is_a: GO:1901454 {is_inferred="true"} ! regulation of response to toluene
+is_a: GO:2001025 {is_inferred="true"} ! positive regulation of response to drug

[Term]

id: GO:1901457 ! regulation of response to acetate
@@ -70245,17 +78262,17 @@

[Term]

id: GO:1901460 ! regulation of response to formic acid
-is_a: GO:0048583 {is_inferred="true"} ! regulation of response to stimulus
+is_a: GO:2001023 {is_inferred="true"} ! regulation of response to drug

[Term]

id: GO:1901461 ! negative regulation of response to formic acid
-is_a: GO:0048585 {is_inferred="true"} ! negative regulation of response to stimulus
is_a: GO:1901460 {is_inferred="true"} ! regulation of response to formic acid
+is_a: GO:2001024 {is_inferred="true"} ! negative regulation of response to drug

[Term]

id: GO:1901462 ! positive regulation of response to formic acid
-is_a: GO:0048584 {is_inferred="true"} ! positive regulation of response to stimulus
is_a: GO:1901460 {is_inferred="true"} ! regulation of response to formic acid
+is_a: GO:2001025 {is_inferred="true"} ! positive regulation of response to drug

[Term]

id: GO:1901463 ! regulation of tetrapyrrole biosynthetic process
@@ -70414,6 +78431,7 @@

[Term]

id: GO:1901499 ! response to hexane
+is_a: GO:0009636 {is_inferred="true"} ! response to toxic substance
is_a: GO:1902778 {is_inferred="true"} ! response to alkane

[Term]

@@ -70693,35 +78711,47 @@

[Term]

id: GO:1901554 ! response to paracetamol
+is_a: GO:0009410 {is_inferred="true"} ! response to xenobiotic stimulus
is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound
is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
+is_a: GO:0042493 {is_inferred="true"} ! response to drug
is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]

id: GO:1901555 ! response to paclitaxel
is_a: GO:0033993 {is_inferred="true"} ! response to lipid
+is_a: GO:0097327 {is_inferred="true"} ! response to antineoplastic agent

[Term]

id: GO:1901556 ! response to candesartan
is_a: GO:0001101 {is_inferred="true"} ! response to acid chemical
+is_a: GO:0009410 {is_inferred="true"} ! response to xenobiotic stimulus
is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound
is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
+is_a: GO:0042493 {is_inferred="true"} ! response to drug
is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]

id: GO:1901557 ! response to fenofibrate
+is_a: GO:0009410 {is_inferred="true"} ! response to xenobiotic stimulus
is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
+is_a: GO:0042493 {is_inferred="true"} ! response to drug
is_a: GO:0045472 {is_inferred="true"} ! response to ether
is_a: GO:1901654 {is_inferred="true"} ! response to ketone

[Term]

id: GO:1901558 ! response to metformin
+is_a: GO:0009410 {is_inferred="true"} ! response to xenobiotic stimulus
is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound
+is_a: GO:0042493 {is_inferred="true"} ! response to drug

[Term]

id: GO:1901559 ! response to ribavirin
is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound

is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
 +is_a: GO:0042493 {is_inferred="true"} ! response to drug
 +is_a: GO:0061479 {is_inferred="true"} ! response to reverse transcriptase inhibitor
 +is_a: GO:0097329 {is_inferred="true"} ! response to antimetabolite
 is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]

@@ -70732,10 +78762,13 @@

id: GO:1901561 ! response to benomyl
 is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound
 is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
 +is_a: GO:0042493 {is_inferred="true"} ! response to drug
 +is_a: GO:0060992 {is_inferred="true"} ! response to fungicide
 is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]

id: GO:1901562 ! response to paraquat
 +is_a: GO:0009635 {is_inferred="true"} ! response to herbicide
 is_a: GO:0010033 {is_inferred="true"} ! response to organic substance

[Term]

@@ -70743,6 +78776,7 @@

is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
 is_a: GO:0043279 {is_inferred="true"} ! response to alkaloid
 is_a: GO:0097305 {is_inferred="true"} ! response to alcohol
 +is_a: GO:0097327 {is_inferred="true"} ! response to antineoplastic agent

[Term]

id: GO:1901565 ! organonitrogen compound catabolic process
 @@ -70864,12 +78898,15 @@

[Term]

id: GO:1901596 ! response to reversine
 is_a: GO:0014074 {is_inferred="true"} ! response to purine-containing compound
 +is_a: GO:0097327 {is_inferred="true"} ! response to antineoplastic agent
 is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]

id: GO:1901597 ! response to carbendazim
 is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound
 is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
 +is_a: GO:0042493 {is_inferred="true"} ! response to drug
 +is_a: GO:0060992 {is_inferred="true"} ! response to fungicide
 is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]

@@ -70891,11 +78928,13 @@

[Term]

id: GO:1901600 ! strigolactone metabolic process
 is_a: GO:0006714 {is_inferred="true"} ! sesquiterpenoid metabolic process
 +is_a: GO:0042445 {is_inferred="true"} ! hormone metabolic process
 is_a: GO:1901334 {is_inferred="true"} ! lactone metabolic process

[Term]

id: GO:1901601 ! strigolactone biosynthetic process
 is_a: GO:0016106 {is_inferred="true"} ! sesquiterpenoid biosynthetic process
 +is_a: GO:0042446 {is_inferred="true"} ! hormone biosynthetic process
 is_a: GO:1901336 {is_inferred="true"} ! lactone biosynthetic process
 is_a: GO:1901600 {is_inferred="true"} ! strigolactone metabolic process

@@ -71265,6 +79304,8 @@

id: GO:1901688 ! pantothenate import
 is_a: GO:0015718 {is_inferred="true"} ! monocarboxylic acid transport
 is_a: GO:0042886 {is_inferred="true"} ! amide transport
 +is_a: GO:0051180 {is_inferred="true"} ! vitamin transport
 +is_a: GO:0051181 {is_inferred="true"} ! cofactor transport
 is_a: GO:0072337 {is_inferred="true"} ! modified amino acid transport

```
[Term]
@@ -71296,6 +79337,7 @@

[Term]
id: GO:1901695 ! tyramine biosynthetic process
+is_a: GO:0042136 {is_inferred="true"} ! neurotransmitter biosynthetic process
is_a: GO:0046189 {is_inferred="true"} ! phenol-containing compound biosynthetic
process
is_a: GO:0097164 {is_inferred="true"} ! ammonium ion metabolic process
is_a: GO:1901162 {is_inferred="true"} ! primary amino compound biosynthetic process
@@ -71337,6 +79379,7 @@

[Term]
id: GO:1901704 ! L-glutamine biosynthetic process
is_a: GO:0006542 {is_inferred="true"} ! glutamine biosynthetic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process

[Term]
id: GO:1901705 ! L-isoleucine biosynthetic process
@@ -71392,6 +79435,7 @@

[Term]
id: GO:1901715 ! regulation of gamma-aminobutyric acid catabolic process
+is_a: GO:0001505 {is_inferred="true"} ! regulation of neurotransmitter levels
is_a: GO:0006521 {is_inferred="true"} ! regulation of cellular amino acid metabolic
process
is_a: GO:0031329 {is_inferred="true"} ! regulation of cellular catabolic process
@@ -71454,12 +79498,14 @@

[Term]
id: GO:1901728 ! monensin A metabolic process
is_a: GO:0006066 {is_inferred="true"} ! alcohol metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0032787 {is_inferred="true"} ! monocarboxylic acid metabolic process
is_a: GO:0046483 {is_inferred="true"} ! heterocycle metabolic process
is_a: GO:1901360 {is_inferred="true"} ! organic cyclic compound metabolic process

[Term]
id: GO:1901729 ! monensin A catabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:0046164 {is_inferred="true"} ! alcohol catabolic process
is_a: GO:0046700 {is_inferred="true"} ! heterocycle catabolic process
is_a: GO:0072329 {is_inferred="true"} ! monocarboxylic acid catabolic process
@@ -71482,17 +79528,22 @@

[Term]
id: GO:1901732 ! quercetin metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
+is_a: GO:0042445 {is_inferred="true"} ! hormone metabolic process
is_a: GO:0051552 {is_inferred="true"} ! flavone metabolic process
is_a: GO:1901615 {is_inferred="true"} ! organic hydroxy compound metabolic process

[Term]
id: GO:1901733 ! quercetin catabolic process
+is_a: GO:0042447 {is_inferred="true"} ! hormone catabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:0046275 {is_inferred="true"} ! flavonoid catabolic process
is_a: GO:1901616 {is_inferred="true"} ! organic hydroxy compound catabolic process
is_a: GO:1901732 {is_inferred="true"} ! quercetin metabolic process

[Term]
id: GO:1901734 ! quercetin biosynthetic process
+is_a: GO:0042446 {is_inferred="true"} ! hormone biosynthetic process
is_a: GO:0051553 {is_inferred="true"} ! flavone biosynthetic process
is_a: GO:1901617 {is_inferred="true"} ! organic hydroxy compound biosynthetic process
is_a: GO:1901732 {is_inferred="true"} ! quercetin metabolic process
@@ -71570,10 +79621,12 @@
is_a: GO:0006518 {is_inferred="true"} ! peptide metabolic process
```

is_a: GO:0006691 {is_inferred="true"} ! leukotriene metabolic process
is_a: GO:0006790 {is_inferred="true"} ! sulfur compound metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process

[Term]

id: GO:1901749 ! leukotriene D4 catabolic process
is_a: GO:0036100 {is_inferred="true"} ! leukotriene catabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:0043171 {is_inferred="true"} ! peptide catabolic process
is_a: GO:0044273 {is_inferred="true"} ! sulfur compound catabolic process
is_a: GO:1901748 {is_inferred="true"} ! leukotriene D4 metabolic process
@@ -71616,12 +79669,14 @@

[Term]

id: GO:1901754 ! vitamin D3 catabolic process
is_a: GO:0042369 {is_inferred="true"} ! vitamin D catabolic process
+is_a: GO:0042447 {is_inferred="true"} ! hormone catabolic process
is_a: GO:0046164 {is_inferred="true"} ! alcohol catabolic process
is_a: GO:0070640 {is_inferred="true"} ! vitamin D3 metabolic process

[Term]

id: GO:1901755 ! vitamin D3 biosynthetic process
is_a: GO:0042368 {is_inferred="true"} ! vitamin D biosynthetic process
+is_a: GO:0042446 {is_inferred="true"} ! hormone biosynthetic process
is_a: GO:0070640 {is_inferred="true"} ! vitamin D3 metabolic process
is_a: GO:1902653 {is_inferred="true"} ! secondary alcohol biosynthetic process

@@ -71657,11 +79712,13 @@

[Term]

id: GO:1901761 ! oxytetracycline metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0030638 {is_inferred="true"} ! polyketide metabolic process

[Term]

id: GO:1901762 ! oxytetracycline catabolic process
is_a: GO:0030640 {is_inferred="true"} ! polyketide catabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:1901761 {is_inferred="true"} ! oxytetracycline metabolic process

[Term]

@@ -71703,6 +79760,8 @@
is_a: GO:0019439 {is_inferred="true"} ! aromatic compound catabolic process
is_a: GO:0030640 {is_inferred="true"} ! polyketide catabolic process
is_a: GO:0030649 {is_inferred="true"} ! aminoglycoside antibiotic catabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
+is_a: GO:0051410 {is_inferred="true"} ! detoxification of nitrogen compound
is_a: GO:1901361 {is_inferred="true"} ! organic cyclic compound catabolic process
is_a: GO:1901662 {is_inferred="true"} ! quinone catabolic process

@@ -71741,6 +79800,7 @@

[Term]

id: GO:1901775 ! mitomycin C metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0046483 {is_inferred="true"} ! heterocycle metabolic process
is_a: GO:1901360 {is_inferred="true"} ! organic cyclic compound metabolic process
is_a: GO:1901564 {is_inferred="true"} ! organonitrogen compound metabolic process
@@ -71748,6 +79808,7 @@

[Term]

id: GO:1901776 ! mitomycin C catabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:0046700 {is_inferred="true"} ! heterocycle catabolic process
is_a: GO:1901361 {is_inferred="true"} ! organic cyclic compound catabolic process
is_a: GO:1901565 {is_inferred="true"} ! organonitrogen compound catabolic process
@@ -71806,15 +79867,18 @@

```
[Term]
id: GO:1901784 ! p-cresol metabolic process
+is_a: GO:0009404 {is_inferred="true"} ! toxin metabolic process
is_a: GO:0042212 {is_inferred="true"} ! cresol metabolic process

[Term]
id: GO:1901785 ! p-cresol catabolic process
+is_a: GO:0009407 {is_inferred="true"} ! toxin catabolic process
is_a: GO:0046199 {is_inferred="true"} ! cresol catabolic process
is_a: GO:1901784 {is_inferred="true"} ! p-cresol metabolic process

[Term]
id: GO:1901786 ! p-cresol biosynthetic process
+is_a: GO:0009403 {is_inferred="true"} ! toxin biosynthetic process
is_a: GO:0046189 {is_inferred="true"} ! phenol-containing compound biosynthetic
process
is_a: GO:1901784 {is_inferred="true"} ! p-cresol metabolic process

@@ -71944,10 +80008,12 @@
[Term]
id: GO:1901813 ! astaxanthin metabolic process
is_a: GO:0016122 {is_inferred="true"} ! xanthophyll metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process

[Term]
id: GO:1901814 ! astaxanthin catabolic process
is_a: GO:0016124 {is_inferred="true"} ! xanthophyll catabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:1901813 {is_inferred="true"} ! astaxanthin metabolic process

[Term]
@@ -72115,7 +80181,9 @@
[Term]
id: GO:1901847 ! nicotinate metabolic process
is_a: GO:0006725 {is_inferred="true"} ! cellular aromatic compound metabolic process
+is_a: GO:0006767 {is_inferred="true"} ! water-soluble vitamin metabolic process
is_a: GO:0009820 {is_inferred="true"} ! alkaloid metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0032787 {is_inferred="true"} ! monocarboxylic acid metabolic process
is_a: GO:0072524 {is_inferred="true"} ! pyridine-containing compound metabolic process

@@ -72123,6 +80191,8 @@
id: GO:1901848 ! nicotinate catabolic process
is_a: GO:0009822 {is_inferred="true"} ! alkaloid catabolic process
is_a: GO:0019439 {is_inferred="true"} ! aromatic compound catabolic process
+is_a: GO:0042365 {is_inferred="true"} ! water-soluble vitamin catabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:0072329 {is_inferred="true"} ! monocarboxylic acid catabolic process
is_a: GO:0072526 {is_inferred="true"} ! pyridine-containing compound catabolic process
is_a: GO:1901847 {is_inferred="true"} ! nicotinate metabolic process
@@ -72131,6 +80201,7 @@
id: GO:1901849 ! nicotinate biosynthetic process
is_a: GO:0009821 {is_inferred="true"} ! alkaloid biosynthetic process
is_a: GO:0019438 {is_inferred="true"} ! aromatic compound biosynthetic process
+is_a: GO:0042364 {is_inferred="true"} ! water-soluble vitamin biosynthetic process
is_a: GO:0072330 {is_inferred="true"} ! monocarboxylic acid biosynthetic process
is_a: GO:0072525 {is_inferred="true"} ! pyridine-containing compound biosynthetic
process
is_a: GO:1901847 {is_inferred="true"} ! nicotinate metabolic process
@@ -72138,12 +80209,14 @@
[Term]
id: GO:1901850 ! 7,8-didemethyl-8-hydroxy-5-deazariboflavin metabolic process
is_a: GO:0046483 {is_inferred="true"} ! heterocycle metabolic process
+is_a: GO:0051186 {is_inferred="true"} ! cofactor metabolic process
is_a: GO:1901360 {is_inferred="true"} ! organic cyclic compound metabolic process
is_a: GO:1901564 {is_inferred="true"} ! organonitrogen compound metabolic process
```

[Term]
 id: GO:1901851 ! 7,8-didemethyl-8-hydroxy-5-deazariboflavin catabolic process
 is_a: GO:0046700 {is_inferred="true"} ! heterocycle catabolic process
 +is_a: GO:0051187 {is_inferred="true"} ! cofactor catabolic process
 is_a: GO:1901361 {is_inferred="true"} ! organic cyclic compound catabolic process
 is_a: GO:1901565 {is_inferred="true"} ! organonitrogen compound catabolic process
 is_a: GO:1901850 {is_inferred="true"} ! 7,8-didemethyl-8-hydroxy-5-deazariboflavin
 metabolic process
 @@ -72151,6 +80224,7 @@

[Term]
 id: GO:1901852 ! 7,8-didemethyl-8-hydroxy-5-deazariboflavin biosynthetic process
 is_a: GO:0018130 {is_inferred="true"} ! heterocycle biosynthetic process
 +is_a: GO:0051188 {is_inferred="true"} ! cofactor biosynthetic process
 is_a: GO:1901362 {is_inferred="true"} ! organic cyclic compound biosynthetic process
 is_a: GO:1901566 {is_inferred="true"} ! organonitrogen compound biosynthetic process
 is_a: GO:1901850 {is_inferred="true"} ! 7,8-didemethyl-8-hydroxy-5-deazariboflavin
 metabolic process
 @@ -72230,12 +80304,14 @@

[Term]
 id: GO:1901867 ! ecgonine methyl ester metabolic process
 +is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
 is_a: GO:0046448 {is_inferred="true"} ! tropane alkaloid metabolic process
 is_a: GO:0097164 {is_inferred="true"} ! ammonium ion metabolic process

[Term]
 id: GO:1901868 ! ecgonine methyl ester catabolic process
 is_a: GO:0009822 {is_inferred="true"} ! alkaloid catabolic process
 +is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
 is_a: GO:0046700 {is_inferred="true"} ! heterocycle catabolic process
 is_a: GO:1901361 {is_inferred="true"} ! organic cyclic compound catabolic process
 is_a: GO:1901867 {is_inferred="true"} ! ecgonine methyl ester metabolic process
 @@ -72428,6 +80504,7 @@

[Term]
 id: GO:1901905 ! response to tamsulosin
 +is_a: GO:0097327 {is_inferred="true"} ! response to antineoplastic agent
 is_a: GO:1901698 {is_inferred="true"} ! response to nitrogen compound

[Term]
 @@ -72710,8 +80787,8 @@

[Term]
 id: GO:1901962 ! S-adenosyl-L-methionine transmembrane transport
 +is_a: GO:0006855 {is_inferred="true"} ! drug transmembrane transport
 is_a: GO:0015805 {is_inferred="true"} ! S-adenosyl-L-methionine transport
 -is_a: GO:0055085 {is_inferred="true"} ! transmembrane transport

[Term]
 id: GO:1901963 ! regulation of cell proliferation involved in outflow tract
 morphogenesis
 @@ -72833,8 +80910,11 @@

[Term]
 id: GO:1901986 ! response to ketamine
 +is_a: GO:0009410 {is_inferred="true"} ! response to xenobiotic stimulus
 +is_a: GO:0009636 {is_inferred="true"} ! response to toxic substance
 is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound
 is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
 +is_a: GO:0072347 {is_inferred="true"} ! response to anesthetic
 is_a: GO:1901654 {is_inferred="true"} ! response to ketone

[Term]
 @@ -73012,16 +81092,19 @@
 id: GO:1902022 ! L-lysine transport
 is_a: GO:0006812 {is_inferred="true"} ! cation transport
 is_a: GO:0015807 {is_inferred="true"} ! L-amino acid transport

+is_a: GO:0015893 {is_inferred="true"} ! drug transport

[Term]

id: GO:1902023 ! L-arginine transport

is_a: GO:0006812 {is_inferred="true"} ! cation transport

is_a: GO:0015807 {is_inferred="true"} ! L-amino acid transport

+is_a: GO:0015893 {is_inferred="true"} ! drug transport

[Term]

id: GO:1902024 ! L-histidine transport

is_a: GO:0006812 {is_inferred="true"} ! cation transport

is_a: GO:0015807 {is_inferred="true"} ! L-amino acid transport

+is_a: GO:0015893 {is_inferred="true"} ! drug transport

is_a: GO:0045117 {is_inferred="true"} ! azole transport

[Term]

@@ -73136,6 +81219,7 @@

[Term]

id: GO:1902048 ! neosartoricin metabolic process

+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process

is_a: GO:0018958 {is_inferred="true"} ! phenol-containing compound metabolic process

is_a: GO:0030638 {is_inferred="true"} ! polyketide metabolic process

is_a: GO:0042180 {is_inferred="true"} ! cellular ketone metabolic process

@@ -73147,6 +81231,7 @@

is_a: GO:0019336 {is_inferred="true"} ! phenol-containing compound catabolic process

is_a: GO:0030640 {is_inferred="true"} ! polyketide catabolic process

is_a: GO:0042182 {is_inferred="true"} ! ketone catabolic process

+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process

is_a: GO:0046164 {is_inferred="true"} ! alcohol catabolic process

is_a: GO:1902048 {is_inferred="true"} ! neosartoricin metabolic process

@@ -73191,12 +81276,14 @@

is_a: GO:0008202 {is_inferred="true"} ! steroid metabolic process

is_a: GO:0032787 {is_inferred="true"} ! monocarboxylic acid metabolic process

is_a: GO:0042180 {is_inferred="true"} ! cellular ketone metabolic process

+is_a: GO:0042445 {is_inferred="true"} ! hormone metabolic process

[Term]

id: GO:1902057 ! (25S)-Delta(4)-dafachronate metabolic process

is_a: GO:0008202 {is_inferred="true"} ! steroid metabolic process

is_a: GO:0032787 {is_inferred="true"} ! monocarboxylic acid metabolic process

is_a: GO:0042180 {is_inferred="true"} ! cellular ketone metabolic process

+is_a: GO:0042445 {is_inferred="true"} ! hormone metabolic process

[Term]

id: GO:1902058 ! regulation of sporocarp development involved in sexual reproduction

@@ -73237,10 +81324,13 @@

[Term]

id: GO:1902065 ! response to L-glutamate

+is_a: GO:0007584 {is_inferred="true"} ! response to nutrient

+is_a: GO:0042493 {is_inferred="true"} ! response to drug

is_a: GO:0043200 {is_inferred="true"} ! response to amino acid

[Term]

id: GO:1902066 ! regulation of cell wall pectin metabolic process

+is_a: GO:0031323 {is_inferred="true"} ! regulation of cellular metabolic process

is_a: GO:0032881 {is_inferred="true"} ! regulation of polysaccharide metabolic process

is_a: GO:0051128 {is_inferred="true"} ! regulation of cellular component organization

is_a: GO:1903338 {is_inferred="true"} ! regulation of cell wall organization or

biogenesis

@@ -73333,11 +81423,13 @@

[Term]

id: GO:1902084 ! fumagillin metabolic process

+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process

is_a: GO:0019752 {is_inferred="true"} ! carboxylic acid metabolic process
 is_a: GO:0097176 {is_inferred="true"} ! epoxide metabolic process

[Term]

id: GO:1902085 ! fumagillin catabolic process
 +is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
 is_a: GO:0046395 {is_inferred="true"} ! carboxylic acid catabolic process
 is_a: GO:0046700 {is_inferred="true"} ! heterocycle catabolic process
 is_a: GO:1901361 {is_inferred="true"} ! organic cyclic compound catabolic process
 @@ -73404,6 +81496,8 @@

[Term]

id: GO:1902098 ! calcitriol binding
 +is_a: GO:0008144 {is_inferred="true"} ! drug binding
 +is_a: GO:0042562 {is_inferred="true"} ! hormone binding
 is_a: GO:1902271 {is_inferred="true"} ! D3 vitamins binding

[Term]

@@ -73489,6 +81583,7 @@

[Term]

id: GO:1902118 ! calcidiol binding
 +is_a: GO:0008144 {is_inferred="true"} ! drug binding
 is_a: GO:1902271 {is_inferred="true"} ! D3 vitamins binding

[Term]

@@ -73505,10 +81600,12 @@

[Term]

id: GO:1902121 ! lithocholic acid binding
 +is_a: GO:0005496 {is_inferred="true"} ! steroid binding
 is_a: GO:0032052 {is_inferred="true"} ! bile acid binding

[Term]

id: GO:1902122 ! chenodeoxycholic acid binding
 +is_a: GO:0005496 {is_inferred="true"} ! steroid binding
 is_a: GO:0032052 {is_inferred="true"} ! bile acid binding

[Term]

@@ -73522,14 +81619,18 @@

[Term]

id: GO:1902124 ! (+)-pinoresinol metabolic process
 is_a: GO:0009806 {is_inferred="true"} ! lignan metabolic process
 +is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
 is_a: GO:0018904 {is_inferred="true"} ! ether metabolic process
 is_a: GO:0018958 {is_inferred="true"} ! phenol-containing compound metabolic process
 +is_a: GO:0042445 {is_inferred="true"} ! hormone metabolic process
 is_a: GO:0042537 {is_inferred="true"} ! benzene-containing compound metabolic process
 is_a: GO:0046483 {is_inferred="true"} ! heterocycle metabolic process

[Term]

id: GO:1902125 ! (+)-pinoresinol catabolic process
 is_a: GO:0019336 {is_inferred="true"} ! phenol-containing compound catabolic process
 +is_a: GO:0042447 {is_inferred="true"} ! hormone catabolic process
 +is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
 is_a: GO:0046273 {is_inferred="true"} ! lignan catabolic process
 is_a: GO:0046700 {is_inferred="true"} ! heterocycle catabolic process
 is_a: GO:1901502 {is_inferred="true"} ! ether catabolic process
 @@ -73539,6 +81640,7 @@

id: GO:1902126 ! (+)-pinoresinol biosynthetic process
 is_a: GO:0009807 {is_inferred="true"} ! lignan biosynthetic process
 is_a: GO:0018130 {is_inferred="true"} ! heterocycle biosynthetic process
 +is_a: GO:0042446 {is_inferred="true"} ! hormone biosynthetic process
 is_a: GO:0046189 {is_inferred="true"} ! phenol-containing compound biosynthetic process
 is_a: GO:1901503 {is_inferred="true"} ! ether biosynthetic process
 is_a: GO:1902124 {is_inferred="true"} ! (+)-pinoresinol metabolic process

@@ -73612,13 +81714,17 @@

[Term]

id: GO:1902136 ! (-)-secoisolariciresinol metabolic process
 is_a: GO:0009806 {is_inferred="true"} ! lignan metabolic process
 +is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
 is_a: GO:0018958 {is_inferred="true"} ! phenol-containing compound metabolic process
 is_a: GO:0034311 {is_inferred="true"} ! diol metabolic process
 +is_a: GO:0042445 {is_inferred="true"} ! hormone metabolic process

[Term]

id: GO:1902137 ! (-)-secoisolariciresinol catabolic process
 is_a: GO:0019336 {is_inferred="true"} ! phenol-containing compound catabolic process
 is_a: GO:0034313 {is_inferred="true"} ! diol catabolic process
 +is_a: GO:0042447 {is_inferred="true"} ! hormone catabolic process
 +is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
 is_a: GO:0046273 {is_inferred="true"} ! lignan catabolic process
 is_a: GO:1902136 {is_inferred="true"} ! (-)-secoisolariciresinol metabolic process

@@ -73626,6 +81732,7 @@

id: GO:1902138 ! (-)-secoisolariciresinol biosynthetic process
 is_a: GO:0009807 {is_inferred="true"} ! lignan biosynthetic process
 is_a: GO:0034312 {is_inferred="true"} ! diol biosynthetic process
 +is_a: GO:0042446 {is_inferred="true"} ! hormone biosynthetic process
 is_a: GO:0046189 {is_inferred="true"} ! phenol-containing compound biosynthetic process
 is_a: GO:1902136 {is_inferred="true"} ! (-)-secoisolariciresinol metabolic process

@@ -73789,9 +81896,11 @@

[Term]

id: GO:1902179 ! verruculogen metabolic process
 is_a: GO:0006725 {is_inferred="true"} ! cellular aromatic compound metabolic process
 +is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
 is_a: GO:0018904 {is_inferred="true"} ! ether metabolic process
 is_a: GO:0034311 {is_inferred="true"} ! diol metabolic process
 is_a: GO:0035834 {is_inferred="true"} ! indole alkaloid metabolic process
 +is_a: GO:0043385 {is_inferred="true"} ! mycotoxin metabolic process
 is_a: GO:0046483 {is_inferred="true"} ! heterocycle metabolic process
 is_a: GO:1901360 {is_inferred="true"} ! organic cyclic compound metabolic process

@@ -73800,7 +81909,10 @@

is_a: GO:0009822 {is_inferred="true"} ! alkaloid catabolic process
 is_a: GO:0019439 {is_inferred="true"} ! aromatic compound catabolic process
 is_a: GO:0034313 {is_inferred="true"} ! diol catabolic process
 +is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
 +is_a: GO:0043387 {is_inferred="true"} ! mycotoxin catabolic process
 is_a: GO:0046700 {is_inferred="true"} ! heterocycle catabolic process
 +is_a: GO:0051410 {is_inferred="true"} ! detoxification of nitrogen compound
 is_a: GO:1901361 {is_inferred="true"} ! organic cyclic compound catabolic process
 is_a: GO:1901502 {is_inferred="true"} ! ether catabolic process
 is_a: GO:1902179 {is_inferred="true"} ! verruculogen metabolic process

@@ -73811,6 +81923,7 @@

is_a: GO:0019438 {is_inferred="true"} ! aromatic compound biosynthetic process
 is_a: GO:0034312 {is_inferred="true"} ! diol biosynthetic process
 is_a: GO:0035835 {is_inferred="true"} ! indole alkaloid biosynthetic process
 +is_a: GO:0043386 {is_inferred="true"} ! mycotoxin biosynthetic process
 is_a: GO:1901362 {is_inferred="true"} ! organic cyclic compound biosynthetic process
 is_a: GO:1901503 {is_inferred="true"} ! ether biosynthetic process
 is_a: GO:1902179 {is_inferred="true"} ! verruculogen metabolic process

@@ -74019,6 +82132,7 @@

[Term]

id: GO:1902224 ! ketone body metabolic process
 +is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
 is_a: GO:1901568 {is_inferred="true"} ! fatty acid derivative metabolic process

[Term]

@@ -74255,6 +82369,8 @@

[Term]

id: GO:1902270 ! (R)-carnitine transmembrane transport
 +is_a: GO:0006855 {is_inferred="true"} ! drug transmembrane transport
 +is_a: GO:0035461 {is_inferred="true"} ! vitamin transmembrane transport
 is_a: GO:1900749 {is_inferred="true"} ! (R)-carnitine transport
 is_a: GO:1902603 {is_inferred="true"} ! carnitine transmembrane transport

@@ -74265,16 +82381,19 @@

[Term]

id: GO:1902272 ! regulation of (R)-carnitine transmembrane transport
 is_a: GO:1904062 {is_inferred="true"} ! regulation of cation transmembrane transport
 +is_a: GO:2001023 {is_inferred="true"} ! regulation of response to drug

[Term]

id: GO:1902273 ! negative regulation of (R)-carnitine transmembrane transport
 is_a: GO:1902272 {is_inferred="true"} ! regulation of (R)-carnitine transmembrane transport
 is_a: GO:1904063 {is_inferred="true"} ! negative regulation of cation transmembrane transport
 +is_a: GO:2001024 {is_inferred="true"} ! negative regulation of response to drug

[Term]

id: GO:1902274 ! positive regulation of (R)-carnitine transmembrane transport
 is_a: GO:1902272 {is_inferred="true"} ! regulation of (R)-carnitine transmembrane transport
 is_a: GO:1904064 {is_inferred="true"} ! positive regulation of cation transmembrane transport
 +is_a: GO:2001025 {is_inferred="true"} ! positive regulation of response to drug

[Term]

id: GO:1902275 ! regulation of chromatin organization
 @@ -74613,12 +82732,14 @@

[Term]

id: GO:1902347 ! response to strigolactone
 +is_a: GO:0009725 {is_inferred="true"} ! response to hormone
 is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
 is_a: GO:0033993 {is_inferred="true"} ! response to lipid
 is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]

id: GO:1902348 ! cellular response to strigolactone
 +is_a: GO:0032870 {is_inferred="true"} ! cellular response to hormone stimulus
 is_a: GO:0071396 {is_inferred="true"} ! cellular response to lipid
 is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
 is_a: GO:1901701 {is_inferred="true"} ! cellular response to oxygen-containing compound
 @@ -74628,17 +82749,22 @@

[Term]

id: GO:1902349 ! response to chloroquine
 is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound
 is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
 +is_a: GO:0042493 {is_inferred="true"} ! response to drug

[Term]

id: GO:1902350 ! cellular response to chloroquine
 +is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
 is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
 is_a: GO:0071417 {is_inferred="true"} ! cellular response to organonitrogen compound
 is_a: GO:1902349 {is_inferred="true"} ! response to chloroquine

[Term]

id: GO:1902351 ! response to imidacloprid
 +is_a: GO:0009410 {is_inferred="true"} ! response to xenobiotic stimulus
 is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound
 is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
 +is_a: GO:0017085 {is_inferred="true"} ! response to insecticide

+is_a: GO:0042493 {is_inferred="true"} ! response to drug

[Term]

id: GO:1902352 ! negative regulation of filamentous growth of a population of unicellular organisms in response to starvation by negative regulation of transcription from RNA polymerase II promoter
@@ -74786,6 +82912,7 @@

[Term]

id: GO:1902384 ! glycyrrhettinate metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:0019742 {is_inferred="true"} ! pentacyclic triterpenoid metabolic process
is_a: GO:0032787 {is_inferred="true"} ! monocarboxylic acid metabolic process
is_a: GO:0042180 {is_inferred="true"} ! cellular ketone metabolic process
@@ -74795,6 +82922,7 @@

id: GO:1902385 ! glycyrrhettinate catabolic process
is_a: GO:0019741 {is_inferred="true"} ! pentacyclic triterpenoid catabolic process
is_a: GO:0042182 {is_inferred="true"} ! ketone catabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
is_a: GO:0072329 {is_inferred="true"} ! monocarboxylic acid catabolic process
is_a: GO:1901616 {is_inferred="true"} ! organic hydroxy compound catabolic process
is_a: GO:1902384 {is_inferred="true"} ! glycyrrhettinate metabolic process
@@ -75075,6 +83203,8 @@

[Term]

id: GO:1902444 ! riboflavin binding
+is_a: GO:0008144 {is_inferred="true"} ! drug binding
+is_a: GO:0019842 {is_inferred="true"} ! vitamin binding
is_a: GO:0043168 {is_inferred="true"} ! anion binding
is_a: GO:0097159 {is_inferred="true"} ! organic cyclic compound binding
is_a: GO:1901363 {is_inferred="true"} ! heterocyclic compound binding
@@ -75262,6 +83392,7 @@

[Term]

id: GO:1902497 ! iron-sulfur cluster transport
+is_a: GO:0051181 {is_inferred="true"} ! cofactor transport
is_a: GO:1901678 {is_inferred="true"} ! iron coordination entity transport

[Term]

@@ -75366,11 +83497,13 @@

[Term]

id: GO:1902518 ! response to cyclophosphamide
+is_a: GO:0009410 {is_inferred="true"} ! response to xenobiotic stimulus
is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound
+is_a: GO:0097327 {is_inferred="true"} ! response to antineoplastic agent

[Term]

id: GO:1902519 ! response to docetaxel trihydrate
-is_a: GO:0042221 {is_inferred="true"} ! response to chemical
+is_a: GO:0097327 {is_inferred="true"} ! response to antineoplastic agent

[Term]

id: GO:1902520 ! response to doxorubicin
@@ -75382,11 +83515,13 @@

[Term]

id: GO:1902521 ! response to etoposide
is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
+is_a: GO:0097327 {is_inferred="true"} ! response to antineoplastic agent
is_a: GO:1904631 {is_inferred="true"} ! response to glucoside

[Term]

id: GO:1902522 ! response to 4'-epidoxorubicin
is_a: GO:0060359 {is_inferred="true"} ! response to ammonium ion
+is_a: GO:0097327 {is_inferred="true"} ! response to antineoplastic agent
is_a: GO:1901654 {is_inferred="true"} ! response to ketone
is_a: GO:1903416 {is_inferred="true"} ! response to glycoside

@@ -75679,12 +83814,13 @@

[Term]

id: GO:1902598 ! creatine transmembrane transport

is_a: GO:0003333 {is_inferred="true"} ! amino acid transmembrane transport

+is_a: GO:0006855 {is_inferred="true"} ! drug transmembrane transport

is_a: GO:0015881 {is_inferred="true"} ! creatine transport

[Term]

id: GO:1902599 ! sulfathiazole transmembrane transport

+is_a: GO:0006855 {is_inferred="true"} ! drug transmembrane transport

is_a: GO:0015906 {is_inferred="true"} ! sulfathiazole transport

-is_a: GO:0055085 {is_inferred="true"} ! transmembrane transport

[Term]

id: GO:1902600 ! hydrogen ion transmembrane transport

@@ -76028,7 +84164,7 @@

[Term]

id: GO:1902670 ! carbon dioxide binding

-is_a: GO:0005488 {is_inferred="true"} ! binding

+is_a: GO:0008144 {is_inferred="true"} ! drug binding

[Term]

id: GO:1902671 ! left anterior basal body

@@ -76212,10 +84348,13 @@

[Term]

id: GO:1902708 ! response to plumbagin

is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound

+is_a: GO:0061476 {is_inferred="true"} ! response to anticoagulant

+is_a: GO:0097327 {is_inferred="true"} ! response to antineoplastic agent

is_a: GO:1901654 {is_inferred="true"} ! response to ketone

[Term]

id: GO:1902709 ! cellular response to plumbagin

+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug

is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound

is_a: GO:1901655 {is_inferred="true"} ! cellular response to ketone

is_a: GO:1902708 {is_inferred="true"} ! response to plumbagin

@@ -76230,6 +84369,7 @@

[Term]

id: GO:1902712 ! G-protein coupled GABA receptor complex

+is_a: GO:0098878 {is_inferred="true"} ! neurotransmitter receptor complex

is_a: GO:1902710 {is_inferred="true"} ! GABA receptor complex

[Term]

@@ -76491,11 +84631,13 @@

[Term]

id: GO:1902776 ! 6-sulfoquinovose(1-) metabolic process

+is_a: GO:0006082 {is_inferred="true"} ! organic acid metabolic process

is_a: GO:0006790 {is_inferred="true"} ! sulfur compound metabolic process

is_a: GO:1901135 {is_inferred="true"} ! carbohydrate derivative metabolic process

[Term]

id: GO:1902777 ! 6-sulfoquinovose(1-) catabolic process

+is_a: GO:0016054 {is_inferred="true"} ! organic acid catabolic process

is_a: GO:0044273 {is_inferred="true"} ! sulfur compound catabolic process

is_a: GO:1901136 {is_inferred="true"} ! carbohydrate derivative catabolic process

is_a: GO:1902776 {is_inferred="true"} ! 6-sulfoquinovose(1-) metabolic process

@@ -76547,10 +84689,12 @@

[Term]

id: GO:1902788 ! response to isooctane

+is_a: GO:0009636 {is_inferred="true"} ! response to toxic substance

is_a: GO:1902778 {is_inferred="true"} ! response to alkane

[Term]

id: GO:1902789 ! cellular response to isooctane
+is_a: GO:0097237 {is_inferred="true"} ! cellular response to toxic substance
is_a: GO:1902779 {is_inferred="true"} ! cellular response to alkane
is_a: GO:1902788 {is_inferred="true"} ! response to isooctane

@@ -77920,31 +86064,35 @@

[Term]

id: GO:1903088 ! 5-amino-1-ribofuranosylimidazole-4-carboxamide transmembrane transport
+is_a: GO:0006855 {is_inferred="true"} ! drug transmembrane transport
is_a: GO:0042886 {is_inferred="true"} ! amide transport
is_a: GO:0045117 {is_inferred="true"} ! azole transport
-is_a: GO:0055085 {is_inferred="true"} ! transmembrane transport
is_a: GO:1901264 {is_inferred="true"} ! carbohydrate derivative transport

[Term]

id: GO:1903089 ! 5-amino-1-ribofuranosylimidazole-4-carboxamide transmembrane transporter activity
+is_a: GO:0015238 {is_inferred="true"} ! drug transmembrane transporter activity
is_a: GO:0042887 {is_inferred="true"} ! amide transmembrane transporter activity
is_a: GO:1901474 {is_inferred="true"} ! azole transmembrane transporter activity
is_a: GO:1901505 {is_inferred="true"} ! carbohydrate derivative transmembrane transporter activity

[Term]

id: GO:1903090 ! pyridoxal transmembrane transport
+is_a: GO:0006855 {is_inferred="true"} ! drug transmembrane transport
is_a: GO:0031920 {is_inferred="true"} ! pyridoxal transport
is_a: GO:0035461 {is_inferred="true"} ! vitamin transmembrane transport
is_a: GO:0098655 {is_inferred="true"} ! cation transmembrane transport

[Term]

id: GO:1903091 ! pyridoxamine transmembrane transport
+is_a: GO:0006855 {is_inferred="true"} ! drug transmembrane transport
is_a: GO:0031922 {is_inferred="true"} ! pyridoxamine transport
is_a: GO:0035461 {is_inferred="true"} ! vitamin transmembrane transport
is_a: GO:0072488 {is_inferred="true"} ! ammonium transmembrane transport

[Term]

id: GO:1903092 ! pyridoxine transmembrane transport
+is_a: GO:0006855 {is_inferred="true"} ! drug transmembrane transport
is_a: GO:0031923 {is_inferred="true"} ! pyridoxine transport
is_a: GO:0035461 {is_inferred="true"} ! vitamin transmembrane transport

@@ -78207,9 +86355,11 @@

[Term]

id: GO:1903165 ! response to polycyclic arene
is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
+is_a: GO:0042493 {is_inferred="true"} ! response to drug

[Term]

id: GO:1903166 ! cellular response to polycyclic arene
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
is_a: GO:1903165 {is_inferred="true"} ! response to polycyclic arene

@@ -78304,6 +86454,7 @@

[Term]

id: GO:1903184 ! L-dopa metabolic process
is_a: GO:0006575 {is_inferred="true"} ! cellular modified amino acid metabolic process
+is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
is_a: GO:1901605 {is_inferred="true"} ! alpha-amino acid metabolic process

[Term]

@@ -78412,12 +86563,14 @@

id: GO:1903205 ! regulation of hydrogen peroxide-induced cell death
 is_a: GO:1901031 {is_inferred="true"} ! regulation of response to reactive oxygen species
 is_a: GO:1903201 {is_inferred="true"} ! regulation of oxidative stress-induced cell death
 +is_a: GO:2001038 {is_inferred="true"} ! regulation of cellular response to drug

[Term]

id: GO:1903206 ! negative regulation of hydrogen peroxide-induced cell death
 is_a: GO:1901032 {is_inferred="true"} ! negative regulation of response to reactive oxygen species
 is_a: GO:1903202 {is_inferred="true"} ! negative regulation of oxidative stress-induced cell death
 is_a: GO:1903205 {is_inferred="true"} ! regulation of hydrogen peroxide-induced cell death
 +is_a: GO:2001039 {is_inferred="true"} ! negative regulation of cellular response to drug

[Term]

id: GO:1903207 ! regulation of hydrogen peroxide-induced neuron death
 @@ -78500,6 +86653,7 @@

[Term]

id: GO:1903222 ! quinolinic acid transmembrane transport
 is_a: GO:0006835 {is_inferred="true"} ! dicarboxylic acid transport
 +is_a: GO:0006855 {is_inferred="true"} ! drug transmembrane transport
 is_a: GO:0071705 {is_inferred="true"} ! nitrogen compound transport
 is_a: GO:1905039 {is_inferred="true"} ! carboxylic acid transmembrane transport

@@ -79099,17 +87253,20 @@

[Term]

id: GO:1903350 ! response to dopamine
 +is_a: GO:0042493 {is_inferred="true"} ! response to drug
 is_a: GO:0060359 {is_inferred="true"} ! response to ammonium ion
 is_a: GO:0071869 {is_inferred="true"} ! response to catecholamine

[Term]

id: GO:1903351 ! cellular response to dopamine
 +is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
 is_a: GO:0071242 {is_inferred="true"} ! cellular response to ammonium ion
 is_a: GO:0071870 {is_inferred="true"} ! cellular response to catecholamine stimulus
 is_a: GO:1903350 {is_inferred="true"} ! response to dopamine

[Term]

id: GO:1903352 ! L-ornithine transmembrane transport
 +is_a: GO:0006855 {is_inferred="true"} ! drug transmembrane transport
 is_a: GO:0015822 {is_inferred="true"} ! ornithine transport
 is_a: GO:0098655 {is_inferred="true"} ! cation transmembrane transport
 is_a: GO:1902475 {is_inferred="true"} ! L-alpha-amino acid transmembrane transport
 @@ -79357,12 +87514,14 @@

[Term]

id: GO:1903400 ! L-arginine transmembrane transport
 +is_a: GO:0006855 {is_inferred="true"} ! drug transmembrane transport
 is_a: GO:0098655 {is_inferred="true"} ! cation transmembrane transport
 is_a: GO:1902023 {is_inferred="true"} ! L-arginine transport
 is_a: GO:1902475 {is_inferred="true"} ! L-alpha-amino acid transmembrane transport

[Term]

id: GO:1903401 ! L-lysine transmembrane transport
 +is_a: GO:0006855 {is_inferred="true"} ! drug transmembrane transport
 is_a: GO:0098655 {is_inferred="true"} ! cation transmembrane transport
 is_a: GO:1902022 {is_inferred="true"} ! L-lysine transport
 is_a: GO:1902475 {is_inferred="true"} ! L-alpha-amino acid transmembrane transport
 @@ -79577,6 +87736,7 @@

id: GO:1903449 ! androst-4-ene-3,17-dione biosynthetic process

is_a: GO:0006694 {is_inferred="true"} ! steroid biosynthetic process
is_a: GO:0042181 {is_inferred="true"} ! ketone biosynthetic process
+is_a: GO:0042446 {is_inferred="true"} ! hormone biosynthetic process

[Term]

id: GO:1903450 ! regulation of G1 to G0 transition
@@ -79599,18 +87759,19 @@

[Term]

id: GO:1903454 ! regulation of androst-4-ene-3,17-dione biosynthetic process
is_a: GO:0010566 {is_inferred="true"} ! regulation of ketone biosynthetic process
+is_a: GO:0046885 {is_inferred="true"} ! regulation of hormone biosynthetic process
is_a: GO:0050810 {is_inferred="true"} ! regulation of steroid biosynthetic process

[Term]

id: GO:1903455 ! negative regulation of androst-4-ene-3,17-dione biosynthetic process
is_a: GO:0010894 {is_inferred="true"} ! negative regulation of steroid biosynthetic process
-is_a: GO:0031327 {is_inferred="true"} ! negative regulation of cellular biosynthetic process
+is_a: GO:0032353 {is_inferred="true"} ! negative regulation of hormone biosynthetic process
is_a: GO:1903454 {is_inferred="true"} ! regulation of androst-4-ene-3,17-dione biosynthetic process

[Term]

id: GO:1903456 ! positive regulation of androst-4-ene-3,17-dione biosynthetic process
is_a: GO:0010893 {is_inferred="true"} ! positive regulation of steroid biosynthetic process
-is_a: GO:0031328 {is_inferred="true"} ! positive regulation of cellular biosynthetic process
+is_a: GO:0046886 {is_inferred="true"} ! positive regulation of hormone biosynthetic process
is_a: GO:1903454 {is_inferred="true"} ! regulation of androst-4-ene-3,17-dione biosynthetic process

[Term]

@@ -79773,16 +87934,21 @@
id: GO:1903492 ! response to acetylsalicylate
is_a: GO:0001101 {is_inferred="true"} ! response to acid chemical
is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
+is_a: GO:0061476 {is_inferred="true"} ! response to anticoagulant
+is_a: GO:0061478 {is_inferred="true"} ! response to platelet aggregation inhibitor
is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]

id: GO:1903493 ! response to clopidogrel
is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound
is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
+is_a: GO:0061476 {is_inferred="true"} ! response to anticoagulant
+is_a: GO:0061478 {is_inferred="true"} ! response to platelet aggregation inhibitor
is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]

id: GO:1903494 ! response to dehydroepiandrosterone
+is_a: GO:0009725 {is_inferred="true"} ! response to hormone
is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
is_a: GO:0033993 {is_inferred="true"} ! response to lipid
is_a: GO:0097305 {is_inferred="true"} ! response to alcohol
@@ -79790,6 +87956,7 @@

[Term]

id: GO:1903495 ! cellular response to dehydroepiandrosterone
+is_a: GO:0032870 {is_inferred="true"} ! cellular response to hormone stimulus
is_a: GO:0071396 {is_inferred="true"} ! cellular response to lipid
is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
is_a: GO:0097306 {is_inferred="true"} ! cellular response to alcohol
@@ -80157,10 +88324,14 @@

[Term]

id: GO:1903576 ! response to L-arginine

+is_a: GO:0007584 {is_inferred="true"} ! response to nutrient

+is_a: GO:0042493 {is_inferred="true"} ! response to drug

is_a: GO:0043200 {is_inferred="true"} ! response to amino acid

[Term]

id: GO:1903577 ! cellular response to L-arginine

+is_a: GO:0031670 {is_inferred="true"} ! cellular response to nutrient

+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug

is_a: GO:0071230 {is_inferred="true"} ! cellular response to amino acid stimulus

is_a: GO:1903576 {is_inferred="true"} ! response to L-arginine

@@ -80256,6 +88427,7 @@

is_a: GO:0046883 {is_inferred="true"} ! regulation of hormone secretion

is_a: GO:0050727 {is_inferred="true"} ! regulation of inflammatory response

is_a: GO:0051239 {is_inferred="true"} ! regulation of multicellular organismal process

+is_a: GO:0051588 {is_inferred="true"} ! regulation of neurotransmitter transport

[Term]

id: GO:1903594 ! negative regulation of histamine secretion by mast cell

@@ -80264,6 +88436,7 @@

is_a: GO:0046888 {is_inferred="true"} ! negative regulation of hormone secretion

is_a: GO:0050728 {is_inferred="true"} ! negative regulation of inflammatory response

is_a: GO:0051241 {is_inferred="true"} ! negative regulation of multicellular

organismal process

+is_a: GO:0051589 {is_inferred="true"} ! negative regulation of neurotransmitter

transport

is_a: GO:1903593 {is_inferred="true"} ! regulation of histamine secretion by mast cell

[Term]

@@ -80273,6 +88446,7 @@

is_a: GO:0046887 {is_inferred="true"} ! positive regulation of hormone secretion

is_a: GO:0050729 {is_inferred="true"} ! positive regulation of inflammatory response

is_a: GO:0051240 {is_inferred="true"} ! positive regulation of multicellular

organismal process

+is_a: GO:0051590 {is_inferred="true"} ! positive regulation of neurotransmitter

transport

is_a: GO:1903593 {is_inferred="true"} ! regulation of histamine secretion by mast cell

[Term]

@@ -80831,6 +89005,7 @@

[Term]

id: GO:1903710 ! spermine transmembrane transport

is_a: GO:0000296 {is_inferred="true"} ! spermine transport

+is_a: GO:0006855 {is_inferred="true"} ! drug transmembrane transport

is_a: GO:0072488 {is_inferred="true"} ! ammonium transmembrane transport

is_a: GO:1902047 {is_inferred="true"} ! polyamine transmembrane transport

@@ -80869,11 +89044,13 @@

[Term]

id: GO:1903717 ! response to ammonia

+is_a: GO:0009636 {is_inferred="true"} ! response to toxic substance

is_a: GO:0010035 {is_inferred="true"} ! response to inorganic substance

is_a: GO:1901698 {is_inferred="true"} ! response to nitrogen compound

[Term]

id: GO:1903718 ! cellular response to ammonia

+is_a: GO:0097237 {is_inferred="true"} ! cellular response to toxic substance

is_a: GO:1901699 {is_inferred="true"} ! cellular response to nitrogen compound

is_a: GO:1903717 {is_inferred="true"} ! response to ammonia

@@ -81164,6 +89341,7 @@

[Term]

```

id: GO:1903785 ! L-valine transmembrane transport
+is_a: GO:0006855 {is_inferred="true"} ! drug transmembrane transport
is_a: GO:0015829 {is_inferred="true"} ! valine transport
is_a: GO:0098655 {is_inferred="true"} ! cation transmembrane transport
is_a: GO:1902475 {is_inferred="true"} ! L-alpha-amino acid transmembrane transport
@@ -81173,12 +89351,14 @@
is_a: GO:0031326 {is_inferred="true"} ! regulation of cellular biosynthetic process
is_a: GO:0034248 {is_inferred="true"} ! regulation of cellular amide metabolic process
is_a: GO:0042762 {is_inferred="true"} ! regulation of sulfur metabolic process
+is_a: GO:0051193 {is_inferred="true"} ! regulation of cofactor metabolic process

```

```

[Term]
id: GO:1903787 ! negative regulation of glutathione biosynthetic process
is_a: GO:0031327 {is_inferred="true"} ! negative regulation of cellular biosynthetic
process
is_a: GO:0034249 {is_inferred="true"} ! negative regulation of cellular amide
metabolic process
is_a: GO:0051175 {is_inferred="true"} ! negative regulation of sulfur metabolic
process
+is_a: GO:0051195 {is_inferred="true"} ! negative regulation of cofactor metabolic
process
is_a: GO:1903786 {is_inferred="true"} ! regulation of glutathione biosynthetic process

```

```

[Term]
@@ -81186,6 +89366,7 @@
is_a: GO:0031328 {is_inferred="true"} ! positive regulation of cellular biosynthetic
process
is_a: GO:0034250 {is_inferred="true"} ! positive regulation of cellular amide
metabolic process
is_a: GO:0051176 {is_inferred="true"} ! positive regulation of sulfur metabolic
process
+is_a: GO:0051194 {is_inferred="true"} ! positive regulation of cofactor metabolic
process
is_a: GO:1903786 {is_inferred="true"} ! regulation of glutathione biosynthetic process

```

```

[Term]
@@ -81201,11 +89382,13 @@

```

```

[Term]
id: GO:1903791 ! uracil transmembrane transport
+is_a: GO:0006855 {is_inferred="true"} ! drug transmembrane transport
is_a: GO:0015857 {is_inferred="true"} ! uracil transport
is_a: GO:1904082 {is_inferred="true"} ! pyrimidine nucleobase transmembrane transport

```

```

[Term]
id: GO:1903794 ! cortisol binding
+is_a: GO:0008144 {is_inferred="true"} ! drug binding
is_a: GO:1990239 {is_inferred="true"} ! steroid hormone binding

```

```

[Term]
@@ -81255,6 +89438,7 @@

```

```

[Term]
id: GO:1903803 ! L-glutamine import across plasma membrane
+is_a: GO:0006855 {is_inferred="true"} ! drug transmembrane transport
is_a: GO:0036229 {is_inferred="true"} ! L-glutamine import
is_a: GO:0089718 {is_inferred="true"} ! amino acid import across plasma membrane
is_a: GO:0098655 {is_inferred="true"} ! cation transmembrane transport
@@ -81280,6 +89464,7 @@

```

```

[Term]
id: GO:1903807 ! L-threonine import across plasma membrane
+is_a: GO:0006855 {is_inferred="true"} ! drug transmembrane transport
is_a: GO:0036231 {is_inferred="true"} ! L-threonine import
is_a: GO:0089718 {is_inferred="true"} ! amino acid import across plasma membrane
is_a: GO:0098655 {is_inferred="true"} ! cation transmembrane transport
@@ -81287,6 +89472,7 @@

```


[Term]
id: GO:1903808 ! L-tyrosine import across plasma membrane
+is_a: GO:0006855 {is_inferred="true"} ! drug transmembrane transport
is_a: GO:0036232 {is_inferred="true"} ! L-tyrosine import
is_a: GO:0089718 {is_inferred="true"} ! amino acid import across plasma membrane
is_a: GO:0098655 {is_inferred="true"} ! cation transmembrane transport
@@ -81300,6 +89486,7 @@

[Term]
id: GO:1903811 ! L-asparagine import across plasma membrane
+is_a: GO:0006855 {is_inferred="true"} ! drug transmembrane transport
is_a: GO:0043092 {is_inferred="true"} ! L-amino acid import
is_a: GO:0089718 {is_inferred="true"} ! amino acid import across plasma membrane
is_a: GO:0090469 {is_inferred="true"} ! asparagine import
@@ -81614,6 +89801,7 @@

[Term]
id: GO:1903880 ! 17alpha-hydroxyprogesterone binding
is_a: GO:0005496 {is_inferred="true"} ! steroid binding
+is_a: GO:0042562 {is_inferred="true"} ! hormone binding

[Term]
id: GO:1903881 ! regulation of interleukin-17-mediated signaling pathway
@@ -81826,26 +90014,35 @@

[Term]
id: GO:1903924 ! estradiol binding
is_a: GO:0005496 {is_inferred="true"} ! steroid binding
+is_a: GO:0099130 {is_inferred="true"} ! estrogen binding

[Term]
id: GO:1903925 ! response to bisphenol A
+is_a: GO:0009410 {is_inferred="true"} ! response to xenobiotic stimulus
+is_a: GO:0009725 {is_inferred="true"} ! response to hormone
is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
+is_a: GO:0042493 {is_inferred="true"} ! response to drug
is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]
id: GO:1903926 ! cellular response to bisphenol A
+is_a: GO:0032870 {is_inferred="true"} ! cellular response to hormone stimulus
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
+is_a: GO:0071466 {is_inferred="true"} ! cellular response to xenobiotic stimulus
is_a: GO:1901701 {is_inferred="true"} ! cellular response to oxygen-containing compound
is_a: GO:1903925 {is_inferred="true"} ! response to bisphenol A

[Term]
id: GO:1903927 ! response to cyanide
is_a: GO:0001101 {is_inferred="true"} ! response to acid chemical
+is_a: GO:0009636 {is_inferred="true"} ! response to toxic substance
is_a: GO:0010033 {is_inferred="true"} ! response to organic substance

[Term]
id: GO:1903928 ! cellular response to cyanide
is_a: GO:0071229 {is_inferred="true"} ! cellular response to acid chemical
+is_a: GO:0097237 {is_inferred="true"} ! cellular response to toxic substance
is_a: GO:1903927 {is_inferred="true"} ! response to cyanide

[Term]
@@ -81885,24 +90082,31 @@

[Term]
id: GO:1903935 ! response to sodium arsenite
+is_a: GO:0009635 {is_inferred="true"} ! response to herbicide
is_a: GO:0010035 {is_inferred="true"} ! response to inorganic substance
+is_a: GO:0017085 {is_inferred="true"} ! response to insecticide

is_a: GO:0046685 {is_inferred="true"} ! response to arsenic-containing substance
 +is_a: GO:0097327 {is_inferred="true"} ! response to antineoplastic agent
 is_a: GO:1902074 {is_inferred="true"} ! response to salt

[Term]

id: GO:1903936 ! cellular response to sodium arsenite
 +is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
 is_a: GO:0071243 {is_inferred="true"} ! cellular response to arsenic-containing substance
 +is_a: GO:0097237 {is_inferred="true"} ! cellular response to toxic substance
 is_a: GO:1902075 {is_inferred="true"} ! cellular response to salt
 is_a: GO:1903935 {is_inferred="true"} ! response to sodium arsenite

[Term]

id: GO:1903937 ! response to acrylamide
 +is_a: GO:0009636 {is_inferred="true"} ! response to toxic substance
 is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound
 is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]

id: GO:1903938 ! cellular response to acrylamide
 is_a: GO:0071417 {is_inferred="true"} ! cellular response to organonitrogen compound
 +is_a: GO:0097237 {is_inferred="true"} ! cellular response to toxic substance
 is_a: GO:1901701 {is_inferred="true"} ! cellular response to oxygen-containing compound
 is_a: GO:1903937 {is_inferred="true"} ! response to acrylamide

@@ -82005,6 +90209,7 @@

[Term]

id: GO:1903956 ! response to latrunculin B
 +is_a: GO:0009636 {is_inferred="true"} ! response to toxic substance
 is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound
 is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
 is_a: GO:0097305 {is_inferred="true"} ! response to alcohol

@@ -82013,6 +90218,7 @@

id: GO:1903957 ! cellular response to latrunculin B
 is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
 is_a: GO:0071417 {is_inferred="true"} ! cellular response to organonitrogen compound
 +is_a: GO:0097237 {is_inferred="true"} ! cellular response to toxic substance
 is_a: GO:0097306 {is_inferred="true"} ! cellular response to alcohol
 is_a: GO:1903956 {is_inferred="true"} ! response to latrunculin B

@@ -82065,10 +90271,12 @@

[Term]

id: GO:1903967 ! response to micafungin
 is_a: GO:0033993 {is_inferred="true"} ! response to lipid
 +is_a: GO:0042493 {is_inferred="true"} ! response to drug
 is_a: GO:1901652 {is_inferred="true"} ! response to peptide

[Term]

id: GO:1903968 ! cellular response to micafungin
 +is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
 is_a: GO:0071396 {is_inferred="true"} ! cellular response to lipid
 is_a: GO:1901653 {is_inferred="true"} ! cellular response to peptide
 is_a: GO:1903967 {is_inferred="true"} ! response to micafungin

@@ -82138,6 +90346,7 @@

[Term]

id: GO:1903981 ! enterobactin binding
 is_a: GO:0043168 {is_inferred="true"} ! anion binding
 +is_a: GO:0048037 {is_inferred="true"} ! cofactor binding
 is_a: GO:0097159 {is_inferred="true"} ! organic cyclic compound binding
 is_a: GO:1901363 {is_inferred="true"} ! heterocyclic compound binding

@@ -82229,11 +90438,11 @@

[Term]

id: GO:1904010 ! response to Aroclor 1254
-is_a: GO:0042221 {is_inferred="true"} ! response to chemical
+is_a: GO:0009636 {is_inferred="true"} ! response to toxic substance

[Term]

id: GO:1904011 ! cellular response to Aroclor 1254
-is_a: GO:0070887 {is_inferred="true"} ! cellular response to chemical stimulus
+is_a: GO:0097237 {is_inferred="true"} ! cellular response to toxic substance
is_a: GO:1904010 {is_inferred="true"} ! response to Aroclor 1254

[Term]

@@ -82415,6 +90624,8 @@

[Term]

id: GO:1904047 ! S-adenosyl-L-methionine binding
+is_a: GO:0008144 {is_inferred="true"} ! drug binding
+is_a: GO:0050662 {is_inferred="true"} ! coenzyme binding
is_a: GO:1901681 {is_inferred="true"} ! sulfur compound binding

[Term]

@@ -82507,6 +90718,7 @@

[Term]

id: GO:1904067 ! ascr#2 binding
+is_a: GO:0005550 {is_inferred="true"} ! pheromone binding
is_a: GO:0097367 {is_inferred="true"} ! carbohydrate derivative binding

[Term]

@@ -82657,10 +90869,13 @@

id: GO:1904101 ! response to acadesine
is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound
is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
+is_a: GO:0061478 {is_inferred="true"} ! response to platelet aggregation inhibitor
+is_a: GO:0097327 {is_inferred="true"} ! response to antineoplastic agent
is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]

id: GO:1904102 ! cellular response to acadesine
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
is_a: GO:0071417 {is_inferred="true"} ! cellular response to organonitrogen compound
is_a: GO:1901701 {is_inferred="true"} ! cellular response to oxygen-containing
compound

@@ -83667,9 +91882,11 @@

id: GO:1904307 ! response to desipramine
is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound
is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
+is_a: GO:0036276 {is_inferred="true"} ! response to antidepressant

[Term]

id: GO:1904308 ! cellular response to desipramine
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
is_a: GO:0071417 {is_inferred="true"} ! cellular response to organonitrogen compound
is_a: GO:1904307 {is_inferred="true"} ! response to desipramine

@@ -83677,6 +91894,7 @@

[Term]

id: GO:1904309 ! response to cordycepin
is_a: GO:0014074 {is_inferred="true"} ! response to purine-containing compound
+is_a: GO:0097329 {is_inferred="true"} ! response to antimetabolite
is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]

@@ -83713,12 +91931,14 @@

id: GO:1904316 ! response to 2-O-acetyl-1-O-hexadecyl-sn-glycero-3-phosphocholine
is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound
is_a: GO:0033993 {is_inferred="true"} ! response to lipid

+is_a: GO:0042493 {is_inferred="true"} ! response to drug
 is_a: GO:0046683 {is_inferred="true"} ! response to organophosphorus
 is_a: GO:0060359 {is_inferred="true"} ! response to ammonium ion
 is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]

id: GO:1904317 ! cellular response to 2-O-acetyl-1-O-hexadecyl-sn-glycero-3-phosphocholine
 +is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
 is_a: GO:0071242 {is_inferred="true"} ! cellular response to ammonium ion
 is_a: GO:0071396 {is_inferred="true"} ! cellular response to lipid
 is_a: GO:0071417 {is_inferred="true"} ! cellular response to organonitrogen compound
 @@ -83729,10 +91949,12 @@
 id: GO:1904321 ! response to forskolin
 is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
 is_a: GO:0033993 {is_inferred="true"} ! response to lipid
 +is_a: GO:0061478 {is_inferred="true"} ! response to platelet aggregation inhibitor
 is_a: GO:1901654 {is_inferred="true"} ! response to ketone

[Term]

id: GO:1904322 ! cellular response to forskolin
 +is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
 is_a: GO:0071396 {is_inferred="true"} ! cellular response to lipid
 is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
 is_a: GO:1901655 {is_inferred="true"} ! cellular response to ketone
 @@ -83927,6 +92149,18 @@
 is_a: GO:1904359 {is_inferred="true"} ! regulation of spore germination

[Term]

id: GO:1904362 ! regulation of calcitonin secretion
 +is_a: GO:2001023 {is_inferred="true"} ! regulation of response to drug
 +
 +[Term]
 id: GO:1904363 ! negative regulation of calcitonin secretion
 +is_a: GO:2001024 {is_inferred="true"} ! negative regulation of response to drug
 +
 +[Term]
 id: GO:1904364 ! positive regulation of calcitonin secretion
 +is_a: GO:2001025 {is_inferred="true"} ! positive regulation of response to drug
 +
 +[Term]
 id: GO:1904365 ! regulation of chemokinesis
 is_a: GO:0032101 {is_inferred="true"} ! regulation of response to external stimulus

@@ -83966,10 +92200,12 @@

[Term]

id: GO:1904373 ! response to kainic acid
 is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
 +is_a: GO:0042493 {is_inferred="true"} ! response to drug
 is_a: GO:0043200 {is_inferred="true"} ! response to amino acid

[Term]

id: GO:1904374 ! cellular response to kainic acid
 +is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
 is_a: GO:0071230 {is_inferred="true"} ! cellular response to amino acid stimulus
 is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
 is_a: GO:1904373 {is_inferred="true"} ! response to kainic acid
 @@ -84096,21 +92332,23 @@

[Term]

id: GO:1904400 ! response to Thyroid stimulating hormone
 -is_a: GO:0010033 {is_inferred="true"} ! response to organic substance
 +is_a: GO:1904587 {is_inferred="true"} ! response to glycoprotein

[Term]

id: GO:1904401 ! cellular response to Thyroid stimulating hormone
 -is_a: GO:0070887 {is_inferred="true"} ! cellular response to chemical stimulus

is_a: GO:1904400 {is_inferred="true"} ! response to Thyroid stimulating hormone
 +is_a: GO:1904588 {is_inferred="true"} ! cellular response to glycoprotein

[Term]

id: GO:1904402 ! response to nocodazole
 is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound
 is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
 +is_a: GO:0097327 {is_inferred="true"} ! response to antineoplastic agent
 is_a: GO:1901654 {is_inferred="true"} ! response to ketone

[Term]

id: GO:1904403 ! cellular response to nocodazole
 +is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
 is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
 is_a: GO:0071417 {is_inferred="true"} ! cellular response to organonitrogen compound
 is_a: GO:1901655 {is_inferred="true"} ! cellular response to ketone
 @@ -84128,17 +92366,21 @@

[Term]

id: GO:1904406 ! negative regulation of nitric oxide metabolic process
 +is_a: GO:0001505 {is_inferred="true"} ! regulation of neurotransmitter levels
 is_a: GO:0051172 {is_inferred="true"} ! negative regulation of nitrogen compound
 metabolic process
 is_a: GO:2000378 {is_inferred="true"} ! negative regulation of reactive oxygen species
 metabolic process

[Term]

id: GO:1904407 ! positive regulation of nitric oxide metabolic process
 +is_a: GO:0001505 {is_inferred="true"} ! regulation of neurotransmitter levels
 is_a: GO:0051173 {is_inferred="true"} ! positive regulation of nitrogen compound
 metabolic process
 is_a: GO:2000379 {is_inferred="true"} ! positive regulation of reactive oxygen species
 metabolic process

[Term]

id: GO:1904408 ! melatonin binding
 +is_a: GO:0008144 {is_inferred="true"} ! drug binding
 is_a: GO:0033218 {is_inferred="true"} ! amide binding
 +is_a: GO:0042562 {is_inferred="true"} ! hormone binding
 is_a: GO:0097159 {is_inferred="true"} ! organic cyclic compound binding
 is_a: GO:1901363 {is_inferred="true"} ! heterocyclic compound binding

@@ -84351,6 +92593,7 @@

[Term]

id: GO:1904447 ! folic acid import across plasma membrane
 +is_a: GO:0006855 {is_inferred="true"} ! drug transmembrane transport
 is_a: GO:0015884 {is_inferred="true"} ! folic acid transport
 is_a: GO:0035461 {is_inferred="true"} ! vitamin transmembrane transport
 is_a: GO:0098739 {is_inferred="true"} ! import across plasma membrane
 @@ -84484,12 +92727,16 @@

[Term]

id: GO:1904473 ! response to L-dopa
 +is_a: GO:0009636 {is_inferred="true"} ! response to toxic substance
 +is_a: GO:0042493 {is_inferred="true"} ! response to drug
 is_a: GO:0043200 {is_inferred="true"} ! response to amino acid
 is_a: GO:1904386 {is_inferred="true"} ! response to L-phenylalanine derivative

[Term]

id: GO:1904474 ! cellular response to L-dopa
 +is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
 is_a: GO:0071230 {is_inferred="true"} ! cellular response to amino acid stimulus
 +is_a: GO:0097237 {is_inferred="true"} ! cellular response to toxic substance
 is_a: GO:1904387 {is_inferred="true"} ! cellular response to L-phenylalanine
 derivative
 is_a: GO:1904473 {is_inferred="true"} ! response to L-dopa

@@ -84549,12 +92796,16 @@

[Term]

id: GO:1904486 ! response to 17alpha-ethynylestradiol
+is_a: GO:0009725 {is_inferred="true"} ! response to hormone
is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
is_a: GO:0033993 {is_inferred="true"} ! response to lipid
+is_a: GO:0042493 {is_inferred="true"} ! response to drug
is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]

id: GO:1904487 ! cellular response to 17alpha-ethynylestradiol
+is_a: GO:0032870 {is_inferred="true"} ! cellular response to hormone stimulus
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:0071396 {is_inferred="true"} ! cellular response to lipid
is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
is_a: GO:1901701 {is_inferred="true"} ! cellular response to oxygen-containing
compound

@@ -84867,11 +93118,13 @@

[Term]

id: GO:1904555 ! L-proline transmembrane transport
+is_a: GO:0006855 {is_inferred="true"} ! drug transmembrane transport
is_a: GO:0035524 {is_inferred="true"} ! proline transmembrane transport
is_a: GO:1902475 {is_inferred="true"} ! L-alpha-amino acid transmembrane transport

[Term]

id: GO:1904556 ! L-tryptophan transmembrane transport
+is_a: GO:0006855 {is_inferred="true"} ! drug transmembrane transport
is_a: GO:0015827 {is_inferred="true"} ! tryptophan transport
is_a: GO:0098655 {is_inferred="true"} ! cation transmembrane transport
is_a: GO:1902475 {is_inferred="true"} ! L-alpha-amino acid transmembrane transport

@@ -84884,25 +93137,33 @@

[Term]

id: GO:1904558 ! response to dextromethorphan
+is_a: GO:0009410 {is_inferred="true"} ! response to xenobiotic stimulus
+is_a: GO:0009636 {is_inferred="true"} ! response to toxic substance
is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound
is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
+is_a: GO:0042493 {is_inferred="true"} ! response to drug
is_a: GO:0045472 {is_inferred="true"} ! response to ether

[Term]

id: GO:1904559 ! cellular response to dextromethorphan
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:0071362 {is_inferred="true"} ! cellular response to ether
is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
is_a: GO:0071417 {is_inferred="true"} ! cellular response to organonitrogen compound
+is_a: GO:0071466 {is_inferred="true"} ! cellular response to xenobiotic stimulus
+is_a: GO:0097237 {is_inferred="true"} ! cellular response to toxic substance
is_a: GO:1904558 {is_inferred="true"} ! response to dextromethorphan

[Term]

id: GO:1904560 ! response to diphenidol
is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound
is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
+is_a: GO:0042493 {is_inferred="true"} ! response to drug
is_a: GO:0097305 {is_inferred="true"} ! response to alcohol

[Term]

id: GO:1904561 ! cellular response to diphenidol
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
is_a: GO:0071417 {is_inferred="true"} ! cellular response to organonitrogen compound
is_a: GO:0097306 {is_inferred="true"} ! cellular response to alcohol

@@ -85146,28 +93407,34 @@

[Term]

id: GO:1904610 ! response to 3,3',4,4',5-pentachlorobiphenyl
is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
+is_a: GO:0042493 {is_inferred="true"} ! response to drug

[Term]

id: GO:1904611 ! cellular response to 3,3',4,4',5-pentachlorobiphenyl
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
is_a: GO:1904610 {is_inferred="true"} ! response to 3,3',4,4',5-pentachlorobiphenyl

[Term]

id: GO:1904612 ! response to 2,3,7,8-tetrachlorodibenzodioxine
+is_a: GO:0009410 {is_inferred="true"} ! response to xenobiotic stimulus
is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound

[Term]

id: GO:1904613 ! cellular response to 2,3,7,8-tetrachlorodibenzodioxine
is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
+is_a: GO:0071466 {is_inferred="true"} ! cellular response to xenobiotic stimulus
is_a: GO:1904612 {is_inferred="true"} ! response to 2,3,7,8-tetrachlorodibenzodioxine

[Term]

id: GO:1904614 ! response to biphenyl
is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
+is_a: GO:0060992 {is_inferred="true"} ! response to fungicide

[Term]

id: GO:1904615 ! cellular response to biphenyl
is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
+is_a: GO:0097237 {is_inferred="true"} ! cellular response to toxic substance
is_a: GO:1904614 {is_inferred="true"} ! response to biphenyl

[Term]

@@ -85187,10 +93454,11 @@

[Term]

id: GO:1904619 ! response to dimethyl sulfoxide
is_a: GO:0010033 {is_inferred="true"} ! response to organic substance
+is_a: GO:0042493 {is_inferred="true"} ! response to drug

[Term]

id: GO:1904620 ! cellular response to dimethyl sulfoxide
-is_a: GO:0070887 {is_inferred="true"} ! cellular response to chemical stimulus
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:1904619 {is_inferred="true"} ! response to dimethyl sulfoxide

[Term]

@@ -85212,6 +93480,7 @@

is_a: GO:0046928 {is_inferred="true"} ! regulation of neurotransmitter secretion
is_a: GO:0051955 {is_inferred="true"} ! regulation of amino acid transport
is_a: GO:0060092 {is_inferred="true"} ! regulation of synaptic transmission,
glycinergic
+is_a: GO:2001023 {is_inferred="true"} ! regulation of response to drug

[Term]

id: GO:1904625 ! negative regulation of glycine secretion, neurotransmission

@@ -85219,6 +93488,7 @@

is_a: GO:0051956 {is_inferred="true"} ! negative regulation of amino acid transport
is_a: GO:0060093 {is_inferred="true"} ! negative regulation of synaptic transmission,
glycinergic
is_a: GO:1904624 {is_inferred="true"} ! regulation of glycine secretion,
neurotransmission
+is_a: GO:2001024 {is_inferred="true"} ! negative regulation of response to drug

[Term]

id: GO:1904626 ! positive regulation of glycine secretion, neurotransmission

@@ -85226,14 +93496,17 @@

is_a: GO:0051957 {is_inferred="true"} ! positive regulation of amino acid transport
 is_a: GO:0060094 {is_inferred="true"} ! positive regulation of synaptic transmission, glycinergic
 is_a: GO:1904624 {is_inferred="true"} ! regulation of glycine secretion, neurotransmission
 +is_a: GO:2001025 {is_inferred="true"} ! positive regulation of response to drug

[Term]

id: GO:1904627 ! response to phorbol 13-acetate 12-myristate
 is_a: GO:0033993 {is_inferred="true"} ! response to lipid
 +is_a: GO:0097327 {is_inferred="true"} ! response to antineoplastic agent
 is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]

id: GO:1904628 ! cellular response to phorbol 13-acetate 12-myristate
 +is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
 is_a: GO:0071396 {is_inferred="true"} ! cellular response to lipid
 is_a: GO:1901701 {is_inferred="true"} ! cellular response to oxygen-containing compound
 is_a: GO:1904627 {is_inferred="true"} ! response to phorbol 13-acetate 12-myristate
 @@ -85285,12 +93558,14 @@

[Term]

id: GO:1904638 ! response to resveratrol
 +is_a: GO:0009636 {is_inferred="true"} ! response to toxic substance
 is_a: GO:0035634 {is_inferred="true"} ! response to stilbenoid
 is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]

id: GO:1904639 ! cellular response to resveratrol
 is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
 +is_a: GO:0097237 {is_inferred="true"} ! cellular response to toxic substance
 is_a: GO:1901701 {is_inferred="true"} ! cellular response to oxygen-containing compound
 is_a: GO:1904638 {is_inferred="true"} ! response to resveratrol

@@ -85315,10 +93590,12 @@

id: GO:1904643 ! response to curcumin
 is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
 is_a: GO:0045472 {is_inferred="true"} ! response to ether
 +is_a: GO:0097327 {is_inferred="true"} ! response to antineoplastic agent
 is_a: GO:1901654 {is_inferred="true"} ! response to ketone

[Term]

id: GO:1904644 ! cellular response to curcumin
 +is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
 is_a: GO:0071362 {is_inferred="true"} ! cellular response to ether
 is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
 is_a: GO:1901655 {is_inferred="true"} ! cellular response to ketone
 @@ -85336,11 +93613,15 @@

[Term]

id: GO:1904647 ! response to rotenone
 is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
 +is_a: GO:0017085 {is_inferred="true"} ! response to insecticide
 +is_a: GO:0097327 {is_inferred="true"} ! response to antineoplastic agent
 is_a: GO:1901654 {is_inferred="true"} ! response to ketone

[Term]

id: GO:1904648 ! cellular response to rotenone
 +is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
 is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
 +is_a: GO:0097237 {is_inferred="true"} ! cellular response to toxic substance
 is_a: GO:1901655 {is_inferred="true"} ! cellular response to ketone
 is_a: GO:1904647 {is_inferred="true"} ! response to rotenone
 @@ -85440,6 +93721,7 @@

@@ -85440,6 +93721,7 @@

[Term]

id: GO:1904669 ! ATP export
 is_a: GO:0015867 {is_inferred="true"} ! ATP transport
 +is_a: GO:0046618 {is_inferred="true"} ! drug export

[Term]

id: GO:1904670 ! actin filament polymerization involved in mitotic actomyosin contractile ring assembly
 @@ -86094,6 +94376,7 @@

[Term]

id: GO:1904804 ! response to latrunculin A
 +is_a: GO:0009636 {is_inferred="true"} ! response to toxic substance
 is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound
 is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
 is_a: GO:0097305 {is_inferred="true"} ! response to alcohol
 @@ -86102,6 +94385,7 @@

id: GO:1904805 ! cellular response to latrunculin A
 is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
 is_a: GO:0071417 {is_inferred="true"} ! cellular response to organonitrogen compound
 +is_a: GO:0097237 {is_inferred="true"} ! cellular response to toxic substance
 is_a: GO:0097306 {is_inferred="true"} ! cellular response to alcohol
 is_a: GO:1904804 {is_inferred="true"} ! response to latrunculin A

@@ -86198,17 +94482,20 @@

id: GO:1904826 ! regulation of hydrogen sulfide biosynthetic process
 is_a: GO:0031326 {is_inferred="true"} ! regulation of cellular biosynthetic process
 is_a: GO:0042762 {is_inferred="true"} ! regulation of sulfur metabolic process
 +is_a: GO:1900376 {is_inferred="true"} ! regulation of secondary metabolite biosynthetic process

[Term]

id: GO:1904827 ! negative regulation of hydrogen sulfide biosynthetic process
 is_a: GO:0031327 {is_inferred="true"} ! negative regulation of cellular biosynthetic process
 is_a: GO:0051175 {is_inferred="true"} ! negative regulation of sulfur metabolic process
 +is_a: GO:1900377 {is_inferred="true"} ! negative regulation of secondary metabolite biosynthetic process
 is_a: GO:1904826 {is_inferred="true"} ! regulation of hydrogen sulfide biosynthetic process

[Term]

id: GO:1904828 ! positive regulation of hydrogen sulfide biosynthetic process
 is_a: GO:0031328 {is_inferred="true"} ! positive regulation of cellular biosynthetic process
 is_a: GO:0051176 {is_inferred="true"} ! positive regulation of sulfur metabolic process
 +is_a: GO:1900378 {is_inferred="true"} ! positive regulation of secondary metabolite biosynthetic process
 is_a: GO:1904826 {is_inferred="true"} ! regulation of hydrogen sulfide biosynthetic process

[Term]

@@ -86284,22 +94571,28 @@

[Term]

id: GO:1904842 ! response to nitroglycerin
 +is_a: GO:0009410 {is_inferred="true"} ! response to xenobiotic stimulus
 is_a: GO:0010033 {is_inferred="true"} ! response to organic substance
 is_a: GO:1901698 {is_inferred="true"} ! response to nitrogen compound
 is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]

id: GO:1904843 ! cellular response to nitroglycerin
 +is_a: GO:0071466 {is_inferred="true"} ! cellular response to xenobiotic stimulus
 is_a: GO:1901699 {is_inferred="true"} ! cellular response to nitrogen compound

is_a: GO:1901701 {is_inferred="true"} ! cellular response to oxygen-containing compound
 is_a: GO:1904842 {is_inferred="true"} ! response to nitroglycerin

[Term]

id: GO:1904844 ! response to L-glutamine
 +is_a: GO:0007584 {is_inferred="true"} ! response to nutrient
 +is_a: GO:0042493 {is_inferred="true"} ! response to drug
 is_a: GO:0043200 {is_inferred="true"} ! response to amino acid

[Term]

id: GO:1904845 ! cellular response to L-glutamine
 +is_a: GO:0031670 {is_inferred="true"} ! cellular response to nutrient
 +is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
 is_a: GO:0071230 {is_inferred="true"} ! cellular response to amino acid stimulus
 is_a: GO:1904844 {is_inferred="true"} ! response to L-glutamine

@@ -86476,11 +94769,15 @@

[Term]

id: GO:1904880 ! response to hydrogen sulfide
 is_a: GO:0001101 {is_inferred="true"} ! response to acid chemical
 +is_a: GO:0009636 {is_inferred="true"} ! response to toxic substance
 is_a: GO:0010035 {is_inferred="true"} ! response to inorganic substance
 +is_a: GO:0042493 {is_inferred="true"} ! response to drug

[Term]

id: GO:1904881 ! cellular response to hydrogen sulfide
 +is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
 is_a: GO:0071229 {is_inferred="true"} ! cellular response to acid chemical
 +is_a: GO:0097237 {is_inferred="true"} ! cellular response to toxic substance
 is_a: GO:1904880 {is_inferred="true"} ! response to hydrogen sulfide

[Term]

@@ -86788,6 +95085,7 @@

[Term]

id: GO:1904947 ! folic acid import into mitochondrion
 +is_a: GO:0006855 {is_inferred="true"} ! drug transmembrane transport
 is_a: GO:0015884 {is_inferred="true"} ! folic acid transport
 is_a: GO:0035461 {is_inferred="true"} ! vitamin transmembrane transport
 is_a: GO:1905039 {is_inferred="true"} ! carboxylic acid transmembrane transport
 @@ -86960,6 +95258,7 @@

[Term]

id: GO:1904983 ! transmembrane glycine transport from cytosol to mitochondrion
 +is_a: GO:0006855 {is_inferred="true"} ! drug transmembrane transport
 is_a: GO:0015816 {is_inferred="true"} ! glycine transport
 is_a: GO:0098655 {is_inferred="true"} ! cation transmembrane transport
 is_a: GO:1902475 {is_inferred="true"} ! L-alpha-amino acid transmembrane transport
 @@ -87089,6 +95388,7 @@
 is_a: GO:0010805 {is_inferred="true"} ! regulation of lysine import
 is_a: GO:1903789 {is_inferred="true"} ! regulation of amino acid transmembrane transport
 is_a: GO:1904062 {is_inferred="true"} ! regulation of cation transmembrane transport
 +is_a: GO:2001023 {is_inferred="true"} ! regulation of response to drug

[Term]

id: GO:1905009 ! negative regulation of L-lysine import across plasma membrane
 @@ -87096,6 +95396,7 @@
 is_a: GO:1903960 {is_inferred="true"} ! negative regulation of anion transmembrane transport
 is_a: GO:1904063 {is_inferred="true"} ! negative regulation of cation transmembrane transport
 is_a: GO:1905008 {is_inferred="true"} ! regulation of L-lysine import across plasma membrane
 +is_a: GO:2001024 {is_inferred="true"} ! negative regulation of response to drug

```
[Term]
id: GO:1905010 ! positive regulation of L-lysine import across plasma membrane
@@ -87103,6 +95404,7 @@
is_a: GO:1903961 {is_inferred="true"} ! positive regulation of anion transmembrane
transport
is_a: GO:1904064 {is_inferred="true"} ! positive regulation of cation transmembrane
transport
is_a: GO:1905008 {is_inferred="true"} ! regulation of L-lysine import across plasma
membrane
+is_a: GO:2001025 {is_inferred="true"} ! positive regulation of response to drug
```

```
[Term]
id: GO:1905011 ! transmembrane phosphate ion transport from cytosol to vacuole
@@ -87529,10 +95831,12 @@
id: GO:1905092 ! response to diosgenin
is_a: GO:0036314 {is_inferred="true"} ! response to sterol
is_a: GO:0097305 {is_inferred="true"} ! response to alcohol
+is_a: GO:0097327 {is_inferred="true"} ! response to antineoplastic agent
is_a: GO:1905836 {is_inferred="true"} ! response to triterpenoid
```

```
[Term]
id: GO:1905093 ! cellular response to diosgenin
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:0036315 {is_inferred="true"} ! cellular response to sterol
is_a: GO:0097306 {is_inferred="true"} ! cellular response to alcohol
is_a: GO:1905092 {is_inferred="true"} ! response to diosgenin
@@ -87649,10 +95953,12 @@
is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound
is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
is_a: GO:0097305 {is_inferred="true"} ! response to alcohol
+is_a: GO:0097332 {is_inferred="true"} ! response to antipsychotic drug
is_a: GO:1901654 {is_inferred="true"} ! response to ketone
```

```
[Term]
id: GO:1905120 ! cellular response to haloperidol
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound
is_a: GO:0071417 {is_inferred="true"} ! cellular response to organonitrogen compound
is_a: GO:0097306 {is_inferred="true"} ! cellular response to alcohol
@@ -87735,6 +96041,7 @@
```

```
[Term]
id: GO:1905135 ! biotin import across plasma membrane
+is_a: GO:0006855 {is_inferred="true"} ! drug transmembrane transport
is_a: GO:0035461 {is_inferred="true"} ! vitamin transmembrane transport
is_a: GO:0098739 {is_inferred="true"} ! import across plasma membrane
is_a: GO:1901689 {is_inferred="true"} ! biotin import
@@ -87782,12 +96089,15 @@
```

```
[Term]
id: GO:1905144 ! response to acetylcholine
-is_a: GO:0010033 {is_inferred="true"} ! response to organic substance
+is_a: GO:0009725 {is_inferred="true"} ! response to hormone
+is_a: GO:0042493 {is_inferred="true"} ! response to drug
is_a: GO:0060359 {is_inferred="true"} ! response to ammonium ion
is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound
```

```
[Term]
id: GO:1905145 ! cellular response to acetylcholine
+is_a: GO:0032870 {is_inferred="true"} ! cellular response to hormone stimulus
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:0071242 {is_inferred="true"} ! cellular response to ammonium ion
is_a: GO:1901701 {is_inferred="true"} ! cellular response to oxygen-containing
compound
is_a: GO:1905144 {is_inferred="true"} ! response to acetylcholine
@@ -88044,6 +96354,7 @@
```

[Term]
id: GO:1905200 ! gibberellic acid transmembrane transport
+is_a: GO:0009914 {is_inferred="true"} ! hormone transport
is_a: GO:0015718 {is_inferred="true"} ! monocarboxylic acid transport
is_a: GO:0046865 {is_inferred="true"} ! terpenoid transport
is_a: GO:1905039 {is_inferred="true"} ! carboxylic acid transmembrane transport
@@ -88076,6 +96387,7 @@
is_a: GO:1901033 {is_inferred="true"} ! positive regulation of response to reactive oxygen species
is_a: GO:1903205 {is_inferred="true"} ! regulation of hydrogen peroxide-induced cell death
is_a: GO:1903209 {is_inferred="true"} ! positive regulation of oxidative stress-induced cell death
+is_a: GO:2001040 {is_inferred="true"} ! positive regulation of cellular response to drug

[Term]
id: GO:1905207 ! regulation of cardiocyte differentiation
@@ -88134,9 +96446,11 @@

[Term]
id: GO:1905217 ! response to astaxanthin
is_a: GO:0033993 {is_inferred="true"} ! response to lipid
+is_a: GO:0061476 {is_inferred="true"} ! response to anticoagulant

[Term]
id: GO:1905218 ! cellular response to astaxanthin
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:0071396 {is_inferred="true"} ! cellular response to lipid
is_a: GO:1905217 {is_inferred="true"} ! response to astaxanthin

@@ -88203,35 +96517,47 @@

[Term]
id: GO:1905232 ! cellular response to L-glutamate
+is_a: GO:0031670 {is_inferred="true"} ! cellular response to nutrient
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:0071230 {is_inferred="true"} ! cellular response to amino acid stimulus
is_a: GO:1902065 {is_inferred="true"} ! response to L-glutamate

[Term]
id: GO:1905233 ! response to codeine
+is_a: GO:0009410 {is_inferred="true"} ! response to xenobiotic stimulus
is_a: GO:0014072 {is_inferred="true"} ! response to isoquinoline alkaloid
+is_a: GO:0042493 {is_inferred="true"} ! response to drug
is_a: GO:0060359 {is_inferred="true"} ! response to ammonium ion

[Term]
id: GO:1905234 ! cellular response to codeine
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:0071242 {is_inferred="true"} ! cellular response to ammonium ion
is_a: GO:0071317 {is_inferred="true"} ! cellular response to isoquinoline alkaloid
+is_a: GO:0071466 {is_inferred="true"} ! cellular response to xenobiotic stimulus
is_a: GO:1905233 {is_inferred="true"} ! response to codeine

[Term]
id: GO:1905235 ! response to quercetin
+is_a: GO:0009725 {is_inferred="true"} ! response to hormone
+is_a: GO:0097327 {is_inferred="true"} ! response to antineoplastic agent
is_a: GO:1905395 {is_inferred="true"} ! response to flavonoid

[Term]
id: GO:1905236 ! cellular response to quercetin
+is_a: GO:0032870 {is_inferred="true"} ! cellular response to hormone stimulus
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
is_a: GO:1905235 {is_inferred="true"} ! response to quercetin
is_a: GO:1905396 {is_inferred="true"} ! cellular response to flavonoid

[Term]

id: GO:1905237 ! response to cyclosporin A

+is_a: GO:0042493 {is_inferred="true"} ! response to drug

is_a: GO:1901652 {is_inferred="true"} ! response to peptide

[Term]

id: GO:1905238 ! cellular response to cyclosporin A

+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug

is_a: GO:1901653 {is_inferred="true"} ! cellular response to peptide

is_a: GO:1905237 {is_inferred="true"} ! response to cyclosporin A

@@ -88256,11 +96582,13 @@

id: GO:1905242 ! response to 3,3',5-triiodo-L-thyronine

is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound

is_a: GO:0043200 {is_inferred="true"} ! response to amino acid

+is_a: GO:0097066 {is_inferred="true"} ! response to thyroid hormone

[Term]

id: GO:1905243 ! cellular response to 3,3',5-triiodo-L-thyronine

is_a: GO:0071230 {is_inferred="true"} ! cellular response to amino acid stimulus

is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound

+is_a: GO:0097067 {is_inferred="true"} ! cellular response to thyroid hormone stimulus

is_a: GO:1905242 {is_inferred="true"} ! response to 3,3',5-triiodo-L-thyronine

[Term]

@@ -88557,9 +96885,11 @@

id: GO:1905307 ! response to miconazole

is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound

is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound

+is_a: GO:0097327 {is_inferred="true"} ! response to antineoplastic agent

[Term]

id: GO:1905308 ! cellular response to miconazole

+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug

is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound

is_a: GO:0071417 {is_inferred="true"} ! cellular response to organonitrogen compound

is_a: GO:1905307 {is_inferred="true"} ! response to miconazole

@@ -89015,6 +97345,7 @@

id: GO:1905407 ! regulation of creatine transmembrane transporter activity

is_a: GO:0032412 {is_inferred="true"} ! regulation of ion transmembrane transporter activity

is_a: GO:1903789 {is_inferred="true"} ! regulation of amino acid transmembrane transport

+is_a: GO:2001023 {is_inferred="true"} ! regulation of response to drug

[Term]

id: GO:1905408 ! negative regulation of creatine transmembrane transporter activity

@@ -89022,6 +97353,7 @@

is_a: GO:0051956 {is_inferred="true"} ! negative regulation of amino acid transport

is_a: GO:1903960 {is_inferred="true"} ! negative regulation of anion transmembrane transport

is_a: GO:1905407 {is_inferred="true"} ! regulation of creatine transmembrane transporter activity

+is_a: GO:2001024 {is_inferred="true"} ! negative regulation of response to drug

[Term]

id: GO:1905409 ! positive regulation of creatine transmembrane transporter activity

@@ -89029,6 +97361,7 @@

is_a: GO:0051957 {is_inferred="true"} ! positive regulation of amino acid transport

is_a: GO:1903961 {is_inferred="true"} ! positive regulation of anion transmembrane transport

is_a: GO:1905407 {is_inferred="true"} ! regulation of creatine transmembrane transporter activity

+is_a: GO:2001025 {is_inferred="true"} ! positive regulation of response to drug

[Term]

id: GO:1905410 ! regulation of mitotic cohesin unloading

@@ -89131,16 +97464,21 @@

[Term]

id: GO:1905429 ! response to glycine
 +is_a: GO:0007584 {is_inferred="true"} ! response to nutrient
 +is_a: GO:0042493 {is_inferred="true"} ! response to drug
 is_a: GO:0043200 {is_inferred="true"} ! response to amino acid

[Term]

id: GO:1905430 ! cellular response to glycine
 +is_a: GO:0031670 {is_inferred="true"} ! cellular response to nutrient
 +is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
 is_a: GO:0071230 {is_inferred="true"} ! cellular response to amino acid stimulus
 is_a: GO:1905429 {is_inferred="true"} ! response to glycine

[Term]

id: GO:1905431 ! microcystin transport
 is_a: GO:0015833 {is_inferred="true"} ! peptide transport
 +is_a: GO:1901998 {is_inferred="true"} ! toxin transport

[Term]

id: GO:1905432 ! regulation of retrograde trans-synaptic signaling by neuropeptide
 @@ -89477,6 +97815,7 @@

[Term]

id: GO:1905502 ! acetyl-CoA binding
 is_a: GO:0043168 {is_inferred="true"} ! anion binding
 +is_a: GO:0050662 {is_inferred="true"} ! coenzyme binding
 is_a: GO:1901681 {is_inferred="true"} ! sulfur compound binding

[Term]

@@ -89599,16 +97938,19 @@

[Term]

id: GO:1905529 ! regulation of uracil import across plasma membrane
 is_a: GO:0034762 {is_inferred="true"} ! regulation of transmembrane transport
 +is_a: GO:2001023 {is_inferred="true"} ! regulation of response to drug

[Term]

id: GO:1905530 ! negative regulation of uracil import across plasma membrane
 is_a: GO:0034763 {is_inferred="true"} ! negative regulation of transmembrane transport
 is_a: GO:1905529 {is_inferred="true"} ! regulation of uracil import across plasma
 membrane
 +is_a: GO:2001024 {is_inferred="true"} ! negative regulation of response to drug

[Term]

id: GO:1905531 ! positive regulation of uracil import across plasma membrane
 is_a: GO:0034764 {is_inferred="true"} ! positive regulation of transmembrane transport
 is_a: GO:1905529 {is_inferred="true"} ! regulation of uracil import across plasma
 membrane
 +is_a: GO:2001025 {is_inferred="true"} ! positive regulation of response to drug

[Term]

id: GO:1905532 ! regulation of leucine import across plasma membrane
 @@ -89669,6 +98011,7 @@
 is_a: GO:1903960 {is_inferred="true"} ! negative regulation of anion transmembrane
 transport
 is_a: GO:1904063 {is_inferred="true"} ! negative regulation of cation transmembrane
 transport
 is_a: GO:1905541 {is_inferred="true"} ! regulation of L-arginine import across plasma
 membrane
 +is_a: GO:2001024 {is_inferred="true"} ! negative regulation of response to drug

[Term]

id: GO:1905543 ! interleukin-15 receptor complex
 @@ -89677,6 +98020,7 @@

[Term]

id: GO:1905544 ! L-methionine import across plasma membrane

```

+is_a: GO:0006855 {is_inferred="true"} ! drug transmembrane transport
  is_a: GO:0043092 {is_inferred="true"} ! L-amino acid import
  is_a: GO:1902475 {is_inferred="true"} ! L-alpha-amino acid transmembrane transport
  is_a: GO:1903692 {is_inferred="true"} ! methionine import across plasma membrane
@@ -90054,6 +98398,7 @@
  is_a: GO:0010958 {is_inferred="true"} ! regulation of amino acid import
  is_a: GO:1903789 {is_inferred="true"} ! regulation of amino acid transmembrane
transport
  is_a: GO:1904062 {is_inferred="true"} ! regulation of cation transmembrane transport
+is_a: GO:2001023 {is_inferred="true"} ! regulation of response to drug

```

[Term]

```

id: GO:1905625 ! negative regulation of L-methionine import across plasma membrane
@@ -90061,6 +98406,7 @@
  is_a: GO:1903960 {is_inferred="true"} ! negative regulation of anion transmembrane
transport
  is_a: GO:1904063 {is_inferred="true"} ! negative regulation of cation transmembrane
transport
  is_a: GO:1905624 {is_inferred="true"} ! regulation of L-methionine import across
plasma membrane
+is_a: GO:2001024 {is_inferred="true"} ! negative regulation of response to drug

```

[Term]

```

id: GO:1905626 ! positive regulation of L-methionine import across plasma membrane
@@ -90068,9 +98414,11 @@
  is_a: GO:1903961 {is_inferred="true"} ! positive regulation of anion transmembrane
transport
  is_a: GO:1904064 {is_inferred="true"} ! positive regulation of cation transmembrane
transport
  is_a: GO:1905624 {is_inferred="true"} ! regulation of L-methionine import across
plasma membrane
+is_a: GO:2001025 {is_inferred="true"} ! positive regulation of response to drug

```

[Term]

```

id: GO:1905627 ! regulation of serotonin biosynthetic process
+is_a: GO:0001505 {is_inferred="true"} ! regulation of neurotransmitter levels
  is_a: GO:0031326 {is_inferred="true"} ! regulation of cellular biosynthetic process
  is_a: GO:0051171 {is_inferred="true"} ! regulation of nitrogen compound metabolic
process

```

```
@@ -90437,6 +98785,7 @@
```

[Term]

```

id: GO:1905705 ! cellular response to paclitaxel
+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug
  is_a: GO:0071396 {is_inferred="true"} ! cellular response to lipid
  is_a: GO:1901555 {is_inferred="true"} ! response to paclitaxel

```

```
@@ -90530,16 +98879,19 @@
```

[Term]

```

id: GO:1905735 ! regulation of L-proline import across plasma membrane
  is_a: GO:1902834 {is_inferred="true"} ! regulation of proline import across plasma
membrane
+is_a: GO:2001023 {is_inferred="true"} ! regulation of response to drug

```

[Term]

```

id: GO:1905736 ! negative regulation of L-proline import across plasma membrane
  is_a: GO:1902835 {is_inferred="true"} ! negative regulation of proline import across
plasma membrane
  is_a: GO:1905735 {is_inferred="true"} ! regulation of L-proline import across plasma
membrane
+is_a: GO:2001024 {is_inferred="true"} ! negative regulation of response to drug

```

[Term]

```

id: GO:1905737 ! positive regulation of L-proline import across plasma membrane
  is_a: GO:1902836 {is_inferred="true"} ! positive regulation of proline import across
plasma membrane

```

is_a: GO:1905735 {is_inferred="true"} ! regulation of L-proline import across plasma membrane

+is_a: GO:2001025 {is_inferred="true"} ! positive regulation of response to drug

[Term]

id: GO:1905741 ! mitochondrial calcium release involved in positive regulation of presynaptic cytosolic calcium concentration

@@ -90804,10 +99156,12 @@

[Term]

id: GO:1905794 ! response to puromycin

is_a: GO:0014074 {is_inferred="true"} ! response to purine-containing compound

+is_a: GO:0097327 {is_inferred="true"} ! response to antineoplastic agent

is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]

id: GO:1905795 ! cellular response to puromycin

+is_a: GO:0035690 {is_inferred="true"} ! cellular response to drug

is_a: GO:0071407 {is_inferred="true"} ! cellular response to organic cyclic compound

is_a: GO:0071417 {is_inferred="true"} ! cellular response to organonitrogen compound

is_a: GO:1901701 {is_inferred="true"} ! cellular response to oxygen-containing compound

@@ -91064,11 +99418,13 @@

[Term]

id: GO:1905841 ! response to oxidopamine

+is_a: GO:0009636 {is_inferred="true"} ! response to toxic substance

is_a: GO:0071869 {is_inferred="true"} ! response to catecholamine

[Term]

id: GO:1905842 ! cellular response to oxidopamine

is_a: GO:0071870 {is_inferred="true"} ! cellular response to catecholamine stimulus

+is_a: GO:0097237 {is_inferred="true"} ! cellular response to toxic substance

is_a: GO:1905841 {is_inferred="true"} ! response to oxidopamine

[Term]

@@ -91473,18 +99829,18 @@

[Term]

id: GO:1905921 ! regulation of acetylcholine biosynthetic process

-is_a: GO:0031326 {is_inferred="true"} ! regulation of cellular biosynthetic process

+is_a: GO:0046885 {is_inferred="true"} ! regulation of hormone biosynthetic process

is_a: GO:0060408 {is_inferred="true"} ! regulation of acetylcholine metabolic process

[Term]

id: GO:1905922 ! negative regulation of acetylcholine biosynthetic process

-is_a: GO:0031327 {is_inferred="true"} ! negative regulation of cellular biosynthetic process

+is_a: GO:0032353 {is_inferred="true"} ! negative regulation of hormone biosynthetic process

is_a: GO:0060410 {is_inferred="true"} ! negative regulation of acetylcholine metabolic process

is_a: GO:1905921 {is_inferred="true"} ! regulation of acetylcholine biosynthetic process

[Term]

id: GO:1905923 ! positive regulation of acetylcholine biosynthetic process

-is_a: GO:0031328 {is_inferred="true"} ! positive regulation of cellular biosynthetic process

+is_a: GO:0046886 {is_inferred="true"} ! positive regulation of hormone biosynthetic process

is_a: GO:0060409 {is_inferred="true"} ! positive regulation of acetylcholine metabolic process

is_a: GO:1905921 {is_inferred="true"} ! regulation of acetylcholine biosynthetic process

@@ -91745,6 +100101,7 @@

id: GO:1990054 ! response to temozolomide

is_a: GO:0010243 {is_inferred="true"} ! response to organonitrogen compound
 is_a: GO:0014070 {is_inferred="true"} ! response to organic cyclic compound
 +is_a: GO:0097327 {is_inferred="true"} ! response to antineoplastic agent
 is_a: GO:1901700 {is_inferred="true"} ! response to oxygen-containing compound

[Term]

@@ -92256,12 +100613,12 @@

[Term]

id: GO:1990543 ! mitochondrial S-adenosyl-L-methionine transmembrane transport
 -is_a: GO:0071702 {is_inferred="true"} ! organic substance transport
 -is_a: GO:0072348 {is_inferred="true"} ! sulfur compound transport
 +is_a: GO:1901962 {is_inferred="true"} ! S-adenosyl-L-methionine transmembrane transport
 is_a: GO:1990542 {is_inferred="true"} ! mitochondrial transmembrane transport

[Term]

id: GO:1990544 ! mitochondrial ATP transmembrane transport
 +is_a: GO:0006855 {is_inferred="true"} ! drug transmembrane transport
 is_a: GO:0015867 {is_inferred="true"} ! ATP transport
 is_a: GO:0072530 {is_inferred="true"} ! purine-containing compound transmembrane transport
 is_a: GO:0098656 {is_inferred="true"} ! anion transmembrane transport
 @@ -92618,6 +100975,7 @@
 id: GO:1990818 ! L-arginine transmembrane export from vacuole
 is_a: GO:0032974 {is_inferred="true"} ! amino acid transmembrane export from vacuole
 is_a: GO:1903400 {is_inferred="true"} ! L-arginine transmembrane transport
 +is_a: GO:1990961 {is_inferred="true"} ! drug transmembrane export

[Term]

id: GO:1990819 ! actin fusion focus
 @@ -92899,6 +101257,7 @@

[Term]

id: GO:2000031 ! regulation of salicylic acid mediated signaling pathway
 is_a: GO:0009966 {is_inferred="true"} ! regulation of signal transduction
 +is_a: GO:2001038 {is_inferred="true"} ! regulation of cellular response to drug

[Term]

id: GO:2000032 ! regulation of secondary shoot formation
 @@ -93148,12 +101507,14 @@
 is_a: GO:0030656 {is_inferred="true"} ! regulation of vitamin metabolic process
 is_a: GO:0031326 {is_inferred="true"} ! regulation of cellular biosynthetic process
 is_a: GO:0043255 {is_inferred="true"} ! regulation of carbohydrate biosynthetic process
 +is_a: GO:0051196 {is_inferred="true"} ! regulation of coenzyme metabolic process

[Term]

id: GO:2000083 ! negative regulation of L-ascorbic acid biosynthetic process
 is_a: GO:0031327 {is_inferred="true"} ! negative regulation of cellular biosynthetic process
 is_a: GO:0045912 {is_inferred="true"} ! negative regulation of carbohydrate metabolic process
 is_a: GO:0046137 {is_inferred="true"} ! negative regulation of vitamin metabolic process
 +is_a: GO:0051198 {is_inferred="true"} ! negative regulation of coenzyme metabolic process
 is_a: GO:2000082 {is_inferred="true"} ! regulation of L-ascorbic acid biosynthetic process

[Term]

@@ -93822,12 +102183,13 @@

[Term]

id: GO:2000224 ! regulation of testosterone biosynthetic process
 is_a: GO:0010566 {is_inferred="true"} ! regulation of ketone biosynthetic process
 +is_a: GO:0046885 {is_inferred="true"} ! regulation of hormone biosynthetic process
 is_a: GO:0050810 {is_inferred="true"} ! regulation of steroid biosynthetic process

[Term]
id: GO:2000225 ! negative regulation of testosterone biosynthetic process
is_a: GO:0010894 {is_inferred="true"} ! negative regulation of steroid biosynthetic process
-is_a: GO:0031327 {is_inferred="true"} ! negative regulation of cellular biosynthetic process
+is_a: GO:0032353 {is_inferred="true"} ! negative regulation of hormone biosynthetic process
is_a: GO:2000224 {is_inferred="true"} ! regulation of testosterone biosynthetic process

[Term]
@@ -96781,52 +105143,52 @@

[Term]
id: GO:2000837 ! regulation of androstenedione secretion
is_a: GO:0032368 {is_inferred="true"} ! regulation of lipid transport
-is_a: GO:0051046 {is_inferred="true"} ! regulation of secretion
+is_a: GO:0046883 {is_inferred="true"} ! regulation of hormone secretion

[Term]
id: GO:2000838 ! negative regulation of androstenedione secretion
is_a: GO:0032369 {is_inferred="true"} ! negative regulation of lipid transport
-is_a: GO:0051048 {is_inferred="true"} ! negative regulation of secretion
+is_a: GO:0046888 {is_inferred="true"} ! negative regulation of hormone secretion
is_a: GO:2000837 {is_inferred="true"} ! regulation of androstenedione secretion

[Term]
id: GO:2000839 ! positive regulation of androstenedione secretion
is_a: GO:0032370 {is_inferred="true"} ! positive regulation of lipid transport
-is_a: GO:0051047 {is_inferred="true"} ! positive regulation of secretion
+is_a: GO:0046887 {is_inferred="true"} ! positive regulation of hormone secretion
is_a: GO:2000837 {is_inferred="true"} ! regulation of androstenedione secretion

[Term]
id: GO:2000840 ! regulation of dehydroepiandrosterone secretion
is_a: GO:0032368 {is_inferred="true"} ! regulation of lipid transport
-is_a: GO:0051046 {is_inferred="true"} ! regulation of secretion
+is_a: GO:0046883 {is_inferred="true"} ! regulation of hormone secretion

[Term]
id: GO:2000841 ! negative regulation of dehydroepiandrosterone secretion
is_a: GO:0032369 {is_inferred="true"} ! negative regulation of lipid transport
-is_a: GO:0051048 {is_inferred="true"} ! negative regulation of secretion
+is_a: GO:0046888 {is_inferred="true"} ! negative regulation of hormone secretion
is_a: GO:2000840 {is_inferred="true"} ! regulation of dehydroepiandrosterone secretion

[Term]
id: GO:2000842 ! positive regulation of dehydroepiandrosterone secretion
is_a: GO:0032370 {is_inferred="true"} ! positive regulation of lipid transport
-is_a: GO:0051047 {is_inferred="true"} ! positive regulation of secretion
+is_a: GO:0046887 {is_inferred="true"} ! positive regulation of hormone secretion
is_a: GO:2000840 {is_inferred="true"} ! regulation of dehydroepiandrosterone secretion

[Term]
id: GO:2000843 ! regulation of testosterone secretion
is_a: GO:0032368 {is_inferred="true"} ! regulation of lipid transport
-is_a: GO:0051046 {is_inferred="true"} ! regulation of secretion
+is_a: GO:0046883 {is_inferred="true"} ! regulation of hormone secretion

[Term]
id: GO:2000844 ! negative regulation of testosterone secretion
is_a: GO:0032369 {is_inferred="true"} ! negative regulation of lipid transport
-is_a: GO:0051048 {is_inferred="true"} ! negative regulation of secretion
+is_a: GO:0046888 {is_inferred="true"} ! negative regulation of hormone secretion
is_a: GO:2000843 {is_inferred="true"} ! regulation of testosterone secretion

[Term]

id: GO:2000845 ! positive regulation of testosterone secretion
 is_a: GO:0032370 {is_inferred="true"} ! positive regulation of lipid transport
 -is_a: GO:0051047 {is_inferred="true"} ! positive regulation of secretion
 +is_a: GO:0046887 {is_inferred="true"} ! positive regulation of hormone secretion
 is_a: GO:2000843 {is_inferred="true"} ! regulation of testosterone secretion

[Term]

@@ -96874,36 +105236,51 @@

[Term]

id: GO:2000864 ! regulation of estradiol secretion
 is_a: GO:0032368 {is_inferred="true"} ! regulation of lipid transport
 -is_a: GO:0051046 {is_inferred="true"} ! regulation of secretion
 +is_a: GO:0046883 {is_inferred="true"} ! regulation of hormone secretion

[Term]

id: GO:2000865 ! negative regulation of estradiol secretion
 is_a: GO:0032369 {is_inferred="true"} ! negative regulation of lipid transport
 -is_a: GO:0051048 {is_inferred="true"} ! negative regulation of secretion
 +is_a: GO:0046888 {is_inferred="true"} ! negative regulation of hormone secretion
 is_a: GO:2000864 {is_inferred="true"} ! regulation of estradiol secretion

[Term]

id: GO:2000866 ! positive regulation of estradiol secretion
 is_a: GO:0032370 {is_inferred="true"} ! positive regulation of lipid transport
 -is_a: GO:0051047 {is_inferred="true"} ! positive regulation of secretion
 +is_a: GO:0046887 {is_inferred="true"} ! positive regulation of hormone secretion
 is_a: GO:2000864 {is_inferred="true"} ! regulation of estradiol secretion

[Term]

id: GO:2000867 ! regulation of estrone secretion
 is_a: GO:0032368 {is_inferred="true"} ! regulation of lipid transport
 -is_a: GO:0051046 {is_inferred="true"} ! regulation of secretion
 +is_a: GO:0046883 {is_inferred="true"} ! regulation of hormone secretion
 +is_a: GO:2001023 {is_inferred="true"} ! regulation of response to drug

[Term]

id: GO:2000868 ! negative regulation of estrone secretion
 is_a: GO:0032369 {is_inferred="true"} ! negative regulation of lipid transport
 -is_a: GO:0051048 {is_inferred="true"} ! negative regulation of secretion
 +is_a: GO:0046888 {is_inferred="true"} ! negative regulation of hormone secretion
 is_a: GO:2000867 {is_inferred="true"} ! regulation of estrone secretion
 +is_a: GO:2001024 {is_inferred="true"} ! negative regulation of response to drug

[Term]

id: GO:2000869 ! positive regulation of estrone secretion
 is_a: GO:0032370 {is_inferred="true"} ! positive regulation of lipid transport
 -is_a: GO:0051047 {is_inferred="true"} ! positive regulation of secretion
 +is_a: GO:0046887 {is_inferred="true"} ! positive regulation of hormone secretion
 is_a: GO:2000867 {is_inferred="true"} ! regulation of estrone secretion
 +is_a: GO:2001025 {is_inferred="true"} ! positive regulation of response to drug

+

+ [Term]

+id: GO:2000870 ! regulation of progesterone secretion
 +is_a: GO:2001023 {is_inferred="true"} ! regulation of response to drug

+

+ [Term]

+id: GO:2000871 ! negative regulation of progesterone secretion
 +is_a: GO:2001024 {is_inferred="true"} ! negative regulation of response to drug

+

+ [Term]

+id: GO:2000872 ! positive regulation of progesterone secretion
 +is_a: GO:2001025 {is_inferred="true"} ! positive regulation of response to drug

[Term]

id: GO:2000873 ! regulation of histone H4 acetylation involved in response to DNA damage stimulus

@@ -96965,6 +105342,7 @@

id: GO:2000884 ! glucomannan catabolic process
is_a: GO:0000272 {is_inferred="true"} ! polysaccharide catabolic process
is_a: GO:0010391 {is_inferred="true"} ! glucomannan metabolic process
+is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process

[Term]

id: GO:2000885 ! galactoglucomannan catabolic process
@@ -97034,6 +105412,7 @@

[Term]

id: GO:2000898 ! regulation of glucomannan catabolic process
+is_a: GO:0031329 {is_inferred="true"} ! regulation of cellular catabolic process
is_a: GO:0032881 {is_inferred="true"} ! regulation of polysaccharide metabolic process
is_a: GO:0043470 {is_inferred="true"} ! regulation of carbohydrate catabolic process

@@ -97080,8 +105459,8 @@

[Term]

id: GO:2000907 ! negative regulation of glucomannan catabolic process
-is_a: GO:0009895 {is_inferred="true"} ! negative regulation of catabolic process
is_a: GO:0010605 {is_inferred="true"} ! negative regulation of macromolecule metabolic process
+is_a: GO:0031330 {is_inferred="true"} ! negative regulation of cellular catabolic process
is_a: GO:0045912 {is_inferred="true"} ! negative regulation of carbohydrate metabolic process
is_a: GO:2000898 {is_inferred="true"} ! regulation of glucomannan catabolic process

@@ -97603,14 +105982,14 @@

[Term]

id: GO:2001004 ! negative regulation of pectin catabolic process
-is_a: GO:0009895 {is_inferred="true"} ! negative regulation of catabolic process
is_a: GO:0010605 {is_inferred="true"} ! negative regulation of macromolecule metabolic process
+is_a: GO:0031330 {is_inferred="true"} ! negative regulation of cellular catabolic process
is_a: GO:2001003 {is_inferred="true"} ! regulation of pectin catabolic process

[Term]

id: GO:2001005 ! positive regulation of pectin catabolic process
-is_a: GO:0009896 {is_inferred="true"} ! positive regulation of catabolic process
is_a: GO:0010604 {is_inferred="true"} ! positive regulation of macromolecule metabolic process
+is_a: GO:0031331 {is_inferred="true"} ! positive regulation of cellular catabolic process
is_a: GO:2001003 {is_inferred="true"} ! regulation of pectin catabolic process

[Term]

@@ -97884,6 +106263,7 @@

[Term]

id: GO:2001063 ! glucomannan binding
+is_a: GO:0008144 {is_inferred="true"} ! drug binding
is_a: GO:0010297 {is_inferred="true"} ! heteropolysaccharide binding

[Term]

@@ -98137,6 +106517,7 @@

[Term]

id: GO:2001121 ! coenzyme gamma-F420-2 biosynthetic process
+is_a: GO:0009108 {is_inferred="true"} ! coenzyme biosynthetic process
is_a: GO:0018130 {is_inferred="true"} ! heterocycle biosynthetic process
is_a: GO:0052649 {is_inferred="true"} ! coenzyme gamma-F420-2 metabolic process
is_a: GO:0072351 {is_inferred="true"} ! tricarboxylic acid biosynthetic process
@@ -98199,6 +106580,7 @@
id: GO:2001132 ! methane biosynthetic process from 3-(methylthio)propionic acid

is_a: GO:0006631 {is_inferred="true"} ! fatty acid metabolic process
 is_a: GO:0006790 {is_inferred="true"} ! sulfur compound metabolic process
 +is_a: GO:0009404 {is_inferred="true"} ! toxin metabolic process
 is_a: GO:0015948 {is_inferred="true"} ! methanogenesis

[Term]

@@ -98209,6 +106591,8 @@

[Term]

id: GO:2001134 ! methane biosynthetic process from carbon monoxide
 is_a: GO:0015948 {is_inferred="true"} ! methanogenesis
 +is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
 +is_a: GO:0042133 {is_inferred="true"} ! neurotransmitter metabolic process

[Term]

id: GO:2001135 ! regulation of endocytic recycling
 @@ -98251,6 +106635,8 @@

[Term]

id: GO:2001142 ! nicotinate transport
 is_a: GO:0015718 {is_inferred="true"} ! monocarboxylic acid transport
 +is_a: GO:0015893 {is_inferred="true"} ! drug transport
 +is_a: GO:0051180 {is_inferred="true"} ! vitamin transport
 is_a: GO:0071705 {is_inferred="true"} ! nitrogen compound transport

[Term]

@@ -98666,6 +107052,7 @@

[Term]

id: GO:2001227 ! quercitrin binding
 +is_a: GO:0008144 {is_inferred="true"} ! drug binding
 is_a: GO:0043168 {is_inferred="true"} ! anion binding
 is_a: GO:0097243 {is_inferred="true"} ! flavonoid binding

@@ -98985,12 +107372,16 @@

[Term]

id: GO:2001291 ! codeine metabolic process
 +is_a: GO:0006805 {is_inferred="true"} ! xenobiotic metabolic process
 +is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
 is_a: GO:0033076 {is_inferred="true"} ! isoquinoline alkaloid metabolic process
 is_a: GO:0097164 {is_inferred="true"} ! ammonium ion metabolic process
 is_a: GO:1901376 {is_inferred="true"} ! organic heteropentacyclic compound metabolic process

[Term]

id: GO:2001292 ! codeine catabolic process
 +is_a: GO:0042178 {is_inferred="true"} ! xenobiotic catabolic process
 +is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
 is_a: GO:0071274 {is_inferred="true"} ! isoquinoline alkaloid catabolic process
 is_a: GO:1901377 {is_inferred="true"} ! organic heteropentacyclic compound catabolic process
 is_a: GO:2001291 {is_inferred="true"} ! codeine metabolic process
 @@ -99086,11 +107477,13 @@

[Term]

id: GO:2001308 ! gliotoxin metabolic process
 is_a: GO:0006518 {is_inferred="true"} ! peptide metabolic process
 is_a: GO:0006790 {is_inferred="true"} ! sulfur compound metabolic process
 +is_a: GO:0017144 {is_inferred="true"} ! drug metabolic process
 is_a: GO:0046483 {is_inferred="true"} ! heterocycle metabolic process
 is_a: GO:1901360 {is_inferred="true"} ! organic cyclic compound metabolic process

[Term]

id: GO:2001309 ! gliotoxin catabolic process
 +is_a: GO:0042737 {is_inferred="true"} ! drug catabolic process
 is_a: GO:0043171 {is_inferred="true"} ! peptide catabolic process
 is_a: GO:0044273 {is_inferred="true"} ! sulfur compound catabolic process
 is_a: GO:0046700 {is_inferred="true"} ! heterocycle catabolic process
 @@ -99151,6 +107544,10 @@
 is_a: GO:2001316 {is_inferred="true"} ! kojic acid metabolic process

```

[Term]
+id: GOCHE:22582 ! substance with antibiotic application
+is_a: GOCHE:27026 {is_inferred="true"} ! substance with toxin biological role
+
+[Term]
id: GOCHE:22676 ! substance with auxin biological role
is_a: GOCHE:37848 {is_inferred="true"} ! substance with phytohormone biological role

@@ -99163,10 +107560,19 @@
is_a: CHEBI:24431 {is_inferred="true"} ! chemical entity

[Term]
+id: GOCHE:26672 ! substance with siderophore chemical property
+is_a: GOCHE:23357 {is_inferred="true"} ! substance with cofactor biological role
+
+[Term]
id: GOCHE:27314 ! substance with water-soluble vitamin biological role
is_a: GOCHE:33229 {is_inferred="true"} ! substance with vitamin biological role

[Term]
+id: GOCHE:33229 ! substance with vitamin biological role
+is_a: GOCHE:33284 {is_inferred="true"} ! substance with nutrient biological role
+is_a: GOCHE:52206 {is_inferred="true"} ! substance with biochemical biological role
+
+[Term]
id: GOCHE:33232 ! substance with application
is_a: CHEBI:24431 {is_inferred="true"} ! chemical entity

@@ -99175,8 +107581,13 @@
is_a: GOCHE:25944 {is_inferred="true"} ! substance with pesticide application

[Term]
+id: GOCHE:35222 ! substance with inhibitor chemical property
+is_a: GOCHE:24432 {is_inferred="true"} ! substance with biological role
+
+[Term]
id: GOCHE:35457 ! substance with peptidyl-dipeptidase A inhibitor application
is_a: GOCHE:23888 {is_inferred="true"} ! substance with drug application
+is_a: GOCHE:23924 {is_inferred="true"} ! substance with enzyme inhibitor chemical
property

[Term]
id: GOCHE:37848 ! substance with phytohormone biological role
@@ -99196,6 +107607,10 @@
is_a: CHEBI:24431 {is_inferred="true"} ! chemical entity

[Term]
+id: GOCHE:59897 ! substance with reverse transcriptase inhibitor chemical property
+is_a: GOCHE:33281 {is_inferred="true"} ! substance with antimicrobial agent
application
+
+[Term]
id: PR:000000001 ! protein
is_a: CHEBI:33695 {is_inferred="true"} ! information biomacromolecule

commit e4aca7cbc4a0b60da0a01c0ea930fd868c28a5d8
Merge: 42dd4ad e3ef13d
Author: pgaudet

```

e4aca7cbc4a0b60da0a01c0ea930fd868c28a5d8: pgaudet ADD: 0

DEL: 0 terms: 0

Date: 2017-11-27 18:02:36 +0100

Merge pull request #14653 from geneontology/11902-2

changes in entailments

commit 22f4a3919c00543dd350376394a10667dd16a43e
Author: dosumis

22f4a3919c00543dd350376394a10667dd16a43e: dosumis ADD: 26 DEL: 5 terms: 37

Date: 2017-11-27 11:38:40 +0000

Fixes geneontology/synapse#182

changes in entailments

```
--- go_inferences.obo-previous 2017-11-27 02:46:37.000000000 -0800
+++ go_inferences.obo 2017-11-27 05:46:36.887638701 -0800
@@ -43077,8 +43077,7 @@
```

[Term]

```
id: GO:0050804 ! modulation of chemical synaptic transmission
-is_a: GO:0010646 {is_inferred="true"} ! regulation of cell communication
-is_a: GO:0023051 {is_inferred="true"} ! regulation of signaling
+is_a: GO:0099177 {is_inferred="true"} ! regulation of trans-synaptic signaling
```

[Term]

```
id: GO:0050805 ! negative regulation of synaptic transmission
@@ -48414,11 +48413,13 @@
id: GO:0061001 ! regulation of dendritic spine morphogenesis
is_a: GO:0048814 {is_inferred="true"} ! regulation of dendrite morphogenesis
is_a: GO:0060998 {is_inferred="true"} ! regulation of dendritic spine development
+is_a: GO:0099175 {is_inferred="true"} ! regulation of postsynapse organization
```

[Term]

```
id: GO:0061002 ! negative regulation of dendritic spine morphogenesis
is_a: GO:0050774 {is_inferred="true"} ! negative regulation of dendrite morphogenesis
is_a: GO:0061001 {is_inferred="true"} ! regulation of dendritic spine morphogenesis
+is_a: GO:1905809 {is_inferred="true"} ! negative regulation of synapse organization
```

[Term]

```
id: GO:0061003 ! positive regulation of dendritic spine morphogenesis
@@ -55138,6 +55139,10 @@
is_a: GO:0098796 {is_inferred="true"} ! membrane protein complex
```

[Term]

```
+id: GO:0072553 ! terminal button organization
+is_a: GO:0099172 {is_inferred="true"} ! presynapse organization
+
```

+ [Term]

```
id: GO:0072560 ! type B pancreatic cell maturation
is_a: GO:0002071 {is_inferred="true"} ! glandular epithelial cell maturation
```

```
@@ -58522,6 +58527,7 @@
```

[Term]

```
id: GO:0097061 ! dendritic spine organization
+is_a: GO:0099173 {is_inferred="true"} ! postsynapse organization
is_a: GO:0106027 {is_inferred="true"} ! neuron projection organization
```

[Term]

```
@@ -60735,6 +60741,7 @@
```

[Term]

```
id: GO:0099054 ! presynapse assembly
```

```
is_a: GO:0022607 {is_inferred="true"} ! cellular component assembly
+is_a: GO:0099172 {is_inferred="true"} ! presynapse organization

[Term]
id: GO:0099055 ! integral component of postsynaptic membrane
@@ -60804,6 +60811,7 @@
[Term]
id: GO:0099068 ! postsynapse assembly
is_a: GO:0022607 {is_inferred="true"} ! cellular component assembly
+is_a: GO:0099173 {is_inferred="true"} ! postsynapse organization

[Term]
id: GO:0099069 ! synaptic vesicle tethering involved in synaptic vesicle exocytosis
@@ -61070,6 +61078,7 @@
[Term]
id: GO:0099150 ! regulation of postsynaptic specialization assembly
is_a: GO:0051963 {is_inferred="true"} ! regulation of synapse assembly
+is_a: GO:0099175 {is_inferred="true"} ! regulation of postsynapse organization
is_a: GO:1902115 {is_inferred="true"} ! regulation of organelle assembly

[Term]
@@ -61118,6 +61127,10 @@
is_a: GO:0098693 {is_inferred="true"} ! regulation of synaptic vesicle cycle

[Term]
+id: GO:0099163 ! synaptic signaling by nitric oxide
+is_a: GO:0099536 {is_inferred="true"} ! synaptic signaling
+
+[Term]
id: GO:0099164 ! postsynaptic specialization membrane of symmetric synapse
is_a: GO:0099634 {is_inferred="true"} ! postsynaptic specialization membrane

@@ -61152,6 +61165,40 @@
is_a: GO:0050804 {is_inferred="true"} ! modulation of chemical synaptic transmission

[Term]
+id: GO:0099172 ! presynapse organization
+is_a: GO:0016043 {is_inferred="true"} ! cellular component organization
+
+[Term]
+id: GO:0099173 ! postsynapse organization
+is_a: GO:0016043 {is_inferred="true"} ! cellular component organization
+
+[Term]
+id: GO:0099174 ! regulation of presynapse organization
+is_a: GO:0050807 {is_inferred="true"} ! regulation of synapse organization
+
+[Term]
+id: GO:0099175 ! regulation of postsynapse organization
+is_a: GO:0050807 {is_inferred="true"} ! regulation of synapse organization
+
+[Term]
+id: GO:0099176 ! regulation of retrograde trans-synaptic signaling by trans-synaptic
protein complex
+is_a: GO:0099177 {is_inferred="true"} ! regulation of trans-synaptic signaling
+
+[Term]
+id: GO:0099177 ! regulation of trans-synaptic signaling
+is_a: GO:0010646 {is_inferred="true"} ! regulation of cell communication
+is_a: GO:0023051 {is_inferred="true"} ! regulation of signaling
+
+[Term]
+id: GO:0099178 ! regulation of retrograde trans-synaptic signaling by endocannabinoid
+is_a: GO:0099177 {is_inferred="true"} ! regulation of trans-synaptic signaling
+
+[Term]
+id: GO:0099179 ! regulation of synaptic membrane adhesion
```


+is_a: GO:0022407 {is_inferred="true"} ! regulation of cell-cell adhesion
+is_a: GO:0050807 {is_inferred="true"} ! regulation of synapse organization
+
+[Term]
id: GO:0099240 ! intrinsic component of synaptic membrane
is_a: GO:0031226 {is_inferred="true"} ! intrinsic component of plasma membrane
is_a: GO:0044456 {is_inferred="true"} ! synapse part
@@ -61263,6 +61310,10 @@
is_a: GO:0099510 {is_inferred="true"} ! calcium ion binding involved in regulation of cytosolic calcium ion concentration

[Term]
+id: GO:0099538 ! synaptic signaling via neuropeptide
+is_a: GO:0099536 {is_inferred="true"} ! synaptic signaling
+
+[Term]
id: GO:0099539 ! neuropeptide secretion from presynapse
is_a: GO:0002790 {is_inferred="true"} ! peptide secretion

@@ -61279,6 +61330,10 @@
is_a: GO:0050804 {is_inferred="true"} ! modulation of chemical synaptic transmission

[Term]
+id: GO:0099548 ! trans-synaptic signaling by nitric oxide
+is_a: GO:0099163 {is_inferred="true"} ! synaptic signaling by nitric oxide
+
+[Term]
id: GO:0099550 ! trans-synaptic signaling, modulating synaptic transmission
is_a: GO:0050804 {is_inferred="true"} ! modulation of chemical synaptic transmission

@@ -77270,12 +77325,14 @@

[Term]
id: GO:1902950 ! regulation of dendritic spine maintenance
+is_a: GO:0099175 {is_inferred="true"} ! regulation of postsynapse organization
is_a: GO:0120035 {is_inferred="true"} ! regulation of plasma membrane bounded cell projection organization

[Term]
id: GO:1902951 ! negative regulation of dendritic spine maintenance
is_a: GO:0031345 {is_inferred="true"} ! negative regulation of cell projection organization
is_a: GO:1902950 {is_inferred="true"} ! regulation of dendritic spine maintenance
+is_a: GO:1905809 {is_inferred="true"} ! negative regulation of synapse organization

[Term]
id: GO:1902952 ! positive regulation of dendritic spine maintenance
@@ -89087,8 +89144,7 @@

[Term]
id: GO:1905432 ! regulation of retrograde trans-synaptic signaling by neuropeptide
-is_a: GO:0010646 {is_inferred="true"} ! regulation of cell communication
-is_a: GO:0023051 {is_inferred="true"} ! regulation of signaling
+is_a: GO:0099177 {is_inferred="true"} ! regulation of trans-synaptic signaling

[Term]
id: GO:1905433 ! negative regulation of retrograde trans-synaptic signaling by neuropeptide
@@ -89905,6 +89961,7 @@

[Term]
id: GO:1905606 ! regulation of presynapse assembly
is_a: GO:0051963 {is_inferred="true"} ! regulation of synapse assembly
+is_a: GO:0099174 {is_inferred="true"} ! regulation of presynapse organization

[Term]
id: GO:1905607 ! negative regulation of presynapse assembly
@@ -94292,7 +94349,7 @@

[Term]

id: GO:2000331 ! regulation of terminal button organization
-is_a: GO:0050807 {is_inferred="true"} ! regulation of synapse organization
+is_a: GO:0099174 {is_inferred="true"} ! regulation of presynapse organization

[Term]

id: GO:2000332 ! regulation of blood microparticle formation
commit a76228b4609b557889ee1e60955638c7b15ae043
Author: Pascale Gaudet

a76228b4609b557889ee1e60955638c7b15ae043: Pascale Gaudet
ADD: 0 DEL: 0 terms: 0

Date: 2017-11-27 11:30:01 +0100

obsoleted term fixes #14616

changes in entailments

commit a4ff439759d6c6a263726f1182d03e8a31ba2791
Merge: d383afa 575d297
Author: pgaudet

Generated by: ./markup-inference-diffs.pl
Generated for date: 2017-11-27
Generated on : Mon Nov 27 23:56:09 PST 2017
Questions : cjmungall AT lbl DOT gov

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<https://mailman.stanford.edu/mailman/listinfo/go-ontology>