

# Release Notes for BAO version 2.8.8

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Release Date: September 8, 2023

## About BAO

The BioAssay Ontology (BAO) has been developed to formally describe biological screening assays and their results including high-throughput screening (HTS) data; specifically in the domain of small molecule drug and probe development. BAO enables categorization of assays and results by based on several concepts that are important to interpret and analyze screening data with the goal to infer the mechanism of action of small molecules based on the known aggregate screening results from many assays.

## Changes in BAO v 2.8.8

### Add BAO classes

File Module	BAO ID	BAO label
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vocabulary_assay	BAO_0013019	clearance
vocabulary_assay	BAO_0013020	CLint
vocabulary_format	BAO_0020011	blood format
vocabulary_result	BAO_0080048	fraction metabolised

### Add external class

Partition Coefficient ([http://purl.obolibrary.org/obo/NCIT\\_C20610](http://purl.obolibrary.org/obo/NCIT_C20610))

### Update label

UGT chemical inhibition | new label : UGT chemical inhibition assay

CYP chemical inhibition | new label : CYP chemical inhibition assay

CYP reaction phenotyping | new label : CYP reaction phenotyping assay

### Add synonym

S9 fraction format, add synonym : S9 format

### Add axioms

label 1	property	cardinality	label 2
blood to plasma ratio assay	has assay format	some	blood format
CYP reaction phenotyping	has assay format	some	S9 fraction format
S9 stability assay	has assay format	some	S9 fraction format
CYP chemical inhibition	has endpoint	some	fraction metabolised

<b>label 1</b>	<b>property</b>	<b>cardinality</b>	<b>label 2</b>
CYP metabolite formation kinetics	has endpoint	some	fraction metabolised
CYP reaction phenotyping	has endpoint	some	fraction metabolised
hepatocyte relay assay	has endpoint	some	fraction metabolised
hepatocyte stability assay	has endpoint	some	CLint
microsomal stability assay	has endpoint	some	CLint
tissue binding assay	has endpoint	some	Partition Coefficient
BCRP inhibition assay	has assay design method	some	liquid chromatography
BCRP substrate assay	has assay design method	some	liquid chromatography
biliary excretion assay	has assay design method	some	liquid chromatography
blood to plasma ratio assay	has assay design method	some	liquid chromatography
CYP3A4 induction assay	has assay design method	some	liquid chromatography
hepatocyte low clearance relay assay	has assay design method	some	liquid chromatography
MAO reaction phenotyping assay	has assay design method	some	liquid chromatography
mass balance assay	has assay design method	some	liquid chromatography
MATE1 inhibition assay	has assay design method	some	liquid chromatography
MATE1 substrate assay	has assay design method	some	liquid chromatography
metabolite identification and profiling assay	has assay design method	some	liquid chromatography

<b>label 1</b>	<b>property</b>	<b>cardinality</b>	<b>label 2</b>
human mammary epithelial cell permeability assay	has assay design method	some	liquid chromatography
monoamine oxidase inhibition assay	has assay design method	some	liquid chromatography
MRP2 inhibition assay	has assay design method	some	liquid chromatography
MRP2 substrate assay	has assay design method	some	liquid chromatography
OAT1 inhibition assay	has assay design method	some	liquid chromatography
OAT1 substrate assay	has assay design method	some	liquid chromatography
OAT2 inhibition assay	has assay design method	some	liquid chromatography
OAT2 substrate assay	has assay design method	some	liquid chromatography
OAT3 inhibition assay	has assay design method	some	liquid chromatography
OAT3 substrate assay	has assay design method	some	liquid chromatography
OATP1B1 inhibition assay	has assay design method	some	liquid chromatography
OATP1B1 substrate assay	has assay design method	some	liquid chromatography
OATP1B3 inhibition assay	has assay design method	some	liquid chromatography
OATP1B3 substrate assay	has assay design method	some	liquid chromatography
OATP2B1 substrate assay	has assay design method	some	liquid chromatography
OCT1 inhibition assay	has assay design method	some	liquid chromatography

label 1	property	cardinality	label 2
OCT1 substrate assay	has assay design method	some	liquid chromatography
placental transfer assay	has assay design method	some	liquid chromatography
renal excretion assay	has assay design method	some	liquid chromatography
simulated intestinal fluid stability assay	has assay design method	some	liquid chromatography

### Github

<https://github.com/BioAssayOntology/BAO/issues/67>  
<https://github.com/BioAssayOntology/BAO/issues/99>  
<https://github.com/BioAssayOntology/BAO/issues/98>  
<https://github.com/BioAssayOntology/BAO/issues/97>  
<https://github.com/BioAssayOntology/BAO/issues/100>

### Public Location:

<http://www.bioassayontology.org/bao>

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