		thway Enrichment by Age in Neurons						
Glutamatergic synapse								
Adherens junction - Phospholipase D signaling pathway -								
Vascular smooth muscle contraction - Cholinergic synapse -								
Calcium signaling pathway - Cell adhesion molecules (CAMs) -								
Circadian entrainment - Focal adhesion -								
Neuroactive ligand-receptor interaction - cAMP signaling pathway								
Dilated cardiomyopathy (DCM) - Bile secretion -								
Gastric cancer - ECM-receptor interaction -								
PI3K–Akt signaling pathway - Breast cancer -								
Axon guidance - Hippo signaling pathway -								
Cushing syndrome - Hypertrophic cardiomyopathy (HCM) -								
Tight junction -								
Cytokine-cytokine receptor interaction -  Arrhythmogenic right ventricular cardiomyopathy (ARVC) -								
Proteoglycans in cancer-								
Signaling pathways regulating pluripotency of stem cells -  Morphine addiction -								
Pancreatic secretion - Protein digestion and absorption -								
Relaxin signaling pathway - MAPK signaling pathway -								
Chemokine signaling pathway - Platelet activation -								
Human T-cell leukemia virus 1 infection - Ras signaling pathway -								
Apoptosis - Human papillomavirus infection -								
Prolactin signaling pathway - Aldosterone synthesis and secretion -								
Gastric acid secretion - Cortisol synthesis and secretion -								
Adrenergic signaling in cardiomyocytes - Salivary secretion -								
Thyroid hormone synthesis - Inflammatory mediator regulation of TRP channels -								
Wnt signaling pathway								
Small cell lung cancer - Leukocyte transendothelial migration -								
Melanogenesis - Tyrosine metabolism -								
Sphingolipid signaling pathway - PPAR signaling pathway -								
Complement and coagulation cascades - cGMP-PKG signaling pathway -								
cGMP–PKG signaling pathway - Basal cell carcinoma - Gap junction -								
Gap junction - Apelin signaling pathway - Hepatocellular carcinoma -								
Hepatocellular carcinoma - Cholesterol metabolism - Insulin secretion -								
AGE-RAGE signaling pathway in diabetic complications								
TGF-beta signaling pathway								
IL-17 signaling pathway - GABAergic synapse -								
Thyroid cancer - Parathyroid hormone synthesis, secretion and action -								
TNF signaling pathway -								
Melanoma								p.adjust
Fluid shear stress and atherosclerosis  Thyroid hormone signaling pathway								0.01 0.02 0.03 0.04
Estrogen signaling pathway - Serotonergic synapse -								GeneRatio  ● 0.02
Ovarian steroidogenesis - Chronic myeloid leukemia -								0.04 0.06 0.08
Insulin resistance - Insulin signaling pathway -								
Chagas disease (American trypanosomiasis) Pancreatic cancer								
Non-small cell lung cancer								
Choline metabolism in cancer - Bacterial invasion of epithelial cells -								
Glycerolipid metabolism -								
EGFR tyrosine kinase inhibitor resistance p53 signaling pathway								
Type II diabetes mellitus - Cell cycle -								
Hepatitis C - Prostate cancer -								
JAK-STAT signaling pathway - Fc gamma R-mediated phagocytosis -								
ErbB signaling pathway  Platinum drug resistance								
Hepatitis B								
Long-term depression - Fat digestion and absorption - Fther lipid metabolism -								
Ether lipid metabolism -  Endometrial cancer -  Colorectal cancer -								
Colorectal cancer - Renal cell carcinoma -								
ABC transporters - Glycosaminoglycan biosynthesis – heparan sulfate / heparin -								
GnRH signaling pathway  Oxytocin signaling pathway								
Longevity regulating pathway – multiple species –  Long-term potentiation –								
Retrograde endocannabinoid signaling - Glycosphingolipid biosynthesis – ganglio series -								
Dopaminergic synapse Inositol phosphate metabolism								
Renin secretion - Phosphatidylinositol signaling system -								
FoxO signaling pathway - N-Glycan biosynthesis -								
Hematopoietic cell lineage - Malaria -								
Mucin type O-glycan biosynthesis - Hippo signaling pathway – multiple species -								
Tryptophan metabolism beta-Alanine metabolism								
Inflammatory bowel disease (IBD) - Histidine metabolism -								
Valine, leucine and isoleucine degradation - Purine metabolism -								
Phototransduction - Fructose and mannose metabolism -								
African trypanosomiasis - Viral myocarditis -								
Endocrine and other factor–regulated calcium reabsorption –  Staphylococcus aureus infection –								
Linoleic acid metabolism - Starch and sucrose metabolism -								
Folate biosynthesis								
AMPK signaling pathway  Sphingolipid metabolism								
alpha–Linolenic acid metabolism –  Th1 and Th2 cell differentiation –								
Primary immunodeficiency - Th17 cell differentiation -								
Arachidonic acid metabolism - Endocrine resistance -								
Neurotrophin signaling pathway -								
Toxoplasmosis – Glycosphingolipid biosynthesis – globo and isoglobo series –								
T cell receptor signaling pathway	Decrea mCA (870	asing Increasing AG mCAG (0) (5407)	Increasing mCAC (5745)	Decreasing (Overlapping G mCAG	Decreasing enes) (Overlapping Ge mCAC (128)	Increas nes) (Overlapping mCA (3723	sing Increasi g Genes) (Overlapping G mCAC 3) (4225	ng Genes)
	(87	<b>(5407)</b>	(5745)	mCAG (510)	mCAC (128)	mCA (3723	mCAC 3) (4225)	

tubulin binding ·	g-	Molecular Function GO Enrichm	nent by Age in Neu	rons					
cation channel activity potassium channel activity cell adhesion molecule binding ion channel activity postsynaptic neurotransmitter receptor activity postsynaptic neurotransmitter neurotrans	/- g- /- /-								
guanyl–nucleotide exchange factor activity glutamate receptor activity glutamate receptor activity gated channel activity substrate–specific channel activity ion gated channel activity groups are activity.	/ - / - / - / -								
potassium ion transmembrane transporter activity transmembrane receptor protein tyrosine phosphatase activity transmembrane receptor protein phosphatase activity transmembrane receptor protein phosphatase activity dynein light chain binding voltage–gated cation channel activity neurotransmitter receptor activity involved in regulation of postsynaptic membrane potential neurotransmitter receptor activity involved in regulation of postsynaptic membrane potential neurotransmitter receptor activity involved in regulation of postsynaptic membrane potential neurotransmitter receptor activity involved in regulation of postsynaptic membrane potential neurotransmitter receptor activity involved in regulation of postsynaptic membrane potential neurotransmitter receptor activity involved in regulation of postsynaptic membrane potential neurotransmitter receptor activity involved in regulation of postsynaptic membrane potential neurotransmitter receptor activity involved in regulation of postsynaptic membrane potential neurotransmitter receptor activity involved in regulation of postsynaptic membrane potential neurotransmitter receptor activity involved in regulation of postsynaptic membrane potential neurotransmitter receptor activity involved in regulation of postsynaptic membrane potential neurotransmitter receptor activity involved in regulation of postsynaptic membrane neurotransmitter receptor activity involved in regulation of postsynaptic membrane neurotransmitter	/- /- g- /-								
transmitter–gated ion channel activity involved in regulation of postsynaptic membrane potential passive transmembrane transporter activity activity passive transmembrane transporter activity actin binding repressing transcription factor binding growth factor binding.	- 								
AMP binding - channel activity - metal ion transmembrane transporter activity - microtubule binding - Ras guanyl-nucleotide exchange factor activity -	g - / - / - g -								
ionotropic glutamate receptor activity extracellularly glutamate-gated ion channel activity scaffold protein binding proximal promoter sequence-specific DNA binding signal transducer activity, downstream of receptor-	/ - / - g -								
cadherin binding SH3 domain binding G-protein beta/gamma-subunit complex binding transcriptional activator activity, RNA polymerase II transcription regulatory region sequence-specific DNA binding phosphatidylinositol binding	g - g - g -								
neurotransmitter receptor activity calmodulin binding phosphoric ester hydrolase activity monovalent inorganic cation transmembrane transporter activity transmitter–gated ion channel activity.	/- g- /- /-								
transmitter-gated channel activity signal transducer, downstream of receptor, with serine/threonine kinase activity spectrin binding voltage-gated ion channel activity voltage-gated chan	/- /- g- /-								
voltage-gated potassium channel activity cytoskeletal adaptor activity alpha-mannosidase activity alpha-mannosidase activity outward rectifier potassium channel activity and mannosidase activity and the control of th	/ - / - / - / -								
phospholipid transporter activity delayed rectifier potassium channel activity delayed rectifier potassium channel activity transcription factor activity, RNA polymerase II proximal promoter sequence–specific DNA binding sulfur compound binding sodium ion transmembrane transporter activity sodium ion transporter activity sodium ion transmembrane transporter activity sodium ion transmembr	/- g- g- /-								
phospholipid binding transcriptional activator activity, RNA polymerase II proximal promoter sequence–specific DNA binding RNA polymerase II proximal promoter sequence–specific DNA binding anion transmembrane transporter activity anion transmembrane transcription factor binding RNA polymerase II transcription factor binding anion transmembrane II transcription factor binding anion transmembrane transcription factor binding anion transmembrane II transcription factor binding anion t	g - g - / - g -								
protein tyrosine kinase activity of glycosaminoglycan binding of microtubule motor activity of the parin binding o	g - / - g - g -								
inorganic anion transmembrane transporter activity inorganic anion transmembrane transporter activity secondary active transmembrane transporter activity secondary active transmembrane transporter activity phosphate binding enzyme inhibitor activity secondary.	/- /- /-								
integrin binding on phosphatidylinositol—4,5—bisphosphate 3—kinase activity on phosphatidylinositol—4,5—bisphosphate 3—kinase activity of transmembrane transporter activity of transmembrane receptor protein kinase activity of the contraction of	g - / - g - / -								
extracellular matrix structural constituent receptor ligand activity receptor ligand activity phosphatidylinositol bisphosphate kinase activity growth factor receptor binding motor activity.	/- /- g- /-								
mitogen–activated protein kinase kinase binding actin filament binding symporter activity symporter activity cargo receptor activity.	g - / - / - / -								
solute:cation symporter activity on phosphatidylinositol bisphosphate binding on transmembrane receptor protein tyrosine kinase activity on the control of t	g - / - g - g -								
scavenger receptor activity.  transcriptional repressor activity, RNA polymerase II transcription regulatory region sequence–specific DNA binding alcohol binding phosphatase activity.  phosphatase activity active transmembrane transporter activity.	/- g- g- /-								
G-protein coupled peptide receptor activity. Rho guanyl-nucleotide exchange factor activity. collagen binding. cytokine binding.	/- /- 3- 3- /-								
tetrapyrrole binding - carbohydrate binding - proteoglycan binding - peptide receptor activity - Wnt-protein binding -	] - ] - / - ] -								
monooxygenase activity solute:sodium symporter activity solute:solu	/- /- n- /-								
endopeptidase inhibitor activity of protein tyrosine phosphatase activity of protein tyrosine phosphatase activity of protein tyrosine phosphatase activity of phosphatidylinositol—3—kinase activity of activity of activity of the protein activated receptor activity of the phosphatidylinositol—3—kinase activity of the protein activated receptor activity of the phosphatase inhibitor activity of the protein tyrosine phosphatase activity of the phosphatase activity of the protein tyrosine phosphatase activity of the phosphatase activity of	/ - / - / - / -								
phosphatidylinositol 3-kinase binding heme binding heme binding heme binding cysteine-type endopeptidase inhibitor activity coenzyme binding coenzyme binding extracellular matrix binding hextracellular matrix binding coenzyme b	] - ] - / - ] -								
cytokine activity - cytokine activity - cytokine receptor binding - protease binding - phosphatidylinositol-4,5-bisphosphate binding - phosphoric diester hydrolase activity -	/- g- g- g- /-								
alpha–actinin binding - peptidase regulator activity - serine–type endopeptidase inhibitor activity - oxidoreductase activity, acting on a sulfur group of donors - endopeptidase regulator activity -	]- /- /- 5- /-								
inorganic anion exchanger activity sodium-independent organic anion transmembrane transporter activity metalloendopeptidase activity metalloendopeptidase activity proline-rich region binding for binding involved in cell-cell adhesion protein phosphorylated amino acid binding solices.	/- /- g- g-								
cytokine receptor activity - lipase activity - cyclic nucleotide binding - virus receptor activity - hijacked molecular function -	/- /- 3- /-								
growth factor activity steroid binding.  ATP-dependent microtubule motor activity, minus-end-directed phosphoprotein phosphatase activity anion channel activity.	g - d - / - / -								
chloride channel activity cell-cell adhesion mediator activity cell-cell adhesion mediator activity molecular adaptor activity coreceptor activity activity with a coreceptor activity coreceptor activity of the	/ - / - / - / -								
insulin–like growth factor receptor binding oxidoreductase activity, oxidizing metal ions lipoprotein particle receptor activity structural molecule activity conferring elasticity structural molecule activity conferring elasticity of the conferring elasticity el	g - s - / - / -								
cAMP binding - transcription factor activity, transcription factor recruiting - calcium activated cation channel activity - sterol transporter activity - kinase regulator activity -	] - ] - / - / -								
ion antiporter activity in a ligand-gated ion channel activity in a ligand-gated ion channel activity in a ligand-gated channel activity in a ligand-gated channel activity in a ligand-gated ion channel activity in	/ - / - / - / -								
insulin–like growth factor binding dynein light intermediate chain binding.  RNA polymerase II basal transcription factor binding cell adhesion mediator activity protein binding, bridging.	g - g - g - / -								
organic acid transmembrane transporter activity carboxylic acid transmembrane transporter activity carboxylic acid transmembrane transporter activity of the completed receptor binding of the completed receptor	/- g- g- /-			•					GeneRatio ● 0.02
steroid hormone receptor activity neurotransmitter transporter activity neurotransmitter transporter activity protein self-association and protein self-association and neuropeptide receptor binding on paired donors, with incorporation or reduction of molecular oxygen, NAD(P)H as one donor, and incorporation of one atom of oxygen oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, NAD(P)H as one donor, and incorporation of one atom of oxygen oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, NAD(P)H as one donor, and incorporation of one atom of oxygen.	/- n - g - n -								0.04 0.06 p.adjust
Notch binding - GABA receptor activity - drug transmembrane transporter activity - kinase inhibitor activity - oxidoreductase activity, acting on the CH–CH group of donors -	/- /- /- 8-								0.01 0.02 0.03 0.04
phosphoprotein binding phosphatase binding phosphatase binding phosphatase binding ligand-gated cation channel activity cholesterol binding binding sintracellular ligand-gated ion channel activity sintracellular ligand-gated ion channel activity situated to be a constituent of cytoskeleton situated by the cytoskeleton s	g - / - g - / -								
sterol binding monosaccharide transmembrane transporter activity monosaccharide transmembrane transporter activity cyclase activity hexose transmembrane transporter activity activity of the cyclase	g - / - / - / -								
phosphorus–oxygen lyase activity carbohydrate transmembrane transporter activity acid–thiol ligase activity acid–thiol ligase activity protein tyrosine kinase binding.  Rab guanyl–nucleotide exchange factor activity acceptance of the company of t	/- /- g-								
magnesium ion binding glucose transmembrane transporter activity ly sexopeptidase activity exopeptidase activity exopeptidase activity exopeptidase activity setting on carbon–nitrogen (but not peptide) bonds setting the sexopeptidase activity exting on carbon–nitrogen (but not peptide) bonds setting exopeptidase activity exting on carbon–nitrogen (but not peptide) bonds setting exting explain the sexopeptidase activity exting	/- /- /- 8-								
ubiquitin-protein transferase activity transcription factor activity, sequence-specific DNA binding transcription factor recruiting structural constituent of eye lens ubiquitin-like protein ligase activity sugar transmembrane transporter activity.	/- g- s- /-							•	
GTPase regulator activity.  RNA polymerase II transcription factor activity, sequence–specific transcription regulatory region DNA binding ephrin receptor activity intracellular calcium activated chloride channel activity cholesterol transporter activity.	g - / - / - / -								
intracellular chloride channel activity phosphotransferase activity, nitrogenous group as acceptor ankyrin binding insulin receptor substrate binding excitatory extracellular ligand-gated ion channel activity substrate binding.	r - g - g - / -								
dopamine receptor binding dopamine receptor binding 14–3–3 protein binding sialyltransferase activity 3',5'–cyclic–AMP phosphodiesterase activity GTPase activator activity	g - g - / - / -								
GTPase activity of voltage-gated potassium channel activity involved in cardiac muscle cell action potential repolarization of nucleoside-triphosphatase regulator activity of nuclear receptor activity of transcription factor activity, direct ligand regulated sequence-specific DNA binding of the sequence-sp	/- n- /- /- g-								
protein kinase A catalytic subunit binding cyclic—nucleotide phosphodiesterase activity ammonium transmembrane transporter activity tumor necrosis factor—activated receptor activity death receptor activity death receptor activity transferase activity, transferring glycosyl groups described to the company of the company	/ - / - / - / -								
voltage–gated calcium channel activity phosphatidylinositol phospholipase C activity COA-ligase activity phospholipase C activity phospholipase C activity carbohydrate kinase activity carboh	/ - / - / - / -								
3',5'-cyclic-GMP phosphodiesterase activity carboxylic acid binding organic acid binding structural constituent of muscle antiporter activity.	g - g - - / -								
solute:cation antiporter activity solute: cation antiporter activity solute: cation antiporter activity solute: cation: cation	S - / - / - / -								
calcium–activated potassium channel activity - leak channel activity - narrow pore channel activity - amino acid transmembrane transporter activity - prostanoid receptor activity -	/ - / - / - / -								
heparan sulfate sulfotransferase activity signaling adaptor activity sarboxypeptidase activity adenylate cyclase activity sarbohydrate:cation symporter activity sarbohydrate.	/ - / - / - / -								
muscle alpha–actinin binding organic acid:sodium symporter activity organic acid:sodium symporter acid:sodium sympor	/ - / - / - / -								
prostaglandin receptor activity orate transmembrane transporter activity orate transmembrane transporter activity orate transmembrane transporter activity or acti	/ - / - / - / -								
icosanoid receptor activity oxidoreductase activity, acting on the CH–NH2 group of donors, oxygen as acceptor of low–density lipoprotein particle binding organic cation transmembrane transporter activity ophospholipid–translocating ATPase activity ophospholipid	/- r - g - / -								
calcium-release channel activity metalloexopeptidase activity metalloexopeptidase activity phosphatidylserine binding anion:anion antiporter activity anion:anion antiporter activity insulin-like growth factor I binding iron ion binding.	/ - g - / - g -								
phosphatidylinositol–3–phosphate binding phosphatidylinositol–3–phosphate binding potassium ion leak channel activity cGMP binding oxidoreductase activity, acting on the CH–NH2 group of donors transforming growth factor beta binding on the control of the contro	; ; ; ; ; ;								
oxidoreductase activity, acting on single donors with incorporation of molecular oxygen- calcium:cation antiporter activity actin-dependent ATPase activity calcium-dependent cysteine-type endopeptidase activity amino acid:cation symporter activity retinol binding	n - / - / - / -								
retinol binding retinol binding retinol dehydrogenase activity SH3/SH2 adaptor activity carboxy–lyase activity pyridoxal phosphate binding vitamin B6 binding	/- /- /- g-								
oxidoreductase activity, acting on single donors with incorporation of molecular oxygen, incorporation of two atoms of oxygen transforming growth factor beta receptor binding clathrin binding clathrin binding organic hydroxy compound transmembrane transporter activity heparan sulfate proteoglycan binding.	n - g - g - / - g -								
laminin binding dynein intermediate chain binding dynein intermediate chain binding dynein intermediate chain binding dynein intermediate chain binding transmembrane receptor protein serine/threonine kinase activity amino acid:sodium symporter activity are guanyl—nucleotide exchange factor activity decided by a complex of the complex	g - / - / - / -								
filamin binding - chemokine binding - phosphatidylinositol–3,5–bisphosphate binding - monosaccharide binding - transferase activity, transferring hexosyl groups -	g - g - g -								
isoprenoid binding - acetylcholine receptor activity - L–amino acid transmembrane transporter activity - protein tyrosine kinase activator activity - channel regulator activity -	g - / - / - / -								
carbon-carbon lyase activity frizzled binding phosphatidylinositol-3,4,5-trisphosphate binding potassium ion antiporter activity transforming growth factor beta receptor, cytoplasmic mediator activity quaternary ammonium group transmembrane transporter activity quaternary ammo	/- g- g- /- /-								
glutamate binding - sodium:dicarboxylate symporter activity - oxidized DNA binding - phosphatidylinositol 3–kinase regulatory subunit binding - acetylgalactosaminyltransferase activity -	3 - / - 3 - 3 - / -								
secondary active sulfate transmembrane transporter activity inositol 1,4,5 trisphosphate binding myosin binding myosin binding carboxylic ester hydrolase activity triglyceride lipase activity.	/- g- g- /- /-								
non-membrane spanning protein tyrosine kinase activity voltage-gated sodium channel activity of the fibronectin binding of the fibronecting of the fib	/- /- g- /- 8-								
vinculin binding vinculin binding protein binding involved in heterotypic cell-cell adhesion dicarboxylic acid transmembrane transporter activity cysteine-type endopeptidase activity oxidoreductase activity, acting on CH-OH group of donors metallocarboxypeptidase activity.	n - / - / - 8 - / -								
sulfur compound transmembrane transporter activity follows the sulfur compound transmembrane transporter activity follows the sulfur compound transmembrane transporter activity follows activity follows activity follows activity follows fo	/- /- /- s-								
beta-catenin binding of phosphatidylinositol kinase activity of flavin adenine dinucleotide binding of SH2 domain binding of SH2 domain binding of the standard of the standar	] - / - ] - ] - / -								
ATPase activity, coupled to movement of substances - Rac GTPase binding - modified amino acid binding - protein kinase C activity - apolipoprotein binding - receptor tyrosine kinase binding -	] - ] - / - ] -								
- Sopici Gradina Milasa biliang	Decre mC/ (20	AG mCAC	creasing Inci mCAG m 12578) (1	nCAC (Overlapp 3466) m(	ing Gene <b>©</b> verlapp CAG m	oing Gene <b>©</b> verlapp CAC m(	oing Gene <b>©</b> verlapp CAG m(	easing bing Genes) CAC 976)	

n asymmetric synapse	non-CpG Cellular Compartment GO Enrichm	ent by Age in Neurons							
postsynaptic density postsynapse postsynaptic specialization									
neuron to neuron synapse- axon part- cell leading edge-									
synaptic membrane - potassium channel complex -									
postsynaptic membrane - extrinsic component of membrane - ion channel complex -									
extrinsic component of plasma membrane									
receptor complex- transmembrane transporter complex- cation channel complex-									
voltage-gated potassium channel complex- cell-cell junction-									
cell projection membrane neuronal cell body leading edge membrane									
site of polarized growth - growth cone - distal axon -									
cell-cell adherens junction - axoneme - lamellipodium -									
ciliary plasm - cytoplasmic region - postsynaptic density membrane -									
catenin complex -									
neuron projection membrane axon initial segment plasma membrane receptor complex									
axolemma - plasma membrane bounded cell projection cytoplasm - early endosome -									
ionotropic glutamate receptor complex - dynein complex - actomyosin -									
neuronal cell body membrane - cell body membrane - dendritic spine -									
neuron spine - extracellular matrix -									
proteinaceous extracellular matrix apical part of cell membrane microdomain									
membrane raft- membrane region- apical plasma membrane-									
actin cytoskeleton - extracellular matrix component - collagen trimer -									
plasma membrane raft - caveola - contractile fiber part -									
sarcomere - cell cortex -									
Z disc- actin-based cell projection - I band-									
myofibril - contractile fiber - basement membrane -									
cell-cell contact zone sarcolemma cytoplasmic side of plasma membrane									
endoplasmic reticulum lumen cluster of actin-based cell projections ciliary part									
basolateral plasma membrane - anchored component of membrane - stress fiber -									
contractile actin filament bundle - brush border -									
myosin complex - basal part of cell - cytoplasmic side of membrane -									
intercalated disc- filopodium- apical junction complex-									
protein complex involved in cell adhesion- sperm part- extrinsic component of cytoplasmic side of plasma membrane-									
occluding junction - cell-substrate junction - immunological synapse -									
bicellular tight junction - integrin complex -									
myofilament									
specific granule									
sodium channel complex - cornified envelope - acrosomal vesicle -									
microtubule - presynapse - myosin filament -									p.adjust
microvillus - ruffle -									- 0.01 - 0.02 - 0.03 - 0.04
basal plasma membrane - photoreceptor inner segment - vacuolar lumen -									GeneRatio  ● 0.02
kinesin complex- ciliary basal body- actin filament-									<ul><li>0.04</li><li>0.06</li><li>0.08</li></ul>
axon terminus - A band - neuron projection terminus -									
9+0 non-motile cilium - photoreceptor cell cilium - secretory granule membrane -									
cell cortex part - non-motile cilium - chloride channel complex -									
specific granule membrane lysosomal lumen ruffle membrane									
Golgi lumen - lamellipodium membrane - lateral plasma membrane -									
neuromuscular junction - node of Ranvier -									
myosin II complex									
tertiary granule									
muscle myosin complex - photoreceptor outer segment - cortical actin cytoskeleton -									
cortical cytoskeleton nuclear replication fork voltage-gated sodium channel complex									
centrosome - platelet alpha granule - secretory granule lumen -									
vesicle lumen - cytoplasmic vesicle lumen - SCF ubiquitin ligase complex -									
platelet alpha granule lumen - chromosome, centromeric region -									
motile cilium - condensed chromosome - sarcoplasm -									
neurotransmitter receptor complex- heterotrimeric G-protein complex- GTPase complex-									
presynaptic membrane - endosome membrane - histone deacetylase complex -									
T-tubule-platelet alpha granule membrane-RISC complex-									
platelet dense tubular network RNAi effector complex external side of plasma membrane									
stereocilium bundle - stereocilium - brush border membrane -									
voltage-gated calcium channel complex-									
calcium channel complex-									
calcium channel complex- complex of collagen trimers- T cell receptor complex- sarcoplasmic reticulum-								•	
calcium channel complex- complex of collagen trimers- T cell receptor complex- sarcoplasmic reticulum- basal lamina- fascia adherens- guanylate cyclase complex, soluble-									
calcium channel complex - complex of collagen trimers - T cell receptor complex - sarcoplasmic reticulum - basal lamina - fascia adherens - guanylate cyclase complex, soluble - microvillus membrane - photoreceptor disc membrane - sarcoplasmic reticulum membrane -									
calcium channel complex - complex of collagen trimers - T cell receptor complex - sarcoplasmic reticulum - basal lamina - fascia adherens - guanylate cyclase complex, soluble - microvillus membrane - photoreceptor disc membrane - sarcoplasmic reticulum membrane - clathrin-coated vesicle - endocytic vesicle - desmosome -									
calcium channel complex - complex of collagen trimers - T cell receptor complex - sarcoplasmic reticulum - basal lamina - fascia adherens - guanylate cyclase complex, soluble - microvillus membrane - photoreceptor disc membrane - sarcoplasmic reticulum membrane - clathrin-coated vesicle - endocytic vesicle -									
calcium channel complex- complex of collagen trimers  T cell receptor complex- sarcoplasmic reticulum- basal lamina- fascia adherens- guanylate cyclase complex, soluble- microvillus membrane- photoreceptor disc membrane- sarcoplasmic reticulum membrane- clathrin-coated vesicle- endocytic vesicle- desmosome- fibrillar collagen trimer- interstitial matrix-									
calcium channel complex- complex of collagen trimers  T cell receptor complex- sarcoplasmic reticulum- basal lamina- fascia adherens guanylate cyclase complex, soluble- microvillus membrane- photoreceptor disc membrane- sarcoplasmic reticulum membrane- clathrin-coated vesicle- endocytic vesicle- desmosome- fibrillar collagen trimer interstitial matrix- banded collagen fibril- dystrophin-associated glycoprotein complex- glycoprotein complex-									
calcium channel complex- complex of collagen trimers- T cell receptor complex- sarcoplasmic reticulum- basal lamina- fascia adherens- guanylate cyclase complex, soluble- microvillus membrane- photoreceptor disc membrane- sarcoplasmic reticulum membrane- clathrin-coated vesicle- endocytic vesicle- desmosome- fibrillar collagen trimer- interstitial matrix- banded collagen fibril- dystrophin-associated glycoprotein complex- glycoprotein complex- stereocilium tip- podosome- axoneme part- M band- NMDA selective glutamate receptor complex- ciliary membrane-									
calcium channel complex- complex of collagen trimers  T cell receptor complex- sarcoplasmic reticulum- basal lamina- fascia adherens- guanylate cyclase complex, soluble- microvillus membrane- photoreceptor disc membrane- sarcoplasmic reticulum membrane- clathrin-coated vesicle- endocytic vesicle- desmosome- fibrillar collagen trimer- interstitial matrix- banded collagen fibril- dystrophin-associated glycoprotein complex- glycoprotein complex- stereocilium tip- podosome- axoneme part- M band- NMDA selective glutamate receptor complex- ciliary membrane- sperm flagellum- 9+2 motile cilium- invadopodium-									
calcium channel complex- complex of collagen trimers  T cell receptor complex- sarcoplasmic reticulum- basal lamina- fascia adherens- guanylate cyclase complex, soluble- microvillus membrane- photoreceptor disc membrane- sarcoplasmic reticulum membrane- clathrin-coated vesicle- endocytic vesicle- desmosome- fibrillar collagen trimer- interstitial matrix- banded collagen fibril- dystrophin-associated glycoprotein complex- stereocilium tip- podosome- axoneme part- M band- NMDA selective glutamate receptor complex- ciliary membrane- sperm flagellum- g+2 motile cilium-									
calcium channel complex complex of collagen trimers  T cell receptor complex sarcoplasmic reticulum basal lamina-fascia adherens guanylate cyclase complex, soluble-microvillus membrane-photoreceptor disc membrane-sarcoplasmic reticulum membrane-clathrin-coated vesicle-desmosome-fibrillar collagen trimer-interstitial matrix-banded collagen fibril-dystrophin-associated glycoprotein complex-stereocilium tip-podosome-axoneme part-M band-NMDA selective glutamate receptor complex-ciliary membrane-sperm flagellum-9+2 motile cilium-invadopodium-cell cortex region-tertiary granule membrane-									
calcium channel complex complex of collagen trimers— T cell receptor complex sarcoplasmic reticulum— basal lamina— fascia adherens— guanylate cyclase complex, soluble— microvillus membrane— photoreceptor disc membrane— sarcoplasmic reticulum membrane— clathrin—coated vesicle— endocytic vesicle— desmosome— fibrillar collagen trimer— interstitial matrix— banded collagen fibril— dystrophin—associated glycoprotein complex— glycoprotein complex— stereocilium tip— podosome— axoneme part— M band— NMDA selective glutamate receptor complex— ciliary membrane— sperm flagellum— 9+2 motile cilium— invadopodium— cell cortex region— tertiary granule membrane— nuclear membrane part— integral component of nuclear inner membrane— intrinsic component of nuclear inner membrane—									
calcium channel complex complex of collagen trimers T cell receptor complex sarcoplasmic reticulum basal lamina fascia adherens guanylate cyclase complex, soluble microvillus membrane photoreceptor disc membrane sarcoplasmic reticulum membrane clathrin—coated vesicle endocytic vesicle desmosome fibrillar collagen trimer interstitial matrix banded collagen fibril dystrophin—associated glycoprotein complex stereocilium tippodosome axoneme part M band NMDA selective glutamate receptor complex ciliary membrane sperm flagellum 9+2 motile cilium invadopodium cell cortex region tertiary granule membrane nuclear membrane part integral component of nuclear inner membrane intrinsic component of nuclear inner membrane lysosomal membrane microtubule organizing center part centriole peroxisomal matrix microbody lumen									
calcium channel complex complex of collagen trimers T cell receptor complex sarcoplasmic reticulum basal lamina- fascia adherens guanylate cyclase complex, soluble microvillus membrane photoreceptor disc membrane sarcoplasmic reticulum membrane clathrin-coated vesicle desmosome fibrillar collagen trimer interstitial matrix banded collagen fibrillar dystrophin-associated glycoprotein complex stereocilium tip- podosome axoneme part M band- NMDA selective glutamate receptor complex ciliary membrane sperm flagellum 9+2 motile cilium invadopodium cell cortex region tertiary granule membrane nuclear membrane part- integral component of nuclear inner membrane intrinsic component of nuclear inner membrane microtubule organizing center part- centricle peroxisomal matrix microbody lumen coated vesicle exocyst- ficolin-1-rich granule membrane									
calcium channel complex complex of collagen trimers  T cell receptor complex sarcoplasmic reticulum basal lamina fascia adherens guanylate cyclase complex, soluble microvillus membrane photoreceptor disc membrane sarcoplasmic reticulum membrane clathrin—coated vesicle endocytic vesicle desmosome fibrillar collagen trimer interstitial matrix banded collagen fibril dystrophin—associated glycoprotein complex stereocilium tip podosome axoneme part M band NMDA selective glutamate receptor complex ciliary membrane sperm flagellum 9+2 motile cilium invadopodium cell cortex region tertiary granule membrane nuclear membrane part integral component of nuclear inner membrane intrinsic component of nuclear inner membrane microtubule organizing center part centricle peroxisomal matrix microbody lumen coated vesicle exocyst									
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bipolar disorder-	Enrichment by Age in Neurons						
urinary system disease - osteoarthritis - arteriosclerotic cardiovascular disease - atherosclerosis -							
overnutrition - arteriosclerosis - lung disease -							
obesity - myocardial infarction - nutrition disease - kidney disease -							
mood disorder - pancreatic cancer - osteoporosis -							
cerebrovascular disease - coronary artery disease - breast carcinoma - female reproductive organ cancer -							
skin disease - central nervous system cancer - integumentary system disease -							
bone resorption disease - urinary system cancer - urinary bladder cancer - cell type benign neoplasm -							
chronic obstructive pulmonary disease - thyroid gland disease - stomach cancer - organ system benign neoplasm -							
ovarian cancer- ovarian cancer- respiratory system benign neoplasm- familial hyperlipidemia-							
physical disorder - lung benign neoplasm - obstructive lung disease - pre–eclampsia -							
gallbladder cancer- gallbladder carcinoma- musculoskeletal system cancer-							
endocrine system disease - non-small cell lung carcinoma - pulmonary hypertension - adenoma -							
malignant ovarian surface epithelial-stromal neoplasm ovary epithelial cancer- ovarian carcinoma embryonal cancer-							
type 2 diabetes mellitus - dermatitis - biliary tract cancer -							
pulmonary fibrosis - brain infarction - cardiomyopathy - lipid metabolism disorder -							
stomach carcinoma - mental depression - renal carcinoma - congestive heart failure -							
pneumonia - bone remodeling disease - lung small cell carcinoma -							
ischemic bone disease - pancreatic carcinoma - autosomal recessive disease - kidney cancer -							
embryoma - interstitial lung disease - renal cell carcinoma - substance–related disorder -							
blood coagulation disease - connective tissue cancer - prostate carcinoma -							
head and neck carcinoma- large intestine cancer- head and neck cancer- colorectal cancer-							
glomerulosclerosis - focal segmental glomerulosclerosis - nephritis - cerebral infarction -							
intestinal disease - intestinal cancer - temporal lobe epilepsy -							
Graves' disease - kidney failure - intrinsic cardiomyopathy - familial hypercholesterolemia -							
esophageal cancer- parasitic infectious disease- glomerulonephritis- germ cell cancer-							
hyperthyroidism - liver cirrhosis - colon cancer -							
bladder carcinoma - leiomyoma - bone marrow cancer - thyroid cancer -							
meningioma - focal epilepsy - inherited metabolic disorder - keratoconus -							
dilated cardiomyopathy - adult respiratory distress syndrome - male reproductive organ cancer - breast adenocarcinoma -							
Alzheimer's disease - acute myocardial infarction - prostate cancer -							
tauopathy - pre-malignant neoplasm - myeloma - chondrosarcoma -							
muscle cancer- acute myeloid leukemia- rheumatic disease- systemic scleroderma-							
scleroderma - malignant glioma - corneal disease -							
muscular disease - parasitic protozoa infectious disease - colonic benign neoplasm - myeloid leukemia -							
lymphoblastic leukemia - thyroid carcinoma - Cushing's syndrome - colon adenocarcinoma -							
myopathy - muscle tissue disease - sensory system cancer -							
ocular cancer- malaria - autoimmune disease of endocrine system - peripheral nervous system neoplasm -							
morbid obesity - collagen disease - primary immunodeficiency disease - hypersensitivity reaction type I disease -							
congenital heart disease - salivary gland adenoid cystic carcinoma - anxiety disorder -							GeneRatio
polycystic ovary syndrome - retinoblastoma - retinal cell cancer - hematopoietic system disease -							<ul><li>0.02</li><li>0.04</li><li>0.06</li></ul>
upper respiratory tract disease - peripheral nervous system disease - demyelinating disease - substance abuse -							p.adjust -
in situ carcinoma - intracranial hypertension - salivary gland carcinoma -							0.04
rhabdomyosarcoma - cervical cancer - bile duct cancer - bile duct carcinoma -							
brain disease - mouth disease - allergic rhinitis - cervix carcinoma -							
cerebral malaria - skeletal muscle cancer - gastrointestinal system benign neoplasm - severe combined immunodeficiency -							
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respiratory syncytial virus infectious disease invasive lobular carcinoma osteochondritis dissecans pulmonary embolism							
lymphoid leukemia - cystic fibrosis - integumentary system cancer - skin cancer -							
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respiratory failure - hemorrhagic disease - intestinal benign neoplasm - middle ear disease -							
pancreas disease - leukocyte disease - myelofibrosis - acute lymphocytic leukemia -		)					
acute lymphocytic leukemia - purpura - essential hypertension - gallbladder disease - orofacial cleft -							
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