Valine, leucine and isoleucine degradation -	KEGG Pathway Enrichment: C	ellType								
Proteoglycans in cancer-										
Cellular senescence - Human papillomavirus infection -										
Endocytosis -										
Tryptophan metabolism -										
RNA degradation -										
Hippo signaling pathway – multiple species -  Apelin signaling pathway -										
Protein processing in endoplasmic reticulum - Signaling pathways regulating pluripotency of stem cells										
Propanoate metabolism										
Breast cancer-										
Aldosterone synthesis and secretion - Synaptic vesicle cycle -										
Long-term potentiation -										
Amphetamine addiction -										
Gastric acid secretion -  Circadian entrainment -										
Inflammatory mediator regulation of TRP channels										
Retrograde endocannabinoid signaling -										
Glutamatergic synapse -										
Axon guidance										
MAPK signaling pathway -										
GABAergic synapse - Hepatocellular carcinoma -										
cAMP signaling pathway -  Dopaminergic synapse -										
Nicotine addiction - Oxytocin signaling pathway -										
Oxytocin signaling pathway -										
Wnt signaling pathway -  Maturity onset diabetes of the young -										
Glioma - Arrhythmogenic right ventricular cardiomyopathy (ARVC) -										
FoxO signaling pathway										
Cushing's syndrome - Gastric cancer -										
Cholinergic synapse -										
Melanogenesis - Gap junction -										
Basal cell carcinoma										
cGMP-PKG signaling pathway -										
Cardiac muscle contraction - Dilated cardiomyopathy (DCM) -										
HTLV-I infection -  Chronic myeloid leukemia -										
Cocaine addiction										p.adjust
Long-term depression - ErbB signaling pathway -										0.04 0.03 0.02 0.01 GeneRatio 0.025
Type II diabetes mellitus - Non-small cell lung cancer-										<ul><li>0.050</li><li>0.075</li><li>0.100</li><li>0.125</li></ul>
Melanoma -										
Pathogenic Escherichia coli infection -										
Longevity regulating pathway – multiple species -  Viral carcinogenesis -										
Hypertrophic cardiomyopathy (HCM)										
Aldosterone-regulated sodium reabsorption-										
Regulation of lipolysis in adipocytes -										
Adherens junction - Estrogen signaling pathway -										
Hepatitis B - Bacterial invasion of epithelial cells										
Small cell lung cancer-										
Serotonergic synapse -										
Alzheimer's disease -										
Hedgehog signaling pathway - Cell cycle -										
Oocyte meiosis										
Alcoholism - PI3K-Akt signaling pathway -										
Colorectal cancer-										
Endocrine resistance - Sphingolipid signaling pathway -										
Sphingolipid signaling pathway -										
Rap1 signaling pathway - Thermogenesis -										
Choline metabolism in cancer-										
Parkinson's disease - Vascular smooth muscle contraction -										
Insulin resistance										
Glycosaminoglycan biosynthesis – heparan sulfate / heparin -										
Purine metabolism - Synthesis and degradation of ketone bodies -										
Ubiquitin mediated proteolysis -										
TGF-beta signaling pathway										
Fluid shear stress and atherosclerosis - Th1 and Th2 cell differentiation -										
Regulation of actin cytoskeleton -										
AGE-RAGE signaling pathway in diabetic complications										
Fc gamma R-mediated phagocytosis -  Notch signaling pathway -										
Neuroactive ligand-receptor interaction - Glycosphingolipid biosynthesis – ganglio series -										
GnRH signaling pathway -  Mucin type O–glycan biosynthesis -										
Cortisol synthesis and secretion -  Glucagon signaling pathway-										
Glucagon signaling pathway - Oxidative phosphorylation -										
Non-alcoholic fatty liver disease (NAFLD)	PnotN (2851)	NnotP sha (46) (3	redPN Pr 813) (30	otG shar 034) (6	edPG Gr 28) (1	notN Nn 151) (3	otG shar 69) (4	edGN allsh	nared 88)	

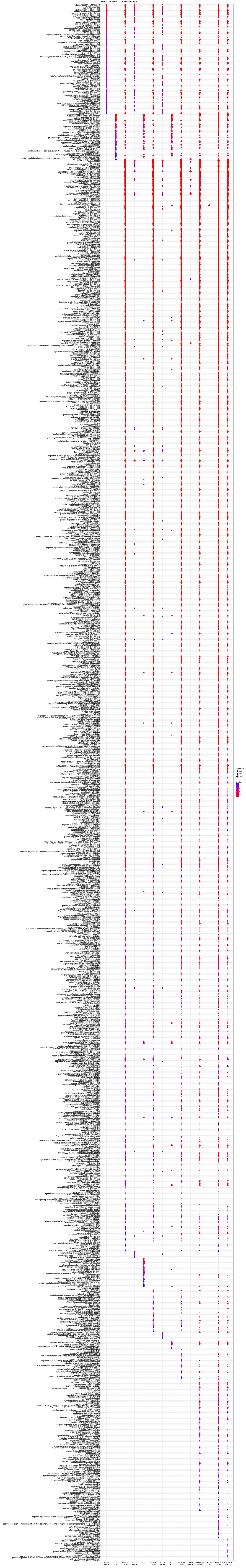
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transferase activity, transferring one-carbon groups - methyltransferase activity -	Molecular Function	GO Enric	chment: CellType						
catalytic activity, acting on a tRNA-S-adenosylmethionine-dependent methyltransferase activity-protein serine/threonine kinase activity-Rho guanyl-nucleotide exchange factor activity-									
Wnt-protein binding - protein methyltransferase activity - Rho GTPase binding - guanyl-nucleotide exchange factor activity -									
nucleotide diphosphatase activity - coenzyme binding - Ras guanyl-nucleotide exchange factor activity - catalytic activity, acting on RNA -									
phosphatidylinositol binding -  ligase activity -  tRNA methyltransferase activity -									
ubiquitin-like protein binding - ubiquitin binding - ubiquitin-like protein ligase binding - exonuclease activity -									
ubiquitin–like protein transferase activity -  N-methyltransferase activity -  ubiquitin protein ligase binding -  MAP kinase kinase kinase activity -									
SH3 domain binding -  nuclease activity -  ligase activity, forming carbon-nitrogen bonds -									
cofactor binding - ubiquitin-protein transferase activity - 3'-5' exonuclease activity - histone acetyltransferase binding -									
transcriptional activator activity, RNA polymerase II transcription regulatory region sequence–specific binding- transcription factor activity, RNA polymerase II core promoter proximal region sequence–specific binding- transcriptional activator activity, RNA polymerase II core promoter proximal region sequence–specific binding- core promoter proximal region DNA binding-									
core promoter proximal region sequence–specific DNA binding- RNA polymerase II core promoter proximal region sequence–specific DNA binding- transcriptional repressor activity, RNA polymerase II transcription regulatory region sequence–specific binding- transcription corepressor activity-									
transcriptional repressor activity, RNA polymerase II core promoter proximal region sequence–specific binding- transcription factor activity, RNA polymerase II transcription factor binding- transcription factor activity, RNA polymerase II distal enhancer sequence–specific binding-									
enhancer binding- protein heterodimerization activity- core promoter binding- HMG box domain binding-									
transcription coactivator activity- core promoter sequence–specific DNA binding- enhancer sequence–specific DNA binding- gated channel activity-									
transcriptional activator activity, RNA polymerase II transcription factor binding -  RNA polymerase II transcription cofactor activity -  ion channel binding -  E-box binding -									
RNA polymerase II transcription coactivator activity - extracellularly glutamate-gated ion channel activity - beta-catenin binding -									
activating transcription factor binding- protein kinase regulator activity- glutamate receptor activity-  RNA polymerase II core promoter sequence–specific DNA binding-									
SMAD binding - bHLH transcription factor binding - histone deacetylase binding - kinase regulator activity -									
GABA receptor activity -  RNA polymerase II activating transcription factor binding -  ionotropic glutamate receptor activity -									
transcription factor activity, RNA polymerase II core promoter sequence-specific- chromatin DNA binding- mRNA 3'-UTR binding- ion channel activity-									
transcriptional repressor activity, RNA polymerase II transcription factor binding- tubulin binding- RNA polymerase II transcription factor binding- substrate-specific channel activity-									
metal ion transmembrane transporter activity - voltage-gated ion channel activity - voltage-gated channel activity -									
voltage-gated cation channel activity - channel activity - passive transmembrane transporter activity - pre-mRNA binding -									
RNA polymerase II transcription corepressor activity -  GABA-A receptor activity -  microtubule binding -  protein serine/threonine kinase inhibitor activity -									
extracellular ligand-gated ion channel activity- steroid hormone receptor activity- neurotransmitter receptor activity- cation channel activity-									
RNA polymerase II distal enhancer sequence–specific DNA binding- ligand–gated ion channel activity- ligand–gated channel activity-									
voltage-gated calcium channel activity-  PDZ domain binding-  adrenergic receptor binding-  cell adhesion molecule binding-									
translation regulator activity -  protein kinase inhibitor activity -  glutamate receptor binding -  3',5'-cyclic-AMP phosphodiesterase activity -									
ionotropic glutamate receptor binding -  transmitter-gated ion channel activity -  transmitter-gated channel activity -  calcium ion transmembrane transporter activity -									
high voltage-gated calcium channel activity- neurexin family protein binding- cyclin-dependent protein serine/threonine kinase regulator activity-									GeneRatio
kinase inhibitor activity - insulin receptor binding -  WW domain binding -  protein serine/threonine/tyrosine kinase activity -									● 0.03 ● 0.06 ● 0.09 p.adjust - 0.04 - 0.03 - 0.02 - 0.01
potassium ion transmembrane transporter activity - divalent inorganic cation transmembrane transporter activity - histone binding - nuclear hormone receptor binding -									
nuclear receptor activity- transcription factor activity, direct ligand regulated sequence–specific DNA binding- histone demethylase activity- ephrin receptor binding-									
protein kinase activator activity -  translation repressor activity, nucleic acid binding -  protein kinase A catalytic subunit binding -									
hormone receptor binding-  DNA binding, bending-  lysine-acetylated histone binding-  acetylation-dependent protein binding-									
translation regulator activity, nucleic acid binding- calcium channel activity- potassium channel activity- transcriptional activator activity, RNA polymerase II distal enhancer sequence–specific binding-									
translation repressor activity -  MAP kinase kinase kinase kinase activity -  dynactin binding -  channel regulator activity -									
protein kinase A binding- transmembrane receptor protein tyrosine phosphatase activity- insulin-like growth factor receptor binding-									
transmembrane receptor protein phosphatase activity- structural constituent of cytoskeleton- ubiquitin-like protein ligase activity- ubiquitin protein ligase activity-									
GDP binding - phosphatidylinositol phosphate binding - steroid hormone receptor binding - cadherin binding -									
voltage-gated potassium channel activity -  heat shock protein binding -  outward rectifier potassium channel activity -									
exonuclease activity, active with either ribo- or deoxyribonucleic acids and producing 5'-phosphomonoesters-  tRNA binding-  phosphoric ester hydrolase activity-  acetylgalactosaminyltransferase activity-									
ATPase activity - ligand-dependent nuclear receptor transcription coactivator activity - lysine N-methyltransferase activity - ATPase regulator activity -									
protein-lysine N-methyltransferase activity- microtubule motor activity- exoribonuclease activity, producing 5'-phosphomonoesters- NADP binding-									
tau protein binding - transferase activity, transferring nitrogenous groups - neurotrophin receptor binding - co-SMAD binding -									
protein tyrosine kinase activity- frizzled binding- gamma-catenin binding- transmembrane receptor protein kinase activity-									
demethylase activity - kinase activator activity - repressing transcription factor binding -									
intronic transcription regulatory region sequence-specific DNA binding- intronic transcription regulatory region DNA binding- cyclin-dependent protein serine/threonine kinase inhibitor activity- sodium:amino acid symporter activity-									
R-SMAD binding -  deacetylase activity -  cation:amino acid symporter activity -  protein serine/threonine kinase activator activity -									
disordered domain specific binding- signal transducer activity, downstream of receptor- histone deacetylase activity- protein deacetylase activity-									
calmodulin binding - ligand-gated cation channel activity - purine ribonucleoside binding -									
guanyl nucleotide binding - purine nucleoside binding - ribonucleoside binding -									
chloride channel activity - chloride transmembrane transporter activity - nucleoside binding - anion channel activity -									
inorganic anion transmembrane transporter activity - excitatory extracellular ligand-gated ion channel activity - kinesin binding - actin binding -									
monovalent inorganic cation transmembrane transporter activity - GTP binding - diacylglycerol kinase activity -									
cytoskeletal adaptor activity -  AMP binding -  lipid phosphatase activity -  sodium channel activity -									
sodium channel regulator activity -  ADP binding -  ligand-gated anion channel activity -  transferase activity, transferring glycosyl groups -									
ion channel regulator activity -  delayed rectifier potassium channel activity -  GTPase activity -  phosphatidylserine binding -									
guanylate kinase activity - sialyltransferase activity - postsynaptic neurotransmitter receptor activity -									
GABA receptor binding-single-stranded RNA binding-co-receptor binding-methylated histone binding-									
methylation-dependent protein binding-	PnotN (6921)	shared	IPN PnotG G 3) (7363) (	notP sharedPG G (29) (1465) (3	notN Nr 866) (8	notG sha	•	•	

centrosome - spindle -	hment: CellType						
midbody · nuclear speck ·							
spindle pole centriole							
microtubule organizing center part							
mitochondrial matrix occluding junction							
ubiquitin ligase complex endoribonuclease complex							
endonuclease complex of DNA repair complex of DNA repair complex of DNA repair complex of the DN							
chromosomal region chromosome, centromeric region							
bicellular tight junction - SCF ubiquitin ligase complex -							
cytoplasmic region cytoplasmic removed							
cytopiasmic dynein complex polysome dynein complex							
coated vesicle host							
host cell- nuclear envelope							
cell cortex focal adhesion							
condensed chromosome cis-Golgi network							
RNAi effector complex cell–substrate adherens junction							
Cul4–RING E3 ubiquitin ligase complex other organism							
other organism cell- other organism part-							
invadopodium - microtubule associated complex -							
apical junction complex cell-substrate junction							
endosome membrane - PML body -							
RISC complexed COPII-coated ER to Golgi transport vesicle							
nuclear membrane serine/threonine protein kinase complex							
sex chromosome							
condensed chromosome, centromeric region							
condensed chromosome kinetochore endoplasmic reticulum exit site							
nuclear replication fork ciliary tip							
ciliary tipe tethering complexe protein kinase complexe							
ciliary part							
ribonucleoprotein granule endosomal part							
cytoplasmic ribonucleoprotein granule -							
Golgi–associated vesicle							
replication fork cullin–RING ubiquitin ligase complex							
methyltransferase complex ciliary plasm							
early endosome presynapse				•			
synaptic membrane postsynapse							
presynaptic membrane neuron projection terminus							
axon-							
postsynaptic specialization asymmetric synapse							
neuron to neuron synapse synaptic vesicle							
exocytic vesicle							
axon terminus axon part dendritic shaft							
potassium channel complex - SNARE complex							
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ion channel complexing growth cone- neuron spine- cell body: dendritic spine- site of polarized growth- neuronal cell body: transmembrane transporter complexing transporter complexing ionotropic glutamate receptor complexing excitatory synapse- cell leading edge- neuron projection membrane- nuclear chromatin- AMPA glutamate receptor complexing axolemma calcium channel complexing protein serine/threonine phosphatase complexing phosph							0.05 0.10 0.15  p.adjust 0.04 0.03 0.02
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ion channel complex growth cone- neuron spine- cell body- dendrific spine- site of polarized growth- neuronal cell body transmembrane transporter complex transporter complex ionotropic gluiamate receptor complex conjugation membrane- neurotransmitter receptor complex axcitatory synapse- cell leading edge- neuron projection membrane- nuclear chromatin.  AMPA gluiamate recoptor complex axcilerma: calcium channel complex protein serine/threonine phosphatase complex phosphatase complex leading edge membrane- transcriptional repressor complex leading edge membrane- transcriptional repressor complex presynaptic active zone voitage-gated calcium channel complex receptor complex GABA receptor complex contrals transcription factor complex contrals to the complex contrals transcription factor complex contrals to the complex contrals transcription factor complex contrals to the complex contrals transcription factor complex terminal bouton- dendrite membrane- call-coll contact zone- clathrin-sculpted vesicle GABA-A receptor complex intrinsic component of synaptic vesicle membrane- integral component of synaptic vesicle membrane- main axon- integral component of synaptic vesicle membrane- main axon-							0.05 0.10 0.15  p.adjust 0.04 0.03 0.02
ion channel complex growth cone- neuron spine- cell body dendritic spine- site of polarized growth neuronal cell body- transmembrane transporter complex transporter complex ionotropic glutamate receptor complex neurotransmitter receptor complex excitatory synapse- cell leading edge neuron projection membrane- nuclear chromatin- AMPA glutamate receptor complex axolamma calcium channel complex protein serimethroonine phosphatase complex protein serimethroonine phosphatase complex transcriptional repressor complex presynaptic active zone- transcriptional repressor complex presynaptic active zone- voltage-gated calcium channel complex receptor complex control presynaptic active zone- voltage-gated calcium channel complex receptor complex receptor complex control presynaptic active zone- voltage-gated polassium channel complex receptor complex complex control presynaptic active zone- voltage-gated polassium channel complex receptor complex control presynaptic active zone- voltage-gated polassium channel complex receptor complex complex call-cell contact zone- calcium sculpted vesicle- GABA-A receptor complex heterochromatin- intrinsic component of synaptic vesicle membrane- intrinsic component of synaptic vesicle membrane- main axon-							0.05 0.10 0.15  p.adjust 0.04 0.03 0.02
ion channel complex growth cons- neuron spine call budy. dendrific spine- site of polarized growth nouronal call body. transmembrane transporter complex transporter complex transmembrane transporter complex.  ionotropic glutamate receptor complex cercitatory synapse- cell leading edge- neuron projection membrane nuclear chromatin- AMPA glutamate receptor complex axolemma calcium channel complex protein serine/threonine phosphalase complex phosphalase complex phosphalase complex phosphalase complex presynapsic active zone- transcriptional repressor complex presynapsic active zone- voltage-gated calcium channel complex recaptor complex calcium channel complex presynapsic active zone- voltage-gated polassium channel complex recaptor complex continues complex transcription factor complex to terminal bouton- dendrite membrane- cell-cell contact zone- clathrin-aculpted vesicle- GABA-a receptor complex heterochromatin- intrinsic component of synaptic vesicle membrane- inhibitory synapse- inclusion body- inclusion body- inclusion body- inclusion body-							0.05 0.10 0.15  p.adjust 0.04 0.03 0.02
ion channel complex growth cone- neuron spine cell body dendrific spine site of polarized growth- neuronal cell body.  Itransmembrane transporter complex framsporter complex framsporter complex ionatropic glutamate receptor complex neurotransmitter receptor complex accitatory synapso- cell leading edge- neuron projection membrane- nuclear chromatin- AMPA glutamate receptor complex accitatory synapso- cell leading edge- neuron projection membrane- nuclear chromatin- AMPA glutamate receptor complex accitatory synapso- cell leading edge- neuron projection membrane- gaticium channel complex prosphatase complex prosphatase complex presynaptic active zone- transcriptional repressor complex presynaptic active zone- voltage—gated calcium channel complex receptor complex presynaptic active zone- voltage—gated potassium channel complex receptor complex contract reascription factor complex receptor complex contract reascription factor complex contract reascription factor complex contract complex contract complex terminal bouton- dendrific membrane- cell—cell contact zone- diathrin—soulpsed vesicle- GABA—A receptor complex terminal bouton- dendrific membrane- cell—cell contact zone- diathrin—soulpsed vesicle- GABA—A receptor complex terminal bouton- diathrin—soulpsed vesicle- membrane- cell—cell contact zone- integral component of synaptic vesicle membrane- intrinsic component of synaptic vesicle membrane- intrinsic component of synaptic vesicle membrane- intrinsic component of synaptic vesicle membrane- integral component of synaptic vesicle							0.05 0.10 0.15  p.adjust 0.04 0.03 0.02
ion channel complex growth cone nouron spinor cell body dendritic spine site of pollarized growth neuronal cell body transporter complex transporter complex transporter complex inontricopic glutamate receptor complex excitatory synapse cell leading edge neuron projection membrane nuclear chromatin AMPA glutamate receptor complex assolumnar calcium channel complex protein serrinothreonine phosphalase complex protein serrinothreonine phosphalase complex protein serrinothreonine phosphalase complex prosphalase complex prosphalase complex prosphalase complex prosphalase complex chalance glutamate receptor complex prosphalase complex prosphalase complex prosphalase complex prosphalase complex chalance glutamate receptor complex control protein serrinothreonine phosphalase complex prosphalase glutamate receptor complex complex prosphalase glutamate receptor complex control protein serrinothreonine phosphalase complex prosphalase glutamate receptor complex complex calcium channel complex protein exemptor complex calcium channel complex protein exemptor complex calcium channel complex protein exemptor complex calcium channel complex protein control calcium channel complex protein exemptor complex protein phosphalase complex protein phosphalase complex protein phosphalase vesicle membrane inhibitory synapse inclusion body protein phosphalase copa 2A complex cell projection cytoplasm cell projection cytoplasm cell projection cytoplasm culcium mutitic							0.05 0.10 0.15  p.adjust 0.04 0.03 0.02
ion channel complex growth cone- return spine- cul body- dendritic spine- site of polarized growth neuronal cell body transmembrane transporter complex (transporter complex (tra							0.05 0.10 0.15  p.adjust 0.04 0.03 0.02
ion channel complex growth cone reuron spino cull body.  dendrilla spine alte of polarized growth reuronal cull body.  Ironsementarone kransporter complex Ironsementarone incurrence incurrence incurrence receitarory synapse cell leading edge neuron projection membrane nucloar chromatin AMPA glutamate receptor complex calcium channel complex protein sortinethroonine phosphatase complex phosphatase complex phosphatase complex leading edge membrane transcriptional repressor complex presynaptic active zone transcriptional repressor complex presynaptic active zone voltage—gated calcium channel complex voltage—gated calcium channel complex voltage—gated patastium channel complex voltage—gated patastium channel complex culturin-sculpted vesicle calcium channel complex terminal bouton dendrile membrane cell—cell contact zone culturin-sculpted vesicle calcium channel complex terminal bouton dendrile membrane instination component of synaptic vesicle membrane receptor complex terminal complex culturin sculpted vesicle membrane inclusion body nuclear parphray protein prosphatiase type 2A complex peritaryon protein prosphatiase type 2A complex transport vesicle membrane region culturin complex transport vesicle membrane region peritaryon membrane region culturin complex transport vesicle membrane region culturin complex transport vesicle membrane region membrane region culturin complex transport vesicle membrane region membrane region culturin complex transport vesicle membrane region membrane region culturin complex transport vesicle membrane							● 0.05 ● 0.10 ● 0.15 p.adjust - 0.04 - 0.03 - 0.02
con chemical complexes  growth came:  results supply  dendrice spine  site of potential growth  neutronal cell body  transmembrane transporter complexe  transporter complexes  resultation projection membrane  resultation charmed complexe  societisms  accietisms charmed complexes  protein contractivation phosphatases complexes  protein contractivation phosphatases complexes  projection contractivation phosphatases complexes  projection contractivation phosphatases complexes  transmiptional repressure complexes  projection projection complexes  transmiptional repressure complexes  vollage—gated calcium charmed complexes  vollage—gated calcium charmed complexes  vollage—gated potenciam complexes  call-cold contact zone  resultation complexes  call-cold contact zone  call-c							● 0.05 ● 0.10 ● 0.15 p.adjust - 0.04 - 0.03 - 0.02
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ion chemical complex  growth cone  recursion sprice  (will body)  dendroise sprice  site of potastical uponitiv  site of potastical uponitiv  site of potastical uponitiv  site of potastical uponitiv  state of potasti							● 0.05 ● 0.10 ● 0.15 p.adjust - 0.04 - 0.03 - 0.02
ion channel complex growth come acute complex services and acute complex composition of polarization growth common cell body.  Transporter complex transporter complex transporter complex transporter complex transporter complex controller receptor complex controller receptor complex controller receptor complex realization progration membranes realization progration membranes realization description acute place puration statementors phesiphistical complex prespiração acute acute acute acute prespiração acute acute acute prespiração acute acute acute prespiração acute acute acute prespiração acute acute acute acute prespiração acute acute acute acute prespiração acute acute acute prespiração acute acute acute prespiração acute acute acute acute prespiração acute acute acute prespiração acute acute acute prespiração acute acute acute prespiração acute acute acute acute prespiração acute acute prespiração acute acute prespiração acute prespiração acute pres							● 0.05 ● 0.10 ● 0.15 p.adjust - 0.04 - 0.03 - 0.02
ion channel consider  growth cone  neutron sprine  coli body  condition agains  site of polarized growth  neutron stroll body  transmannotrane interactorie consider  recording agreement interactorie consider  recording agreement interactorie consider  recording agreement interactorie consider  protegnation consider  protegnation according agreement interactorie consider  protegnation according agreement interactorie consider  protegnation according agreement interactories consider  protegnation according agreement interactories consider  protegnation according agreement interactories consider  consideration according agreement interaction according agreement interactories consideration interactories  protegnation according agreement interactories according according agreement interactories according agreement interactor							● 0.05 ● 0.10 ● 0.15 p.adjust - 0.04 - 0.03 - 0.02
ion obtannel complexe growth cone call body.  dend bits spire call body.  dend bits spire due of polarizare growth neurorial cell body.  transmerbhare transporter complexe transmerbhare neuror projection membrane projection extransporter transporter complexe transporter projection membrane projection projection membrane transporter projection membrane transporter projection membrane transporter trans							0.05 0.10 0.15  p.adjust 0.04 0.03 0.02
ion channel complex glocalis care recursor spine call body denominal spine and of posented growth and of posented growth frameworker transporter complex transport complex transpo							● 0.05 ● 0.10 ● 0.15 p.adjust - 0.04 - 0.03 - 0.02
in channel complex  grown const  grown const  col bury  denorm spine  also of social and growth  neutron spine  also of social and growth  neutron of the spine  also of social and growth  neutron of the spine  transformation transporter complex  for other polyation are security complex  for other polyation are security complex  resistant programme is expetity complex  for other polyation are specific more before  resistant polyation are spine  and go dige membrane  provide sectification or programme is expetity complex  socialisms channel complex  provide sectification are programme in the spine  provide sectification are programme in the complex  voltage—gradia potential and complex  social complex voltage  provide programme in the spine							0.05 0.10 0.15  p.adjust 0.04 0.03 0.02
ion channel course.  growth coate.  growth coate.  active or state.  active of poder led growth  transporate compose.  transporate compose.  recursor projection membrane.  recursor projection projection projection growth active projection of projection of projection projection growth active							● 0.05 ● 0.10 ● 0.15 p.adjust - 0.04 - 0.03 - 0.02
provides recommendated and provides and prov							● 0.05 ● 0.10 ● 0.15 p.adjust - 0.04 - 0.03 - 0.02
izan abarrata incurrente  quarratire con receive de la constitución de							● 0.05 ● 0.10 ● 0.15 p.adjust - 0.04 - 0.03 - 0.02
area of the comment.							● 0.05 ● 0.10 ● 0.15 p.adjust - 0.04 - 0.03 - 0.02
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The content of contents of con							● 0.05 ● 0.10 ● 0.15 p.adjust - 0.04 - 0.03 - 0.02
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is all we will an activate of the control of the co							● 0.05 ● 0.10 ● 0.15 p.adjust - 0.04 - 0.03 - 0.02
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thyroid carcinoma-		Enrichment: CellType							
thyroid cancer- breast benign neoplasm-									
thoracic benign neoplasm-									
pulmonary hypertension -									
intellectual disability									
specific developmental disorder-									
pervasive developmental disorder- autism spectrum disorder-									
autistic disorder-									
epilepsy syndrome- bipolar disorder-									
mood disorder-									
peripheral nervous system neoplasm-									
neuroblastoma -									
movement disease- brain disease-									
electroclinical syndrome-									
lymphoblastic leukemia - myeloid leukemia -									
sarcoma-									
retinoblastoma -									
synucleinopathy-									
retinal cancer-childhood electroclinical syndrome-									
childhood absence epilepsy-									
physical disorder - Parkinson's disease -									
temporal lobe epilepsy-									
Rett syndrome-									
sensory system cancer-									p.adjust
ocular cancer-									
congenital heart disease-									
leber hereditary optic neuropathy -									
astrocytoma-									
connective tissue cancer-									
prostate cancer-									
male reproductive organ cancer-									
congenital nervous system abnormality-									
hemangioma- nephroblastoma-									
heart septal defect-									
hereditary Wilms' tumor- embryonal cancer-									
dysostosis-									
embryonal carcinoma- synostosis-									
basal cell carcinoma									
lymphoid leukemia -									
orofacial cleft-									
cleft palate-									
bone development disease-									
pancreatic cancer-									
craniosynostosis - pancreatic ductal carcinoma -									
T–cell leukemia-									
Barrett's esophagus - skin carcinoma -									
esophageal disease-	Pnc (30-	otN sharedPN 48) (1134)	shared (882	IPG Gno	otN Nr 03)	notG shar 188) (6	redGN alls	hared 592)	

Morphine addiction -		thway Enrichmer	nt: Age										
Axon guidance-													
GABAergic synapse - Amphetamine addiction -													
Long-term potentiation - Glutamatergic synapse -													
Oxytocin signaling pathway-													
Nicotine addiction -													
cGMP–PKG signaling pathway-													
Cholinergic synapse - Salivary secretion -													
MAPK signaling pathway - Wnt signaling pathway -													
Circadian entrainment-													
Aldosterone synthesis and secretion -  Amyotrophic lateral sclerosis (ALS) -													
Calcium signaling pathway-													
Transcriptional misregulation in cancer-													
Signaling pathways regulating pluripotency of stem cells -  Hippo signaling pathway -													
Hepatocellular carcinoma -													
Maturity onset diabetes of the young-													
Breast cancer- FoxO signaling pathway-													
Proteoglycans in cancer-													
Glioma - Gap junction -													
Dopaminergic synapse- Gastric cancer-													
Gastric cancer -													
Thyroid hormone signaling pathway -  Cushing's syndrome -													
HTLV-I infection -													
Pathogenic Escherichia coli infection - Adrenergic signaling in cardiomyocytes -													
Bacterial invasion of epithelial cells- MicroRNAs in cancer-													
Type II diabetes mellitus-													
Longevity regulating pathway – multiple species -  EGFR tyrosine kinase inhibitor resistance -													
Basal cell carcinoma - Melanoma -													
Arrhythmogenic right ventricular cardiomyopathy (ARVC) -													
Thermogenesis -  Melanogenesis -													
Chronic myeloid leukemia - Cardiac muscle contraction -													just 0.04 0.03
Endocrine resistance-													0.08 0.12
Regulation of lipolysis in adipocytes- Longevity regulating pathway-													
Hedgehog signaling pathway-													
Alzheimer's disease - ErbB signaling pathway -													
Rap1 signaling pathway- Long-term depression-													
Alcoholism -													
Aldosterone-regulated sodium reabsorption-													
Adherens junction - Parkinson's disease -													
Oxidative phosphorylation -													
Non-small cell lung cancer-													
Fluid shear stress and atherosclerosis - Progesterone–mediated oocyte maturation -													
Progesterone-mediated oocyte maturation -  Dilated cardiomyopathy (DCM) -													
Focal adhesion - TGF-beta signaling pathway -													
Gastric acid secretion - Ras signaling pathway-													
Ras signaling pathway - Colorectal cancer -													
Viral carcinogenesis - Estrogen signaling pathway -													
p53 signaling pathway-													
Cellular senescence - Vascular smooth muscle contraction -													
Regulation of actin cytoskeleton-													
Cortisol synthesis and secretion -													
Serotonergic synapse - PI3K–Akt signaling pathway -													
Thyroid hormone synthesis- Endocrine and other factor-regulated calcium reabsorption-													
Endocrine and other factor-regulated calcium reabsorption - Inflammatory mediator regulation of TRP channels -													
Oocyte meiosis - Insulin resistance -													
Choline metabolism in cancer-  Neuroactive ligand-receptor interaction-													
Neuroactive ligand-receptor interaction-													
Renin secretion - Prostate cancer -													
AMPK signaling pathway-													
Hepatitis B- Small cell lung cancer-													
Glycosphingolipid biosynthesis – globo and isoglobo series- Glycosphingolipid biosynthesis – ganglio series-													
Glycosphingolipid biosynthesis – ganglio series - Pancreatic secretion -													
	Inot (95	otC Cr 5) (14	notl shar 49) (5	redIC Tr 11) (1	notl shar 59) (5	redIT Ar 14) (1	notl sha 80) (5	redIA shai 516) (5	redCT shar (86) (5	edCA TnotA Ar 88) (59) (3	notT shar 81) (6 <sup>2</sup>	edTA 13)	



Molecular Function GO Enrichment: Age gated channel activityion channel activity substrate-specific channel activityvoltage-gated ion channel activityvoltage-gated channel activityvoltage-gated cation channel activityion channel bindingcation channel activity ligand-gated ion channel activityligand-gated channel activitychannel activity passive transmembrane transporter activityvoltage-gated potassium channel activitymetal ion transmembrane transporter activityprotein kinase C activitypotassium channel activitypotassium ion transmembrane transporter activity-GABA receptor activityligand-gated cation channel activitydiacylglycerol kinase activity calcium-dependent protein serine/threonine kinase activitykinesin binding tubulin binding calcium-dependent protein kinase activityhistone deacetylase bindingtranscription factor activity, RNA polymerase II core promoter proximal region sequence-specific bindingtranscriptional activator activity, RNA polymerase II transcription regulatory region sequence-specific bindingtranscriptional activator activity, RNA polymerase II core promoter proximal region sequence-specific bindingcore promoter proximal region DNA bindingcore promoter proximal region sequence-specific DNA binding-RNA polymerase II core promoter proximal region sequence-specific DNA bindingtranscriptional repressor activity, RNA polymerase II transcription regulatory region sequence-specific bindingtranscriptional repressor activity, RNA polymerase II core promoter proximal region sequence-specific bindingtranscription corepressor activitytranscription factor activity, RNA polymerase II transcription factor binding-HMG box domain binding enhancer binding core promoter sequence-specific DNA bindingenhancer sequence-specific DNA bindingcore promoter binding-RNA polymerase II transcription cofactor activityprotein heterodimerization activitytranscription factor activity, RNA polymerase II distal enhancer sequence-specific bindingtranscriptional activator activity, RNA polymerase II transcription factor binding-E-box binding RNA polymerase II core promoter sequence-specific DNA bindingtranscriptional repressor activity, RNA polymerase II transcription factor bindingtranscription coactivator activity-RNA polymerase II transcription coactivator activity-RNA polymerase II transcription corepressor activityglutamate receptor activitybHLH transcription factor bindingextracellularly glutamate-gated ion channel activityactivating transcription factor bindingchromatin DNA bindingbeta-catenin binding SMAD binding-RNA polymerase II transcription factor binding ionotropic glutamate receptor activityprotein kinase regulator activity-RNA polymerase II distal enhancer sequence-specific DNA bindingkinase regulator activityneurotransmitter receptor activity-RNA polymerase II activating transcription factor binding pre-mRNA bindingextracellular ligand-gated ion channel activitytranslation regulator activitymRNA 3'-UTR bindingprotein kinase activator activityp.adjust 0.04 transmitter-gated ion channel activity-0.03 0.02 0.01 transmitter-gated channel activity-GeneRatio 0.025 0.050 transcription factor activity, RNA polymerase II core promoter sequence-specific-0.075 0.100 neurexin family protein bindingco-SMAD bindingtranslation regulator activity, nucleic acid bindinginsulin receptor bindingtranslation repressor activitykinase activator activity GABA-A receptor activityephrin receptor activity-DNA binding, bendinglysine-acetylated histone bindingacetylation-dependent protein bindingtranslation repressor activity, nucleic acid binding-PDZ domain bindinghistone demethylase activityephrin receptor bindingrepressing transcription factor bindingstructural constituent of cytoskeletonhistone bindingtransmembrane receptor protein kinase activitymRNA 5'-UTR bindingmicrotubule bindingeukaryotic initiation factor 4E bindingtranscriptional activator activity, RNA polymerase II distal enhancer sequence-specific bindingprotein serine/threonine kinase activator activity demethylase activityscaffold protein bindingcalmodulin binding calcium ion transmembrane transporter activityligand-gated calcium channel activityreceptor signaling complex scaffold activityadrenergic receptor bindingprotein kinase inhibitor activitykinase inhibitor activityinsulin-like growth factor receptor bindinghormone receptor binding beta-tubulin binding-GDP-dissociation inhibitor activityactin bindingphosphoprotein phosphatase activityactin filament bindingdioxygenase activityprotein serine/threonine kinase inhibitor activityvoltage-gated calcium channel activitysyntaxin-1 bindingsteroid hormone receptor activitycalcium channel activitynuclear receptor activitytranscription factor activity, direct ligand regulated sequence-specific DNA bindingligand-gated anion channel activitydivalent inorganic cation transmembrane transporter activitycyclin-dependent protein serine/threonine kinase regulator activity-WW domain bindingglutamate receptor bindingprotein serine/threonine phosphatase activity-GTPase inhibitor activity excitatory extracellular ligand-gated ion channel activityprotein tyrosine kinase activity 3',5'-cyclic-AMP phosphodiesterase activity receptor activator activityprotein serine/threonine/tyrosine kinase activityglutamate bindingtranscription cofactor binding-SH3 domain bindinggamma-catenin bindingphosphatidylinositol bindingnuclear hormone receptor bindingtransmembrane receptor protein tyrosine kinase activity-GTPase regulator activity steroid hormone receptor binding-Cnotl (354) sharedIC (1210) Tnotl (376) sharedIT (1215) InotA (203) Anotl (426) sharedIA (1223) sharedCT (1394) sharedCA (1401) AnotT (192) sharedTA (1456)

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cation channel complex-													
ion channel complex-													
dendrite-													
transporter complex- cell body-													
postsynaptic membrane -													
presynaptic membrane													
postsynaptic density													
neuronal cell body-													
postsynaptic specialization -													
neuron to neuron synapse-													
neuron projection membrane -													
terminal bouton-													
site of polarized growth-													
dendritic shaft-													
inclusion body-													
synaptic vesicle- main axon-													
ionotropic glutamate receptor complex- neurotransmitter receptor complex-													
exocytic vesicle- membrane region-													
neuronal cell body membrane													
cell body membrane -													
leading edge membrane -													
membrane raft- synaptic vesicle membrane-													
exocytic vesicle membrane -													
neuron projection terminus -													
myelin sheath													
axon terminus -													
presynaptic active zone-													p.adjust 0.04 0.03 0.02 0.01  GeneRatio 0.025
caveola - cell projection membrane -													<ul><li>0.050</li><li>0.075</li></ul>
GABA receptor complex-													
receptor complex-													
neuron spine -													
nuclear chromatin													
excitatory synapse -													
integral component of synaptic vesicle membrane -													
cell-cell contact zone-													
protein serine/threonine phosphatase complex-													
inhibitory synapse-													
histone deacetylase complex-													
GABA–A receptor complex-													
heterochromatin- intercalated disc-													
plasma membrane receptor complex-													
catenin complex-													
cell-cell junction-													
nuclear inner membrane													
calcium channel complex-													
CCR4–NOT complex-cell–substrate adherens junction-													
cell-substrate junction-													
nuclear matrix-early endosome-													
nuclear membrane -													
T-tubule -													
cortical cytoskeleton -													
voltage-gated calcium channel complex-													
protein phosphatase type 2A complex-													
PcG protein complex -	Cnotl (372)	sharedIC T (1260) (3	notl shar (12	redIT Ar 264) (4-	notl shar 45) (12	edIA Tne (74) (20	otC shar 00) (14	redCT Cn 452) (1	notA An 74) (2	otC shar 59) (14	redCA AnotT sha 460) (203) (1	aredTA 515)	

developmental disorder of mental health-		Enrichment: Age							
intellectual disability-									
pervasive developmental disorder-									
specific developmental disorder-									
autism spectrum disorder-									
autistic disorder-									
peripheral nervous system neoplasm-									
epilepsy syndrome-									
autonomic nervous system neoplasm-									
neuroblastoma -									
mood disorder-									
myeloid leukemia-									
temporal lobe epilepsy-									
congenital heart disease-									
physical disorder-									
childhood electroclinical syndrome-									
childhood absence epilepsy-									
hereditary Wilms' tumor-									
lymphoblastic leukemia-									
brain disease-									p.adjust
congenital nervous system abnormality-									<ul><li>0.075</li><li>0.100</li><li>0.125</li></ul>
focal epilepsy-									
sarcoma-									
retinoblastoma -									
retinal cell cancer-									
heart septal defect									
retinal cancer-									
clear cell sarcoma-									
electroclinical syndrome-									
synucleinopathy-									
basal cell carcinoma-									
acute myeloid leukemia-									
sensory system cancer-									
ocular cancer-									
movement disease-									
glioblastoma multiforme-									
Parkinson's disease -									
bone development disease-									
Rett syndrome									
	shar (74	edIC shar 45) (79	redIT shar 52) (75	redIA share 55) (85	edCT An 52) (1	otC shar 30) (8	redCA sha 59) (8	redTA 79)	