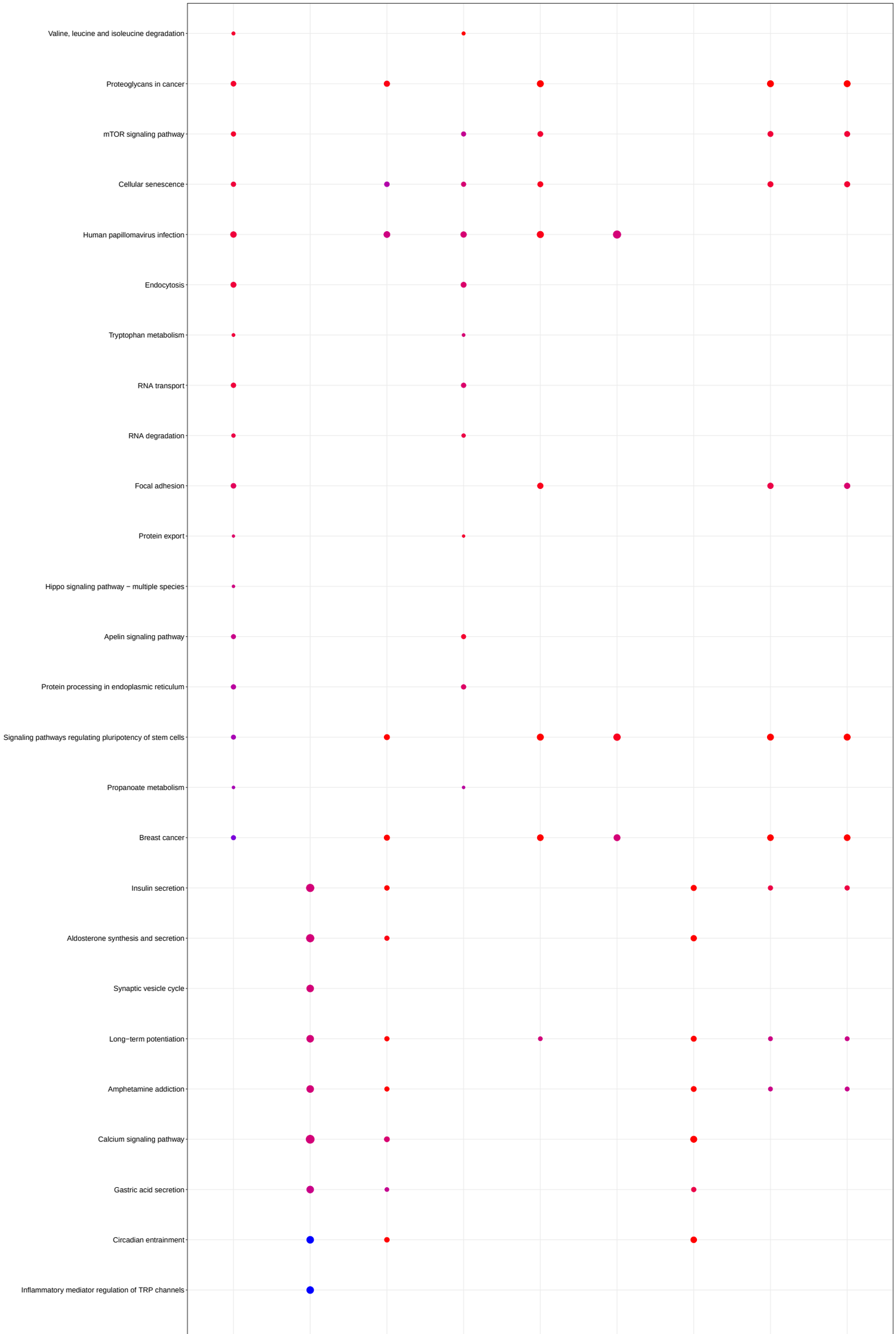
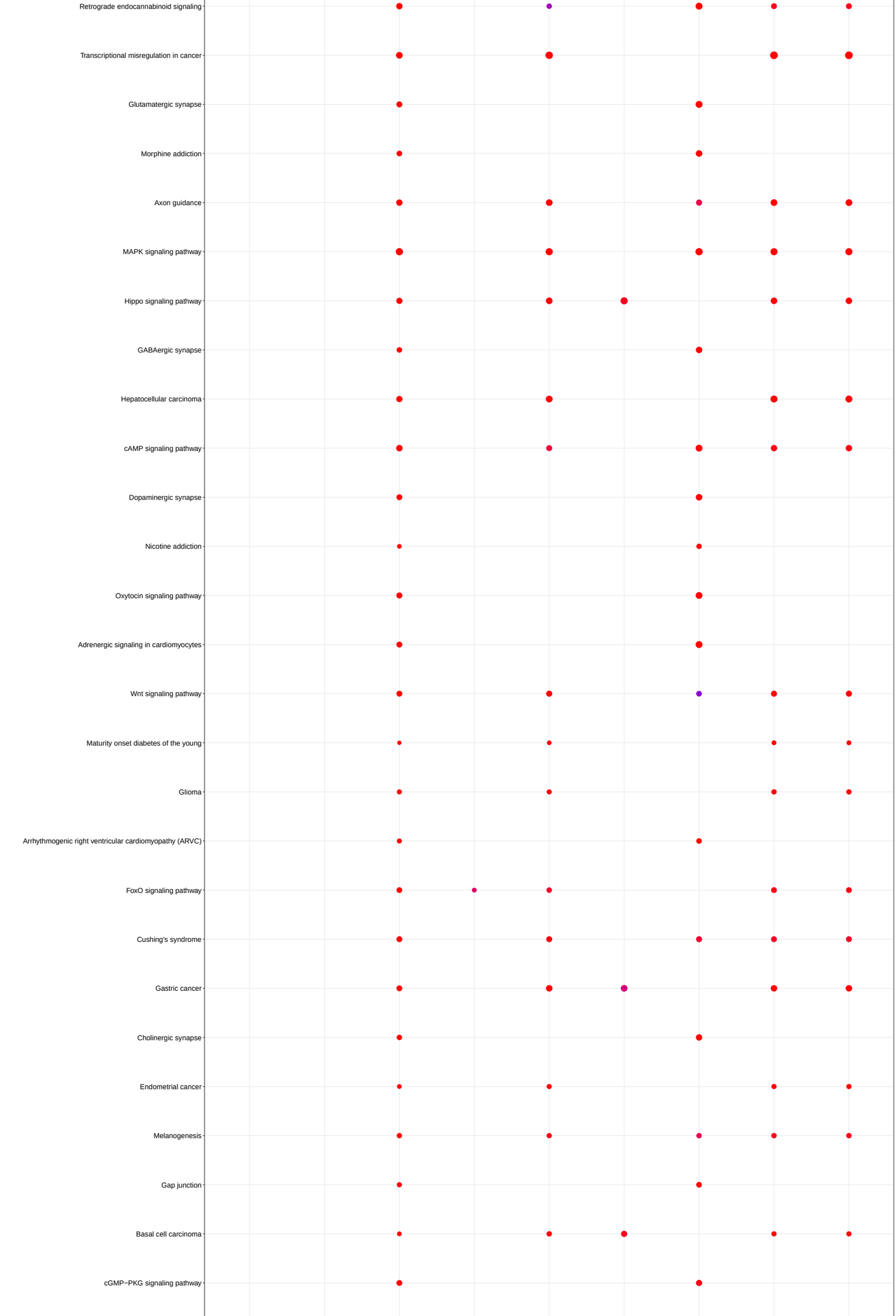
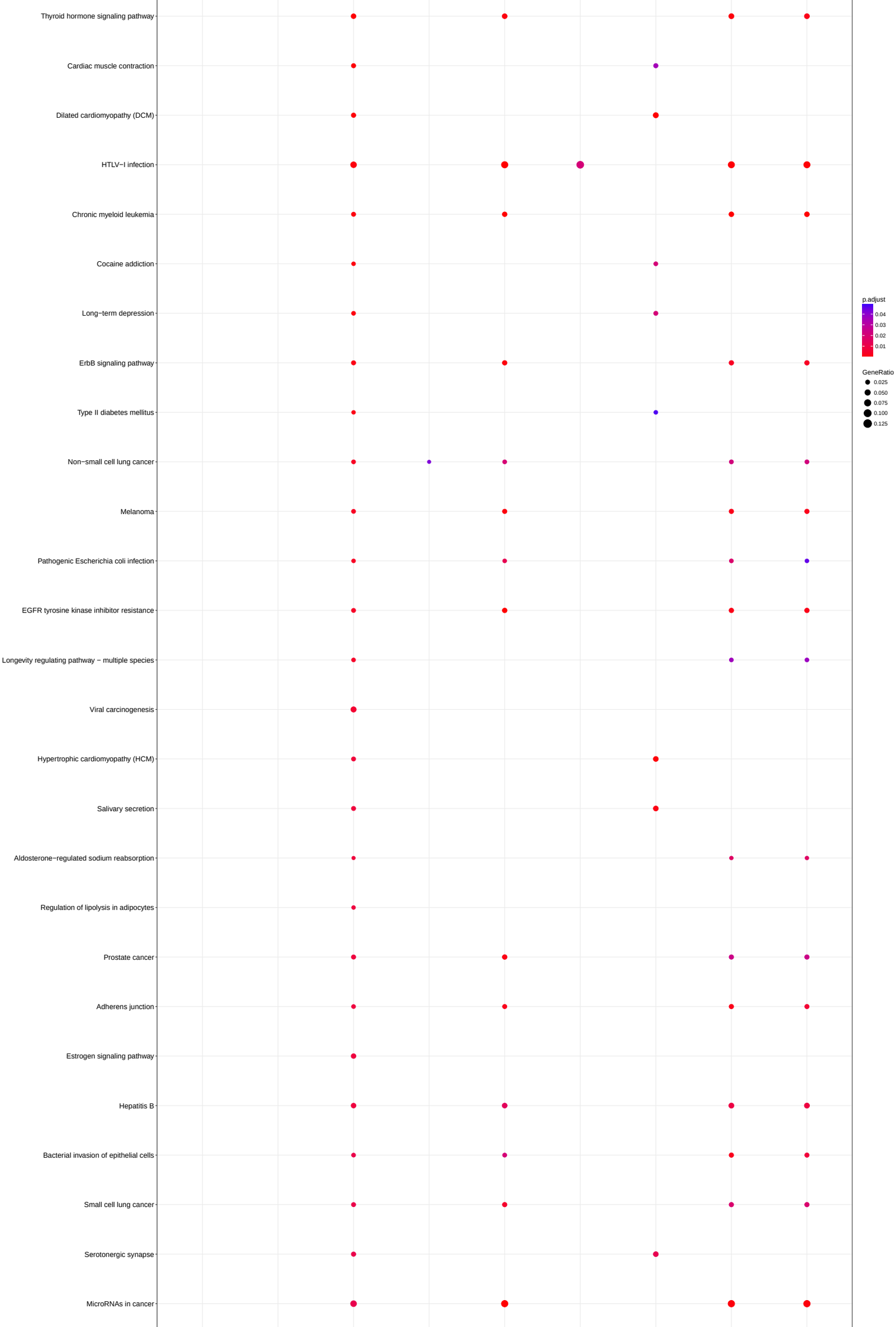
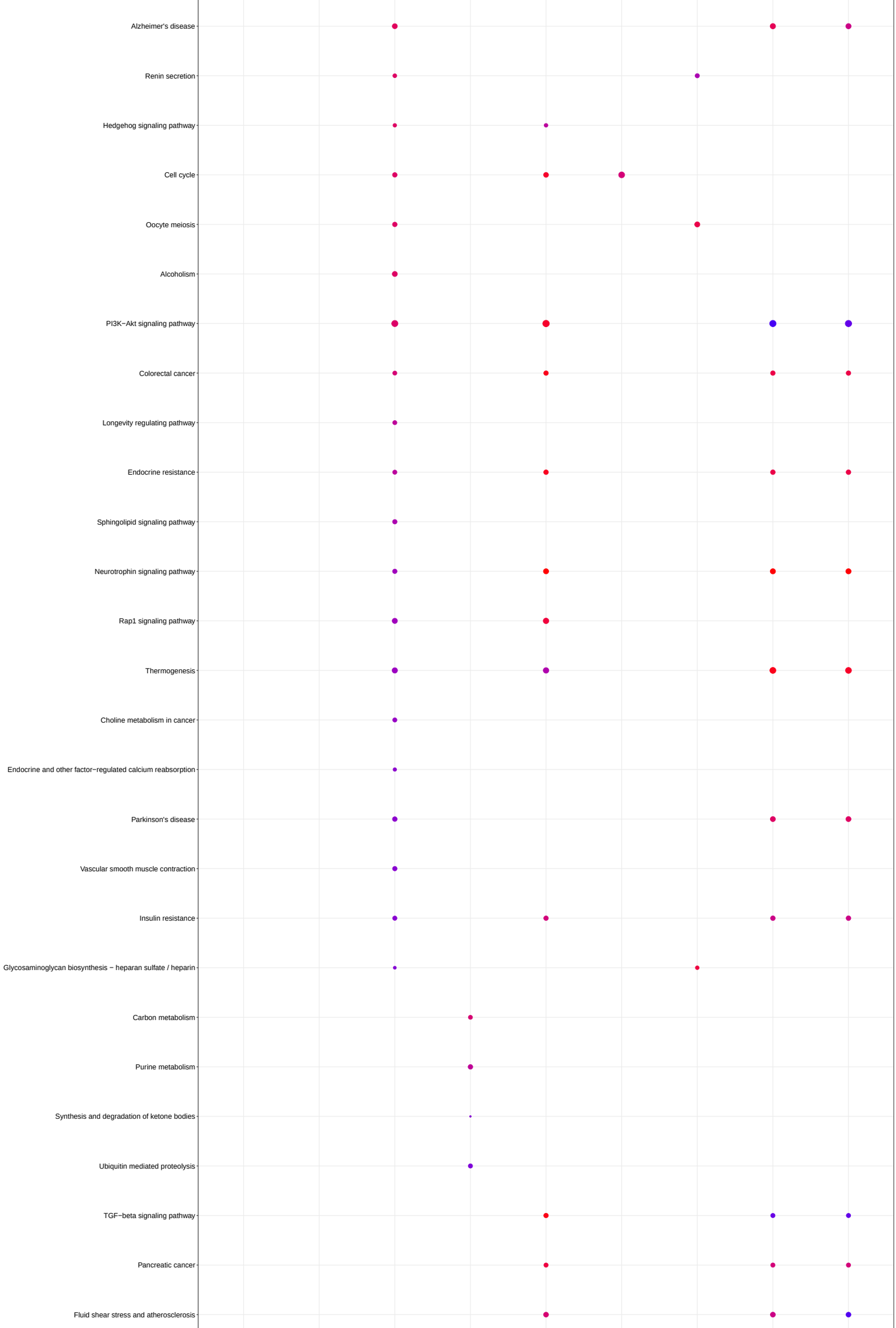
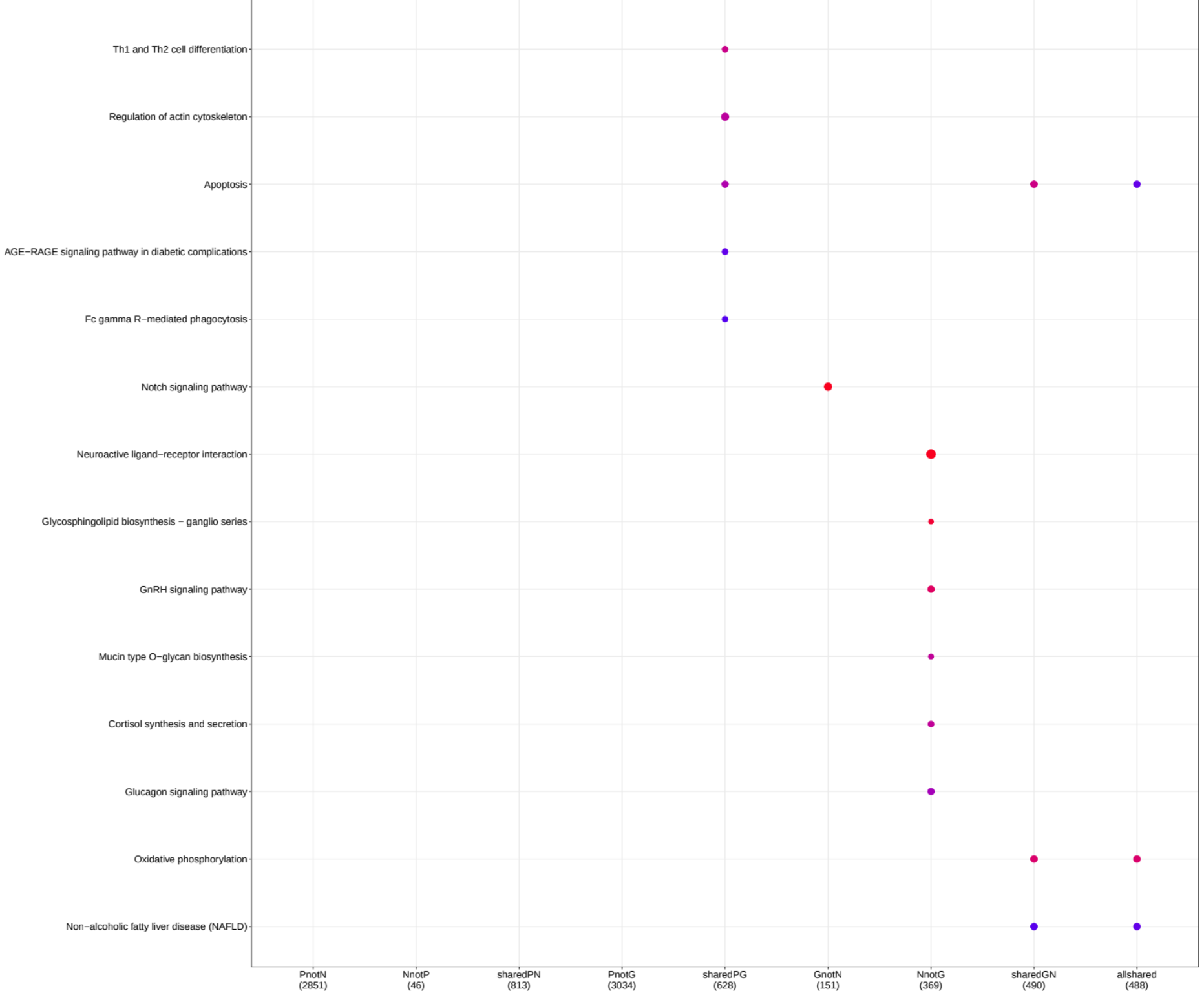
KEGG Pathway Enrichment: CellType




Retrograde endocannabinoid signaling
Transcriptional misregulation in cancer
Glutamatergic synapse
Morphine addiction
Axon guidance
MAPK signaling pathway
Hippo signaling pathway
GABAergic synapse
Hepatocellular carcinoma
cAMP signaling pathway
Dopaminergic synapse
Nicotine addiction
Oxytocin signaling pathway
Adrenergic signaling in cardiomyocytes
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
Endometrial cancer
Melanogenesis
Gap junction
Basal cell carcinoma
cGMP−PKG signaling pathway


Thyroid hormone signaling pathway
Cardiac muscle contraction
Dilated cardiomyopathy (DCM)
HTLV−I infection
Chronic myeloid leukemia
Cocaine addiction
Long−term depression
ErbB signaling pathway
Type II diabetes mellitus
Non−small cell lung cancer
Melanoma
Pathogenic Escherichia coli infection
EGFR tyrosine kinase inhibitor resistance
Longevity regulating pathway − multiple species
Viral carcinogenesis
Hypertrophic cardiomyopathy (HCM)
Salivary secretion
Aldosterone−regulated sodium reabsorption
Regulation of lipolysis in adipocytes
Prostate cancer
Adherens junction
Estrogen signaling pathway
Hepatitis B
Bacterial invasion of epithelial cells
Small cell lung cancer
Serotonergic synapse
MicroRNAs in cancer
p.adjust
0.04
0.03
0.02
0.01
GeneRatio
0.025
0.050
0.075
0.100
0.125


Alzheimer's disease
Renin secretion
Hedgehog signaling pathway
Cell cycle
Oocyte meiosis
Alcoholism
PI3K−Akt signaling pathway
Colorectal cancer
Longevity regulating pathway
Endocrine resistance
Sphingolipid signaling pathway
Neurotrophin signaling pathway
Rap1 signaling pathway
Thermogenesis
Choline metabolism in cancer
Endocrine and other factor−regulated calcium reabsorption
Parkinson's disease
Vascular smooth muscle contraction
Insulin resistance
Glycosaminoglycan biosynthesis − heparan sulfate / heparin
Carbon metabolism
Purine metabolism
Synthesis and degradation of ketone bodies
Ubiquitin mediated proteolysis
TGF−beta signaling pathway
Pancreatic cancer
Fluid shear stress and atherosclerosis


Th1 and Th2 cell differentiation
Regulation of actin cytoskeleton
Apoptosis
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
Oxidative phosphorylation
Non−alcoholic fatty liver disease (NAFLD)
PnotN (2851)
NnotP (46)
sharedPN (813)
PnotG (3034)
sharedPG (628)
GnotN (151)
NnotG (369)
sharedGN (490)
allshared (488)


Biological Process GO Enrichment: CellType
PnotN
(6893)
NnotP
(100)
sharedPN
(1913)
PnotG
(7321)
sharedPG
(1480)
GnotN
(364)
NnotG
(870)
sharedGN
(1143)
allshared
(1138)


Molecular Function GO Enrichment: CellType
transferase activity, transferring one−carbon groups
methyltransferase activity
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
kinase inhibitor activity
insulin receptor binding
WW domain binding
protein serine/threonine/tyrosine kinase activity
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 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 ribonucleotide 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)
sharedPN (1913)
PnotG (7363)
GnotP (29)
sharedPG (1465)
GnotN (366)
NnotG (886)
sharedGN (1128)
allshared (1122)
GeneRatio
0.03
0.06
0.09
p.adjust
0.04
0.03
0.02
0.01


Cellular Compartment GO Enrichment: CellType
centrosome
spindle
midbody
nuclear speck
spindle pole
centriole
microtubule organizing center part
microtubule
mitochondrial matrix
occluding junction
ubiquitin ligase complex
endoribonuclease complex
endonuclease complex
DNA repair complex
chromosomal region
chromosome, centromeric region
bicellular tight junction
SCF ubiquitin ligase complex
nuclear pore
cytoplasmic region
cytoplasmic 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 complex
COPII−coated ER to Golgi transport vesicle
nuclear membrane
serine/threonine protein kinase complex
sex chromosome
P−body
lamellipodium
condensed chromosome, centromeric region
replisome
condensed chromosome kinetochore
endoplasmic reticulum exit site
nuclear replication fork
ciliary tip
tethering complex
protein kinase complex
ciliary part
late endosome
ribonucleoprotein granule
endosomal part
cytoplasmic ribonucleoprotein granule
nucleolar part
Golgi−associated vesicle
filopodium
replication fork
cullin−RING ubiquitin ligase complex
methyltransferase complex
ciliary plasm
early endosome
presynapse
synaptic membrane
postsynapse
presynaptic membrane
neuron projection terminus
axon
postsynaptic density
postsynaptic specialization
asymmetric synapse
neuron to neuron synapse
synaptic vesicle
postsynaptic membrane
exocytic vesicle
axon terminus
axon part
dendritic shaft
potassium channel complex
SNARE complex
transport vesicle
dendrite
transcription factor complex
cation channel complex
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
axolemma
calcium channel complex
protein serine/threonine phosphatase complex
phosphatase complex
leading edge membrane
transcriptional repressor complex
histone deacetylase complex
presynaptic active zone
voltage−gated calcium channel complex
receptor complex
GABA receptor complex
voltage−gated potassium channel complex
nuclear transcription factor complex
RNA polymerase II transcription factor complex
terminal bouton
dendrite membrane
cell−cell contact zone
clathrin−sculpted vesicle
GABA−A receptor complex
heterochromatin
intrinsic component of synaptic vesicle membrane
main axon
integral component of synaptic vesicle membrane
inhibitory synapse
inclusion body
nuclear periphery
protein phosphatase type 2A complex
cell projection cytoplasm
nuclear matrix
transport vesicle membrane
perikaryon
membrane region
catenin complex
dendritic spine membrane
dendrite cytoplasm
nuclear heterochromatin
plasma membrane receptor complex
cell projection membrane
synaptic vesicle membrane
exocytic vesicle membrane
cell−cell adherens junction
plasma membrane raft
caveola
stress fiber
contractile actin filament bundle
actomyosin
myelin sheath
transferase complex, transferring phosphorus−containing groups
actin filament bundle
ciliary transition zone
mitotic spindle
kinetochore
integral component of Golgi membrane
Golgi−associated vesicle membrane
coated vesicle membrane
intrinsic component of Golgi membrane
ER to Golgi transport vesicle membrane
nuclear replisome
ciliary basal body
mRNA cap binding complex
membrane raft
peroxisomal membrane
microbody membrane
Golgi stack
membrane microdomain
actin cytoskeleton
organellar small ribosomal subunit
mitochondrial small ribosomal subunit
cell cortex part
NMDA selective glutamate receptor complex
PcG protein complex
cyclin−dependent protein kinase holoenzyme complex
PRC1 complex
ruffle membrane
cell−cell junction
sarcolemma
T−tubule
axon cytoplasm
neuronal cell body membrane
cell body membrane
clathrin−coated pit
endocytic vesicle membrane
PnotN (7237)
NnotP (105)
sharedPN (1996)
PnotG (7694)
sharedPG (1534)
NnotG (919)
sharedGN (1181)
allshared (1175)
GeneRatio
0.05
0.10
0.15
p.adjust
0.04
0.03
0.02
0.01


Disease Ontology Enrichment: CellType
thyroid carcinoma
thyroid cancer
breast benign neoplasm
thoracic benign neoplasm
pulmonary hypertension
developmental disorder of mental health
intellectual disability
specific developmental disorder
pervasive developmental disorder
autism spectrum disorder
autistic disorder
epilepsy syndrome
bipolar disorder
mood disorder
peripheral nervous system neoplasm
autonomic nervous system neoplasm
neuroblastoma
movement disease
brain disease
electroclinical syndrome
lymphoblastic leukemia
myeloid leukemia
sarcoma
retinoblastoma
retinal cell cancer
synucleinopathy
retinal cancer
childhood electroclinical syndrome
childhood absence epilepsy
physical disorder
Parkinson's disease
temporal lobe epilepsy
Rett syndrome
motor neuron disease
sensory system cancer
ocular cancer
acute myeloid leukemia
congenital heart disease
leber hereditary optic neuropathy
glioblastoma multiforme
astrocytoma
connective tissue cancer
musculoskeletal system cancer
prostate cancer
male reproductive organ cancer
clear cell sarcoma
congenital nervous system abnormality
hemangioma
nephroblastoma
heart septal defect
hereditary Wilms' tumor
embryonal cancer
dysostosis
embryonal carcinoma
synostosis
basal cell carcinoma
lymphoid leukemia
lung small cell carcinoma
orofacial cleft
cleft palate
bone development disease
germ cell cancer
pancreatic cancer
craniosynostosis
pancreatic ductal carcinoma
T−cell leukemia
Barrett's esophagus
skin carcinoma
esophageal disease
PnotN (3048)
sharedPN (1134)
sharedPG (882)
GnotN (203)
NnotG (488)
sharedGN (696)
allshared (692)
p.adjust
0.04
0.03
0.02
0.01
GeneRatio
0.03
0.06
0.09


KEGG Pathway Enrichment: Age
Morphine addiction
Axon guidance
GABAergic synapse
Amphetamine addiction
Long−term potentiation
Glutamatergic synapse
Oxytocin signaling pathway
Nicotine addiction
Insulin secretion
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
Retrograde endocannabinoid signaling
Signaling pathways regulating pluripotency of stem cells
Hippo signaling pathway
Hepatocellular carcinoma
Maturity onset diabetes of the young
cAMP signaling pathway
Breast cancer
FoxO signaling pathway
Proteoglycans in cancer
Glioma
Gap junction
Dopaminergic synapse
Gastric cancer
Endometrial 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
Endocrine resistance
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
Neurotrophin signaling pathway
Adherens junction
Parkinson's disease
Oxidative phosphorylation
Non−small cell lung cancer
Cocaine addiction
Fluid shear stress and atherosclerosis
Progesterone−mediated oocyte maturation
Dilated cardiomyopathy (DCM)
Focal adhesion
TGF−beta signaling pathway
Gastric acid secretion
Ras signaling pathway
Colorectal cancer
Viral carcinogenesis
Estrogen signaling pathway
p53 signaling pathway
Cellular senescence
Vascular smooth muscle contraction
Regulation of actin cytoskeleton
Platelet activation
Cortisol synthesis and secretion
Serotonergic synapse
PI3K−Akt signaling pathway
Thyroid hormone synthesis
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
Cell cycle
Renin secretion
Prostate cancer
AMPK signaling pathway
Hepatitis B
Small cell lung cancer
Glycosphingolipid biosynthesis − globo and isoglobo series
Glycosphingolipid biosynthesis − ganglio series
Pancreatic secretion
InotC (95)
CnotI (149)
sharedIC (511)
TnotI (159)
sharedIT (514)
AnotI (180)
sharedIA (516)
sharedCT (586)
sharedCA (588)
TnotA (59)
AnotT (81)
sharedTA (613)
p.adjust
0.04
0.03
0.02
0.01
GeneRatio
0.04
0.08
0.12
0.16


Biological Process GO Enrichment: Age
GeneRatio
0.03
0.06
0.09
p.adjust
0.04
0.03
0.02
0.01
sharedIC (1218)
InotT (210)
TnotI (371)
sharedIT (1220)
InotA (202)
AnotI (421)
sharedIA (1229)
CnotT (170)
sharedCT (1399)
AnotC (242)
sharedCA (1408)
sharedTA (1456)

Molecular Function GO Enrichment: Age
gated channel activity
ion channel activity
substrate−specific channel activity
voltage−gated ion channel activity
voltage−gated channel activity
voltage−gated cation channel activity
ion channel binding
cation channel activity
ligand−gated ion channel activity
ligand−gated channel activity
channel activity
passive transmembrane transporter activity
voltage−gated potassium channel activity
metal ion transmembrane transporter activity
protein kinase C activity
potassium channel activity
potassium ion transmembrane transporter activity
GABA receptor activity
ligand−gated cation channel activity
diacylglycerol kinase activity
calcium−dependent protein serine/threonine kinase activity
kinesin binding
tubulin binding
calcium−dependent protein kinase activity
histone deacetylase binding
transcription factor activity, RNA polymerase II core promoter proximal region sequence−specific binding
transcriptional activator activity, RNA polymerase II transcription regulatory 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
transcriptional repressor activity, RNA polymerase II core promoter proximal region sequence−specific binding
transcription corepressor activity
transcription factor activity, RNA polymerase II transcription factor binding
HMG box domain binding
enhancer binding
core promoter sequence−specific DNA binding
enhancer sequence−specific DNA binding
core promoter binding
RNA polymerase II transcription cofactor activity
protein heterodimerization activity
transcription factor activity, RNA polymerase II distal enhancer sequence−specific binding
transcriptional activator activity, RNA polymerase II transcription factor binding
E−box binding
RNA polymerase II core promoter sequence−specific DNA binding
transcriptional repressor activity, RNA polymerase II transcription factor binding
transcription coactivator activity
RNA polymerase II transcription coactivator activity
RNA polymerase II transcription corepressor activity
glutamate receptor activity
bHLH transcription factor binding
extracellularly glutamate−gated ion channel activity
activating transcription factor binding
chromatin DNA binding
beta−catenin binding
SMAD binding
RNA polymerase II transcription factor binding
ionotropic glutamate receptor activity
protein kinase regulator activity
RNA polymerase II distal enhancer sequence−specific DNA binding
kinase regulator activity
neurotransmitter receptor activity
RNA polymerase II activating transcription factor binding
pre−mRNA binding
extracellular ligand−gated ion channel activity
translation regulator activity
mRNA 3'−UTR binding
protein kinase activator activity
transmitter−gated ion channel activity
transmitter−gated channel activity
transcription factor activity, RNA polymerase II core promoter sequence−specific
neurexin family protein binding
co−SMAD binding
translation regulator activity, nucleic acid binding
insulin receptor binding
translation repressor activity
kinase activator activity
GABA−A receptor activity
ephrin receptor activity
DNA binding, bending
lysine−acetylated histone binding
acetylation−dependent protein binding
translation repressor activity, nucleic acid binding
PDZ domain binding
histone demethylase activity
ephrin receptor binding
repressing transcription factor binding
structural constituent of cytoskeleton
histone binding
transmembrane receptor protein kinase activity
mRNA 5'−UTR binding
microtubule binding
eukaryotic initiation factor 4E binding
transcriptional activator activity, RNA polymerase II distal enhancer sequence−specific binding
protein serine/threonine kinase activator activity
demethylase activity
scaffold protein binding
calmodulin binding
calcium ion transmembrane transporter activity
ligand−gated calcium channel activity
receptor signaling complex scaffold activity
adrenergic receptor binding
protein kinase inhibitor activity
kinase inhibitor activity
insulin−like growth factor receptor binding
hormone receptor binding
beta−tubulin binding
GDP−dissociation inhibitor activity
actin binding
phosphoprotein phosphatase activity
actin filament binding
dioxygenase activity
protein serine/threonine kinase inhibitor activity
voltage−gated calcium channel activity
syntaxin−1 binding
steroid hormone receptor activity
calcium channel activity
nuclear receptor activity
transcription factor activity, direct ligand regulated sequence−specific DNA binding
ligand−gated anion channel activity
divalent inorganic cation transmembrane transporter activity
cyclin−dependent protein serine/threonine kinase regulator activity
WW domain binding
glutamate receptor binding
protein serine/threonine phosphatase activity
GTPase inhibitor activity
excitatory extracellular ligand−gated ion channel activity
protein tyrosine kinase activity
3',5'−cyclic−AMP phosphodiesterase activity
receptor activator activity
protein serine/threonine/tyrosine kinase activity
glutamate binding
transcription cofactor binding
SH3 domain binding
gamma−catenin binding
phosphatidylinositol binding
nuclear hormone receptor binding
transmembrane receptor protein tyrosine kinase activity
GTPase regulator activity
steroid hormone receptor binding
CnotI (354)
sharedIC (1210)
TnotI (376)
sharedIT (1215)
InotA (203)
AnotI (426)
sharedIA (1223)
sharedCT (1394)
sharedCA (1401)
AnotT (192)
sharedTA (1456)
p.adjust
0.04
0.03
0.02
0.01
GeneRatio
0.025
0.050
0.075
0.100


Cellular Compartment GO Enrichment: Age
synaptic membrane
cation channel complex
postsynapse
ion channel complex
dendrite
transmembrane transporter complex
transporter complex
cell body
postsynaptic membrane
potassium channel complex
presynaptic membrane
voltage−gated potassium channel complex
postsynaptic density
neuronal cell body
presynapse
postsynaptic specialization
asymmetric synapse
neuron to neuron synapse
axon
neuron projection membrane
axon part
terminal bouton
growth cone
site of polarized growth
dendritic shaft
perikaryon
inclusion body
axolemma
synaptic vesicle
main axon
ionotropic glutamate receptor complex
neurotransmitter receptor complex
exocytic vesicle
membrane region
neuronal cell body membrane
cell body membrane
sarcolemma
leading edge membrane
dendrite membrane
membrane raft
synaptic vesicle membrane
exocytic vesicle membrane
membrane microdomain
neuron projection terminus
cell leading edge
myelin sheath
axon terminus
plasma membrane raft
presynaptic active zone
transport vesicle membrane
caveola
cell projection membrane
GABA receptor complex
transport vesicle
receptor complex
transcription factor complex
neuron spine
dendritic spine
nuclear chromatin
excitatory synapse
AMPA glutamate receptor complex
integral component of synaptic vesicle membrane
transcriptional repressor complex
cell−cell contact zone
clathrin−sculpted vesicle
protein serine/threonine phosphatase complex
phosphatase complex
inhibitory synapse
intrinsic component of synaptic vesicle membrane
histone deacetylase complex
GABA−A receptor complex
nuclear transcription factor complex
heterochromatin
intercalated disc
plasma membrane receptor complex
cell−cell adherens junction
catenin complex
dendritic spine membrane
cell−cell junction
RNA polymerase II transcription factor complex
nuclear inner membrane
calcium channel complex
focal adhesion
CCR4−NOT complex
cell−substrate adherens junction
cell−substrate junction
nuclear periphery
nuclear matrix
early endosome
nuclear membrane
cytoplasmic region
T−tubule
cortical cytoskeleton
microtubule
voltage−gated calcium channel complex
cyclin−dependent protein kinase holoenzyme complex
protein phosphatase type 2A complex
nuclear heterochromatin
PcG protein complex
CnotI (372)
sharedIC (1260)
TnotI (388)
sharedIT (1264)
AnotI (445)
sharedIA (1274)
TnotC (200)
sharedCT (1452)
CnotA (174)
AnotC (259)
sharedCA (1460)
AnotT (203)
sharedTA (1515)
p.adjust
0.04
0.03
0.02
0.01
GeneRatio
0.025
0.050
0.075

Disease Ontology Enrichment: Age
developmental disorder of mental health
intellectual disability
pervasive developmental disorder
specific developmental disorder
autism spectrum disorder
autistic disorder
peripheral nervous system neoplasm
epilepsy syndrome
autonomic nervous system neoplasm
neuroblastoma
bipolar disorder
mood disorder
myeloid leukemia
temporal lobe epilepsy
congenital heart disease
physical disorder
childhood electroclinical syndrome
childhood absence epilepsy
hereditary Wilms' tumor
nephroblastoma
lymphoblastic leukemia
brain disease
congenital nervous system abnormality
focal epilepsy
sarcoma
retinoblastoma
retinal cell cancer
heart septal defect
retinal cancer
clear cell sarcoma
leber hereditary optic neuropathy
electroclinical syndrome
synucleinopathy
basal cell carcinoma
acute myeloid leukemia
sensory system cancer
ocular cancer
movement disease
glioblastoma multiforme
Parkinson's disease
dystonia
bone development disease
Rett syndrome
sharedIC (745)
sharedIT (752)
sharedIA (755)
sharedCT (852)
AnotC (130)
sharedCA (859)
sharedTA (879)
p.adjust
0.04
0.03
0.02
0.01
GeneRatio
0.025
0.050
0.075
0.100
0.125