Names	total	elements
Acute F Acute M Protract F Protract M	1	non-membrane-bounded organelle assembly
Acute F Acute M Protract M	23	negative regulation of cellular component organization
		DNA metabolic process
		dendrite development
		cell cycle process
		cytoskeleton organization
		regulation of microtubule cytoskeleton organization
		regulation of supramolecular fiber organization
		regulation of DNA metabolic process
		regulation of cytoskeleton organization
		regulation of cellular component biogenesis
		organelle assembly
		regulation of organelle assembly
		regulation of protein-containing complex assembly
		mitotic cell cycle
		mitotic cell cycle process
		positive regulation of cellular component organization
		regulation of organelle organization
		protein localization to organelle
		microtubule-based process
		positive regulation of organelle organization
		regulation of protein polymerization
		microtubule cytoskeleton organization
		neurogenesis
Acute F Acute M Protract F	26	peptide biosynthetic process
		regulation of transport
		ribosomal small subunit biogenesis
		membrane organization
		rRNA processing
		amide biosynthetic process
		ribosome biogenesis
		establishment of protein localization
		negative regulation of protein metabolic process
		vesicle docking involved in exocytosis
		ncRNA metabolic process
		cytoplasmic translation
		organonitrogen compound biosynthetic process
		protein transport
		translation
		vesicle-mediated transport
		peptide metabolic process
		vesicle tethering involved in exocytosis
		intracellular transport
		intracellular protein transport
		cellular component disassembly
		translation at postsynapse
		rRNA metabolic process

			translation at presynapse
			amide metabolic process
			translation at synapse
Acute	M	Protract	M	14	regulation of microtubule polymerization
			regulation of synaptic plasticity
			positive regulation of cell cycle process
			protein–DNA complex organization
			chromatin remodeling
			microtubule polymerization
			postsynaptic density organization
			chromatin organization
			regulation of microtubule–based process
			nucleosome organization
			protein polymerization
			postsynaptic specialization organization
			growth
			positive regulation of synaptic transmission
Acute	F	Protract	M	3	regulation of microtubule polymerization or depolymerization
			chromosome organization
			microtubule polymerization or depolymerization
Acute	M	Protract	F	6	vesicle–mediated transport in synapse
			vesicle docking
			regulation of mitochondrion organization
			membrane docking
			organelle localization by membrane tethering
			endomembrane system organization
Acute	F	Protract	F	4	membrane fission
			ncRNA processing
			ribosomal large subunit biogenesis
			organelle disassembly
Acute	F	Acute	M	150	lamellipodium organization
			regulation of locomotion
			maturation of SSU–rRNA
			regulation of synapse structure or activity
			supramolecular fiber organization
			cellular response to peptide hormone stimulus
			regulation of translation
			response to oxidative stress
			cell junction organization
			response to xenobiotic stimulus
			cell morphogenesis
			cell cycle
			actin filament–based process
			dendritic spine development
			actin filament organization
			regulation of cell motility
			cytoskeleton–dependent cytokinesis
			neuron differentiation

protein localization to nucleus
protein localization to membrane
neuron development
regulation of GTPase activity
regulation of apoptotic signaling pathway
small molecule metabolic process
negative regulation of molecular function
organelle localization
regulation of transmembrane transport
positive regulation of transport
maintenance of protein localization in organelle
regulation of protein transport
positive regulation of protein depolymerization
ribosome assembly
positive regulation of protein metabolic process
macromolecule catabolic process
plasma membrane bounded cell projection organization
cell part morphogenesis
generation of precursor metabolites and energy
regulation of chromosome organization
regulation of vesicle-mediated transport
regulation of plasma membrane bounded cell projection assembly
positive regulation of programmed cell death
regulation of establishment of protein localization
plasma membrane bounded cell projection morphogenesis
locomotion
neuron cellular homeostasis
protein phosphorylation
generation of neurons
positive regulation of catabolic process
import into cell
cellular catabolic process
cell projection organization
regulation of plasma membrane bounded cell projection organization
positive regulation of DNA metabolic process
response to inorganic substance
postsynapse organization
cellular homeostasis
actin cytoskeleton organization
positive regulation of apoptotic process
organic acid metabolic process
cellular nitrogen compound catabolic process
positive regulation of cell projection organization
regulation of amide metabolic process
response to reactive oxygen species
neuron projection development
negative regulation of protein localization to nucleus
negative regulation of microtubule polymerization or

depolymerization
regulation of catalytic activity
regulation of intracellular signal transduction
regulation of actin filament length
regulation of anatomical structure morphogenesis
response to toxic substance
synaptic signaling
cell–cell signaling
cellular response to nitrogen compound
mitochondrion organization
phosphorylation
cell motility
actin polymerization or depolymerization
positive regulation of signaling
cell projection morphogenesis
regulation of cell morphogenesis
regulation of cell projection organization
regulation of proteolysis
negative regulation of protein polymerization
exocytic process
endocytosis
dendrite morphogenesis
positive regulation of actin filament depolymerization
positive regulation of cell communication
positive regulation of plasma membrane bounded cell projection assembly
regulation of actin polymerization or depolymerization
regulation of cell migration
regulation of protein localization
regulation of cellular localization
regulation of transferase activity
regulation of endocytosis
dendritic spine morphogenesis
positive regulation of molecular function
regulation of programmed cell death
regulation of actin cytoskeleton organization
negative regulation of organelle organization
cell migration
response to organic cyclic compound
positive regulation of locomotion
negative regulation of cytoskeleton organization
neuron projection morphogenesis
regulation of actin filament organization
regulation of synapse organization
response to corticosteroid
mitotic cytokinesis
regulation of neuron projection development
ribosomal small subunit assembly
positive regulation of catalytic activity
regulation of actin filament polymerization

		oxoacid metabolic process
		cellular response to peptide
		positive regulation of cell motility
		small GTPase mediated signal transduction
		regulation of dendrite morphogenesis
		regulation of cell projection assembly
		cell morphogenesis involved in neuron differentiation
		positive regulation of lamellipodium organization
		maintenance of protein location in cell
		regulation of dendrite development
		regulation of actin filament-based process
		central nervous system development
		establishment of organelle localization
		lamellipodium assembly
		negative regulation of protein-containing complex assembly
		regulation of monoatomic ion transmembrane transport
		vesicle targeting
		regulation of protein modification process
		carboxylic acid metabolic process
		synapse organization
		regulation of catabolic process
		regulation of cellular response to stress
		positive regulation of cell migration
		regulation of protein binding
		protein-containing complex disassembly
		vesicle tethering
		cellular response to organonitrogen compound
		cellular component morphogenesis
		transmembrane transport
		positive regulation of protein localization
		response to hydrogen peroxide
		regulation of apoptotic process
		negative regulation of supramolecular fiber organization
		localization within membrane
		regulation of anatomical structure size
		cellular response to oxygen-containing compound
Protract M	96	mRNA export from nucleus
		regulation of histone H3-K9 methylation
		nucleosome assembly
		luteolysis
		negative regulation of DNA recombination
		negative regulation of DNA-templated transcription
		DNA modification
		regulation of spindle assembly
		positive regulation of chromosome organization
		mitotic spindle organization
		positive regulation of DNA methylation
		regulation of locomotion involved in locomotory

behavior
developmental process involved in reproduction
monoamine transport
endoplasmic reticulum tubular network formation
negative regulation of gene expression, epigenetic
regulation of mitotic cell cycle phase transition
negative regulation of cell growth
regulation of membrane hyperpolarization
negative regulation of DNA metabolic process
response to heat
RNA export from nucleus
positive regulation of mitotic cell cycle phase transition
protein–DNA complex assembly
histone H3–K9 methylation
positive regulation of microtubule polymerization or depolymerization
negative regulation of growth
anterograde neuronal dense core vesicle transport
positive regulation of cell cycle
Roundabout signaling pathway
trans-synaptic signaling by BDNF
negative regulation of bicellular tight junction assembly
microtubule cytoskeleton organization involved in mitosis
negative regulation of filopodium assembly
peptidyl-lysine trimethylation
DNA methylation
negative regulation of nucleobase-containing compound metabolic process
negative regulation of RNA biosynthetic process
histone methylation
negative regulation of gene expression
regulation of DNA recombination
regulation of spindle organization
epigenetic regulation of gene expression
macromolecule methylation
T cell proliferation involved in immune response
heterochromatin organization
negative regulation of transcription by RNA polymerase II
catecholamine transport
erythrocyte development
regulation of mitotic spindle assembly
histone H3–K27 trimethylation
pointed-end actin filament capping
retrograde neuronal dense core vesicle transport
regulation of vesicle transport along microtubule
negative regulation of chromosome organization

		mitotic cell cycle phase transition
		regulation of mitotic spindle organization
		regulation of cytotoxic T cell differentiation
		regulation of cell cycle process
		microtubule nucleation
		protein methylation
		DNA alkylation
		catecholamine secretion
		negative regulation of RNA metabolic process
		methylation
		histone H3-K4 methylation
		cell cycle phase transition
		mitotic spindle assembly
		positive regulation of microtubule nucleation
		peptidyl-lysine methylation
		DNA recombination
		histone lysine methylation
		peptidyl-lysine modification
		regulation of dense core granule transport
		positive regulation of protein polymerization
		histone modification
		proprioception
		heterochromatin formation
		spindle organization
		myeloid cell development
		developmental growth involved in morphogenesis
		protein alkylation
		negative regulation of dendrite extension
		response to cortisol
		positive regulation of microtubule polymerization
		histone H3-K4 trimethylation
		regulation of primary miRNA processing
		cytotoxic T cell differentiation
		chromosome condensation
		positive regulation of nuclear cell cycle DNA replication
		positive regulation of vesicle transport along microtubule
		development of primary sexual characteristics
		long-term synaptic potentiation
		gonad development
		regulation of microtubule nucleation
		histone H3-K27 methylation
Protract F	15	amyloid-beta metabolic process
		NLS-bearing protein import into nucleus
		regulation of amyloid precursor protein catabolic process
		amyloid precursor protein catabolic process
		mitochondrial translational elongation
		positive regulation of synaptic vesicle recycling

	regulation of Golgi organization
	regulation of autophagy of mitochondrion
	positive regulation of glucocorticoid receptor signaling pathway
	regulation of glucocorticoid receptor signaling pathway
	corticosteroid receptor signaling pathway
	ubiquitin recycling
	positive regulation of intracellular steroid hormone receptor signaling pathway
	glucocorticoid receptor signaling pathway
	ribonucleoprotein complex biogenesis
Acute M 629	head development
	negative regulation of transcription of nucleolar large rRNA by RNA polymerase I
	negative regulation of nuclear-transcribed mRNA catabolic process, deadenylation-dependent decay
	regulation of arginase activity
	postsynaptic specialization assembly
	response to yeast
	regulation of biological quality
	energy derivation by oxidation of organic compounds
	regulation of long-term neuronal synaptic plasticity
	muscle cell differentiation
	synaptic transmission, glutamatergic
	response to monoamine
	regulation of neurotransmitter receptor localization to postsynaptic specialization membrane
	positive regulation of Schwann cell migration
	DNA damage response
	cytosolic transport
	regulation of neuronal synaptic plasticity
	negative regulation of synaptic transmission
	vagus nerve morphogenesis
	positive regulation of secretion by cell
	pyramidal neuron differentiation
	regulation of nucleobase-containing compound transport
	positive regulation of metabolic process
	regulation of macromolecule metabolic process
	cellular component assembly involved in morphogenesis
	intracellular monoatomic cation homeostasis
	acetylcholine-mediated vasodilation involved in regulation of systemic arterial blood pressure
	DNA repair
	response to type II interferon
	positive regulation of translation
	olefin metabolic process
	positive regulation of lamellipodium assembly
	calcium-mediated signaling
	response to nicotine

peptide secretion
maintenance of postsynaptic specialization structure
neuron projection organization
intermediate filament bundle assembly
regulation of NMDA receptor activity
positive regulation of cell differentiation
purine ribonucleotide biosynthetic process
establishment of protein localization to extracellular region
regulation of postsynaptic membrane neurotransmitter receptor levels
DNA-templated viral transcription
protein localization to cell periphery
establishment of localization in cell
multicellular organismal process
regulation of presynaptic membrane potential
ligand-gated ion channel signaling pathway
regulation of action potential firing pattern
cellular response to chemical stimulus
viral translation
regulation of nervous system development
intracellular chemical homeostasis
receptor-mediated endocytosis
regulation of sister chromatid cohesion
protein localization to postsynaptic specialization membrane
response to antibiotic
regulation of system process
response to arsenic-containing substance
positive regulation of sister chromatid cohesion
cytokinesis
regulation of biological process
pyruvate metabolic process
regulation of aspartic-type peptidase activity
calcium ion transmembrane transport
activation of GTPase activity
reactive nitrogen species metabolic process
protein trimerization
positive regulation of smooth muscle cell differentiation
response to fungicide
regulation of lamellipodium assembly
establishment of vesicle localization
maintenance of protein location
positive regulation of establishment of cell polarity regulating cell shape
behavior
calmodulin dependent kinase signaling pathway
cell differentiation
regulation of hydrolase activity

mRNA destabilization
cell division
response to abiotic stimulus
positive regulation of leukocyte chemotaxis
cellular component organization or biogenesis
peripheral nervous system development
response to stimulus
regulation of RNA export from nucleus
homeostasis of number of cells
cellular response to cytokine stimulus
positive regulation of response to stimulus
regulation of SUMO transferase activity
clathrin-dependent endocytosis
regulation of oxidative stress-induced intrinsic apoptotic signaling pathway
regulation of protein metabolic process
regulation of postsynaptic density assembly
alternative mRNA splicing, via spliceosome
sarcomere organization
protein localization to extracellular region
modulation of excitatory postsynaptic potential
postsynaptic neurotransmitter receptor internalization
protein secretion
cellular alkene metabolic process
developmental process
positive regulation of vesicle fusion
positive regulation of gliogenesis
amyloid-beta clearance by transcytosis
regulation of secretion
cell population proliferation
neurotransmitter secretion
organophosphate metabolic process
system development
vesicle transport along microtubule
inorganic cation transmembrane transport
macromolecule localization
protein localization to postsynapse
positive regulation of cell development
positive regulation of synaptic vesicle membrane organization
dendritic spine maintenance
synchronous neurotransmitter secretion
dendritic transport of messenger ribonucleoprotein complex
establishment or maintenance of cell polarity
cellular response to reactive nitrogen species
spike train
cellular response to stimulus
glial cell differentiation
localization

cognition
positive regulation of cell population proliferation
neurofilament cytoskeleton organization
regulation of organic acid transport
intracellular glucose homeostasis
multicellular organism development
muscle cell development
regulation of endoplasmic reticulum tubular network organization
oligodendrocyte differentiation
response to ischemia
regulation of peptide hormone secretion
suckling behavior
myelination
establishment of cell polarity
cellular macromolecule localization
learning or memory
positive regulation of nitric oxide biosynthetic process
regulation of postsynaptic density organization
morphogenesis of follicular epithelium
dendritic transport
axon ensheathment
organelle organization
negative regulation of cellular process
nucleosome disassembly
muscle structure development
amide transport
positive regulation of cytoplasmic translation
regulation of neuron apoptotic process
cell junction assembly
learning
regulation of Schwann cell migration
positive regulation of protein localization to membrane
locomotory behavior
regulation of chromosome segregation
chemical synaptic transmission, postsynaptic
regulation of developmental process
positive regulation of glial cell migration
response to dexamethasone
locomotory exploration behavior
positive regulation of oligodendrocyte differentiation
actomyosin structure organization
regulation of synaptic vesicle membrane organization
anterograde synaptic vesicle transport
response to other organism
pyridoxal 5'−phosphate salvage
regulation of synaptic vesicle fusion to presynaptic active zone membrane

glutamine family amino acid biosynthetic process
positive regulation of peptide secretion
regulation of presynaptic cytosolic calcium ion concentration
nervous system development
phosphatidylinositol-3-phosphate biosynthetic process
maintenance of synapse structure
regulation of cytoplasmic translation
regulation of myelination
positive regulation of endoplasmic reticulum tubular network organization
cell development
positive regulation of neuron projection development
cellular component biogenesis
regulation of nuclear-transcribed mRNA catabolic process, deadenylation-dependent decay
regulation of cell shape
regulation of nitrogen compound metabolic process
positive regulation of cell differentiation involved in phenotypic switching
pyramidal neuron development
myeloid leukocyte migration
cellular metabolic process
response to estradiol
calcium ion transport
nucleoside triphosphate biosynthetic process
regulation of mRNA splicing, via spliceosome
regulation of kinase activity
establishment of localization
cellular developmental process
neurotransmitter receptor localization to postsynaptic specialization membrane
regulation of localization
cellular process
phosphatidylinositol phosphate biosynthetic process
regulation of attachment of spindle microtubules to kinetochore
positive regulation of receptor clustering
intermediate filament organization
synaptic vesicle transport along microtubule
actin filament bundle organization
regulation of gliogenesis
insulin secretion
transport
presynaptic endocytosis
long-chain fatty acid import into cell
cerebral cortex development
axon development
hormone secretion
short-chain fatty acid metabolic process

regulation of protein-glutamine gamma-glutamyltransferase activity
cellular response to calcium ion
establishment of cell polarity regulating cell shape
regulation of postsynaptic cytosolic calcium ion concentration
positive regulation of DNA topoisomerase (ATP-hydrolyzing) activity
regulation of neurotransmitter receptor activity
fast, calcium ion-dependent exocytosis of neurotransmitter
regulation of DNA catabolic process
alditol phosphate metabolic process
regulation of NAD metabolic process
organonitrogen compound metabolic process
fibroblast proliferation
cellular response to corticosteroid stimulus
glycerolipid metabolic process
cellular response to inorganic substance
positive regulation of reactive oxygen species biosynthetic process
regulation of response to stimulus
glucose homeostasis
axo-dendritic transport
monoatomic cation homeostasis
positive regulation of hydrogen peroxide biosynthetic process
response to glycine
anterograde trans-synaptic signaling
synaptic vesicle fusion to presynaptic active zone membrane
homeostatic process
CRD-mediated mRNA stabilization
phosphate-containing compound metabolic process
regulation of cobalamin metabolic process
cell death
regulation of peptide transport
ribonucleotide biosynthetic process
lipid metabolic process
cellular response to nitric oxide
arginine catabolic process to glutamate
positive regulation of histone acetylation
intracellular lipid transport
regulation of neurotransmitter secretion
positive regulation of protein-glutamine gamma-glutamyltransferase activity
synaptic transmission, serotonergic
cellular response to chromate
intracellular calcium ion homeostasis
postsynaptic cytoskeleton organization

organic substance transport
negative regulation of iron ion import across plasma membrane
regulation of stem cell differentiation
regulation of RNA splicing
maintenance of postsynaptic density structure
cellular nitrogen compound biosynthetic process
sequestering of actin monomers
positive regulation of multicellular organismal process
secretion
regulation of reactive oxygen species biosynthetic process
primary metabolic process
regulation of organelle transport along microtubule
positive regulation of RNA export from nucleus
modulation of chemical synaptic transmission
apoptotic mitochondrial changes
regulation of trans-synaptic signaling
regulation of alternative mRNA splicing, via spliceosome
cellular response to metal ion
regulation of hormone secretion
ATP metabolic process
cell-substrate junction organization
endosome organization
action potential
protein heterooligomerization
positive regulation of glial cell differentiation
positive regulation of peptide hormone secretion
excitatory postsynaptic potential
dosage compensation
regulation of postsynapse organization
social behavior
nitrogen compound metabolic process
reactive oxygen species metabolic process
protein-DNA complex disassembly
protein tetramerization
neuron recognition
monocarboxylic acid metabolic process
response to calcium ion
establishment or maintenance of polarity of follicular epithelium
positive regulation of arginase activity
gliogenesis
leukocyte chemotaxis
regulation of unidimensional cell growth
postsynaptic modulation of chemical synaptic transmission
erythrophore differentiation

regulation of cell communication
vesicle localization
nuclear-transcribed mRNA catabolic process, deadenylation-dependent decay
negative regulation of oligodendrocyte progenitor proliferation
regulation of primary metabolic process
anterograde axonal transport
positive regulation of hydrogen peroxide metabolic process
regulation of cytosolic calcium ion concentration
brain development
regulation of muscle cell apoptotic process
negative regulation of Ras protein signal transduction
positive regulation of cellular process
90S preribosome assembly
synaptic vesicle endocytosis
response to sodium arsenite
neural precursor cell proliferation
arginine catabolic process to proline
vocalization behavior
signal release
positive regulation of synaptic transmission, glutamatergic
positive regulation of leukocyte migration
monoatomic cation transmembrane transport
regulation of signaling receptor activity
positive regulation of nitric oxide metabolic process
regulation of molecular function
positive regulation of hydrolase activity
receptor internalization
respiratory electron transport chain
dendritic transport of ribonucleoprotein complex
ATP biosynthetic process
positive regulation of vascular associated smooth muscle cell differentiation involved in phenotypic switching
carbohydrate homeostasis
exploration behavior
establishment of protein localization to chromatin
nitrate catabolic process
regulation of protein localization to membrane
nitric oxide metabolic process
developmental maturation
positive regulation of synaptic vesicle fusion to presynaptic active zone membrane
negative regulation of long-term synaptic potentiation
cytoskeleton-dependent intracellular transport
regulation of secretion by cell
monoatomic ion transport
regulation of synaptic vesicle exocytosis

neuronal action potential
positive regulation of mRNA catabolic process
positive regulation of keratinocyte differentiation
regulation of synapse assembly
catabolic process
positive regulation of protein localization to cell
leading edge
inorganic ion homeostasis
positive regulation of isomerase activity
positive regulation of DNA repair
positive regulation of SUMO transferase activity
protein localization to synapse
response to salt
neuron apoptotic process
RNA destabilization
negative regulation of biological process
oligodendrocyte progenitor proliferation
regulation of protein secretion
regulation of postsynaptic membrane potential
regulation of establishment of cell polarity
regulating cell shape
positive regulation of secretion
Schwann cell migration
synapse assembly
protein localization
response to alkaloid
cellular response to dexamethasone stimulus
double-strand break repair
establishment or maintenance of bipolar cell polarity
telencephalon development
dicarboxylic acid metabolic process
regulation of cAMP-dependent protein kinase activity
spontaneous synaptic transmission
cellular response to salt
protein metabolic process
secretion by cell
lipid modification
lysosomal protein catabolic process
glycerophospholipid metabolic process
intrinsic apoptotic signaling pathway
regulation of receptor internalization
regulation of transcription by RNA polymerase I
exocytosis
regulation of multicellular organismal development
second-messenger-mediated signaling
regulation of lamellipodium organization
maintenance of location
postsynaptic neurotransmitter receptor diffusion
trapping
axonal transport

axonal transport of mitochondrion
negative regulation of neuron apoptotic process
cellular organohalogen metabolic process
negative regulation of cell morphogenesis
regulation of synaptic transmission, glutamatergic
ionotropic glutamate receptor signaling pathway
response to glucocorticoid
regulation of mRNA metabolic process
hormone transport
response to organonitrogen compound
protein localization to plasma membrane
regulation of apoptotic DNA fragmentation
glutamate receptor signaling pathway
regulation of cellular component size
regulation of cellular component organization
intracellular signal transduction
regulation of multicellular organismal process
regulation of peptide secretion
positive regulation of dendrite development
response to cocaine
intrinsic apoptotic signaling pathway in response to oxidative stress
phosphatidylinositol metabolic process
nitrogen compound transport
neurotransmitter receptor diffusion trapping
negative regulation of amide metabolic process
protein-containing complex organization
long-term synaptic depression
monoatomic cation transport
apoptotic process
chemical synaptic transmission
associative learning
negative regulation of unidimensional cell growth
microtubule-based movement
central nervous system neuron development
regulation of DNA repair
cellular response to insulin-like growth factor stimulus
extrinsic apoptotic signaling pathway
calcium-dependent activation of synaptic vesicle fusion
establishment or maintenance of apical/basal cell polarity
regulation of signaling
metal ion transport
synaptic vesicle exocytosis
regulation of transcription of nucleolar large rRNA by RNA polymerase I
synaptic vesicle cytoskeletal transport
regulation of isomerase activity

metabolic process
negative regulation of programmed cell death
RNA localization to chromatin
regulation of cellular catabolic process
propylene metabolic process
mitochondrion localization
anatomical structure development
chemorepulsion of branchiomotor axon
response to oxygen-containing compound
positive regulation of cobalamin metabolic process
amyloid-beta clearance
clathrin coat assembly
regulation of extrinsic apoptotic signaling pathway
programmed cell death
negative regulation of protein localization
hemopoiesis
positive regulation of nervous system development
response to catecholamine
protein-containing complex assembly
negative regulation of cardiac muscle cell contraction
cell chemotaxis
monoatomic ion transmembrane transport
response to alcohol
regulation of cell development
regulation of hydrogen peroxide biosynthetic process
response to ethanol
response to stress
protein complex oligomerization
organelle transport along microtubule
regulation of axonogenesis
regulated exocytosis
regulation of reactive oxygen species metabolic process
forebrain development
dendritic spine organization
synaptic vesicle recycling
positive regulation of reactive oxygen species metabolic process
memory
calcium ion homeostasis
protein heterotetramerization
positive regulation of calcium ion-dependent exocytosis of neurotransmitter
regulation of mRNA stability
regulation of DNA topoisomerase (ATP-hydrolyzing) activity
response to epinephrine
peptide hormone secretion
regulation of monoatomic ion transport
positive regulation of myoblast differentiation

regulation of long-chain fatty acid import into cell
vesicle organization
positive regulation of binding
clathrin-dependent synaptic vesicle endocytosis
cellular component maintenance
regulation of cell population proliferation
peptide transport
AV node cell-bundle of His cell adhesion involved in cell communication
receptor diffusion trapping
regulation of dopamine secretion
response to cytokine
regulation of sister chromatid segregation
cellular response to organic substance
regulation of oligodendrocyte differentiation
neurotransmitter transport
regulation of cell cycle
microtubule polymerization based movement
cell junction maintenance
intracellular glutamate homeostasis
positive regulation of biological process
vesicle fusion to plasma membrane
response to external stimulus
positive regulation of neurogenesis
monoatomic ion homeostasis
phosphorus metabolic process
cellular component organization
regulation of neurotransmitter levels
regulation of neurogenesis
aerobic respiration
response to metal ion
regulation of cell differentiation
pallium development
signaling
establishment of mitochondrion localization, microtubule-mediated
regulation of growth
negative regulation of microtubule polymerization
regulation of cell junction assembly
anatomical structure morphogenesis
cellular response to stress
postsynaptic endocytosis
regulation of intrinsic apoptotic signaling pathway
positive regulation of developmental process
dopamine secretion
regulation of protein localization to cell periphery
establishment of planar polarity of follicular epithelium
regulation of mRNA processing
nitric oxide catabolic process

response to light stimulus
positive regulation of endosome organization
positive regulation of nucleobase-containing compound transport
glycerolipid biosynthetic process
response to UV
inorganic ion transmembrane transport
cellular organofluorine metabolic process
positive regulation of cellular catabolic process
establishment of mitochondrion localization by microtubule attachment
regulation of hydrogen peroxide metabolic process
regulation of insulin secretion
intracellular amino acid homeostasis
phospholipid metabolic process
proton transmembrane transport
regulation of neurotransmitter transport
hydrogen peroxide metabolic process
lipid import into cell
regulation of binding
postsynapse assembly
synaptic vesicle membrane organization
transport along microtubule
biological regulation
vesicle budding from membrane
ensheathment of neurons
regulation of double-strand break repair
axon regeneration
regulation of oligodendrocyte progenitor proliferation
negative regulation of actin filament bundle assembly
regulation of glial cell differentiation
negative regulation of apoptotic process
cellular component assembly
positive regulation of GTPase activity
cell communication
mitochondrial DNA catabolic process
response to selenium ion
axonogenesis
organophosphate biosynthetic process
negative regulation of blood circulation
response to organic substance
regulation of mammary gland epithelial cell proliferation
positive regulation of double-strand break repair
regulation of cellular process
response to radiation
regulation of protein localization to plasma membrane
negative regulation of transcription by RNA polymerase I
protein localization to postsynaptic membrane

neurofilament bundle assembly
response to axon injury
negative regulation of dendritic spine maintenance
regulation of small molecule metabolic process
response to nitrogen compound
signal release from synapse
arginine catabolic process to proline via ornithine
synaptic vesicle cycle
negative regulation of interleukin-18-mediated signaling pathway
apoptotic signaling pathway
positive regulation of attachment of spindle microtubules to kinetochore
organic substance metabolic process
response to gamma radiation
regulation of response to calcium ion
chemical homeostasis
microtubule-based transport
cellular response to type II interferon
negative regulation of ventricular cardiac muscle cell action potential
negative regulation of postsynaptic density organization
establishment of mitochondrion localization
export from cell
regulation of metabolic process
actin filament bundle assembly
actin filament fragmentation
phosphatidylinositol-mediated signaling
positive regulation of nitrogen compound metabolic process
regulation of dendritic spine maintenance
regulation of cell-substrate adhesion
regulation of aspartic-type endopeptidase activity involved in amyloid precursor protein catabolic process
maintenance of location in cell
mitochondrion transport along microtubule
oxidative phosphorylation
protein homooligomerization
leukocyte migration
calcium ion export across plasma membrane
intracellular monoatomic ion homeostasis
positive regulation of calcium ion-dependent exocytosis
electron transport chain
neurotransmitter receptor internalization
regulation of membrane potential
cellular localization
protein-containing complex localization
response to cation stress

	cellular response to caloric restriction
	postsynaptic intermediate filament cytoskeleton organization
	trans-synaptic signaling
	regulation of nervous system process
	developmental growth
	positive regulation of excitatory postsynaptic potential
	nitric oxide biosynthetic process
	cellular respiration
	regulation of vesicle fusion
Acute F 216	cellular response to UV
	positive regulation of transferase activity
	regulation of calcium ion transmembrane transporter activity
	positive regulation of signal transduction by p53 class mediator
	regulation of cytoplasmic mRNA processing body assembly
	regulation of proteolysis involved in protein catabolic process
	cellular response to light stimulus
	regulation of transporter activity
	negative regulation of mRNA metabolic process
	nuclear-transcribed mRNA catabolic process
	tube development
	regulation of canonical Wnt signaling pathway
	ribosomal large subunit assembly
	regulation of intracellular steroid hormone receptor signaling pathway
	response to angiotensin
	actin filament severing
	regulation of telomere maintenance via telomerase
	positive regulation of protein localization to chromosome, telomeric region
	positive regulation of protein transport
	positive regulation of telomere maintenance
	regulation of intracellular estrogen receptor signaling pathway
	positive regulation of phosphate metabolic process
	peptidyl-serine modification
	protein autophosphorylation
	hexose transmembrane transport
	positive regulation of protein-containing complex disassembly
	regulation of barbed-end actin filament capping
	cellular response to radiation
	NAD metabolic process
	positive regulation of signal transduction
	response to mineralocorticoid

telomere maintenance via telomerase
negative regulation of protein modification by small protein conjugation or removal
negative regulation of plasma membrane bounded cell projection assembly
negative regulation of protein-containing complex disassembly
response to steroid hormone
negative regulation of ubiquitin protein ligase activity
negative regulation of synapse organization
positive regulation of supramolecular fiber organization
proteolysis involved in protein catabolic process
intracellular monoatomic anion homeostasis
negative regulation of GTPase activity
regulation of monoatomic ion transmembrane transporter activity
response to endoplasmic reticulum stress
negative regulation of protein depolymerization
negative regulation of protein modification process
glucose transmembrane transport
regulation of microtubule depolymerization
cellular response to endogenous stimulus
modification-dependent protein catabolic process
regulation of protein maturation
response to ketone
positive regulation of transmembrane transport
cell projection assembly
modulation by host of viral process
microtubule depolymerization
peptidyl-serine phosphorylation
negative regulation of transferase activity
regulation of DNA damage response, signal transduction by p53 class mediator resulting in transcription of p21 class mediator
cellular response to mineralocorticoid stimulus
monosaccharide transmembrane transport
positive regulation of kinase activity
positive regulation of intracellular signal transduction
peptidyl-cysteine S-nitrosylation
ruffle assembly
PERK-mediated unfolded protein response
regulation of protein localization to chromosome, telomeric region
regulation of phosphorylation
response to methylmercury
positive regulation by host of viral process
positive regulation of cellular component biogenesis
positive regulation of protein modification process

regulation of Wnt signaling pathway
protein nitrosylation
tube morphogenesis
positive regulation of cytoskeleton organization
heterocycle catabolic process
ubiquitin-dependent protein catabolic process
Ras protein signal transduction
response to rapamycin
positive regulation of phosphorylation
regulation of Ras protein signal transduction
regulation of translational initiation in response to stress
rhythmic process
regulation of transmembrane transporter activity
regulation of response to stress
G protein-coupled receptor signaling pathway involved in heart process
negative regulation of catalytic activity
regulation of phospholipid translocation
regulation of ubiquitin-protein transferase activity
carbohydrate transmembrane transport
negative regulation of catabolic process
regulation of ubiquitin protein ligase activity
regulation of phosphate metabolic process
neural tube formation
actin filament depolymerization
regulation of signal transduction by p53 class mediator
primary neural tube formation
intracellular steroid hormone receptor signaling pathway
growth hormone receptor signaling pathway
negative regulation of anoikis
regulation of protein modification by small protein conjugation or removal
positive regulation of MAP kinase activity
Golgi vesicle transport
NADH metabolic process
positive regulation of Wnt signaling pathway
embryonic epithelial tube formation
positive regulation of apoptotic signaling pathway
organonitrogen compound catabolic process
follicle-stimulating hormone signaling pathway
response to endogenous stimulus
telomere maintenance
neural tube closure
negative regulation of microtubule depolymerization
regulation of telomere maintenance
positive regulation of protein-containing complex assembly

intracellular chloride ion homeostasis
regulation of protein-containing complex disassembly
binding of sperm to zona pellucida
regulation of telomerase activity
response to growth hormone
negative regulation of protein ubiquitination
organic cyclic compound catabolic process
regulation of protein phosphorylation
regulation of sulfur metabolic process
protein acylation
positive regulation of gene expression
positive regulation of protein binding
regulation of ruffle assembly
peptidyl-amino acid modification
telomere maintenance via telomere lengthening
response to topologically incorrect protein
regulation of small GTPase mediated signal transduction
cellular response to hormone stimulus
positive regulation of protein phosphorylation
regulation of protein stability
positive regulation of telomere maintenance via telomere lengthening
protein maturation
regulation of translation in response to endoplasmic reticulum stress
regulation of phospholipid transport
formaldehyde metabolic process
positive regulation of protein catabolic process
nicotinamide nucleotide metabolic process
pyridine nucleotide metabolic process
positive regulation of phosphorus metabolic process
regulation of cation channel activity
heme metabolic process
protein stabilization
positive regulation of protein kinase activity
negative regulation of endoplasmic reticulum stress-induced eIF2 alpha phosphorylation
eiF2alpha phosphorylation in response to endoplasmic reticulum stress
cellular response to chemical stress
steroid hormone mediated signaling pathway
regulation of establishment of protein localization to telomere
positive regulation of DNA biosynthetic process
iron coordination entity transport
tube formation
cellular response to angiotensin
response to aldosterone
cellular response to reactive oxygen species

regulation of glucose transmembrane transport
mRNA catabolic process
negative regulation of protein phosphorylation
cell–cell recognition
regulation of establishment of protein localization to chromosome
negative regulation of actin filament depolymerization
positive regulation of establishment of protein localization to telomere
telomere organization
proteasome assembly
regulation of translation initiation in response to endoplasmic reticulum stress
regulation of protein depolymerization
regulation of translational initiation by eIF2 alpha phosphorylation
establishment of protein localization to chromosome
positive regulation of endocytosis
nuclear transport
activation of protein kinase activity
DNA biosynthetic process
anatomical structure formation involved in morphogenesis
cellular response to hydrogen peroxide
acetate ester transport
proteasomal protein catabolic process
regulation of telomere maintenance via telomere lengthening
cellular response to steroid hormone stimulus
RNA catabolic process
macrophage proliferation
progesterone receptor signaling pathway
porphyrin–containing compound metabolic process
endoplasmic reticulum to Golgi vesicle–mediated transport
regulation of actin filament depolymerization
acetylcholine transport
nucleocytoplasmic transport
regulation of phosphorus metabolic process
nucleobase–containing compound catabolic process
regulation of DNA biosynthetic process
aggresome assembly
protein localization to chromosome
modification–dependent macromolecule catabolic process
regulation of protein localization to chromatin
protein catabolic process
protein depolymerization
positive regulation of establishment of protein localization
aromatic compound catabolic process

intracellular estrogen receptor signaling pathway
response to hormone
ovulation cycle
RNA-templated DNA biosynthetic process
post-Golgi vesicle-mediated transport
regulation of protein localization to nucleus
proteolysis
pyridine-containing compound metabolic process
positive regulation of ruffle assembly
peptidyl-cysteine modification
regulation of cell growth
plasma membrane bounded cell projection assembly
cellular response to oxidative stress
regulation of monoatomic cation transmembrane transport