|  |  |  |
| --- | --- | --- |
| **DLS** | | |
| Names | total | elements |
| Acute M Protract F Protract M | 1 | positive regulation of protein metabolic process |
| Acute F Protract F Protract M | 170 | head development |
|  |  | regulation of locomotion |
|  |  | ribonucleoside triphosphate metabolic process |
|  |  | negative regulation of cellular component organization |
|  |  | energy derivation by oxidation of organic compounds |
|  |  | peptide biosynthetic process |
|  |  | supramolecular fiber organization |
|  |  | cell junction organization |
|  |  | cell morphogenesis |
|  |  | actin filament-based process |
|  |  | purine ribonucleotide biosynthetic process |
|  |  | regulation of postsynaptic membrane neurotransmitter receptor levels |
|  |  | protein localization to cell periphery |
|  |  | actin filament organization |
|  |  | regulation of transport |
|  |  | protein folding |
|  |  | regulation of cell motility |
|  |  | membrane organization |
|  |  | neuron differentiation |
|  |  | vesicle-mediated transport in synapse |
|  |  | protein localization to membrane |
|  |  | positive regulation of protein transport |
|  |  | neuron development |
|  |  | cell division |
|  |  | response to abiotic stimulus |
|  |  | nucleoside phosphate metabolic process |
|  |  | peptidyl-serine modification |
|  |  | cytoskeleton organization |
|  |  | small molecule metabolic process |
|  |  | cell adhesion |
|  |  | regulation of secretion |
|  |  | organophosphate metabolic process |
|  |  | inorganic cation transmembrane transport |
|  |  | establishment of protein localization |
|  |  | establishment or maintenance of cell polarity |
|  |  | negative regulation of protein metabolic process |
|  |  | organelle localization |
|  |  | positive regulation of transport |
|  |  | cell junction assembly |
|  |  | regulation of protein transport |
|  |  | nucleoside phosphate biosynthetic process |
|  |  | macromolecule catabolic process |
|  |  | plasma membrane bounded cell projection organization |
|  |  | cell part morphogenesis |
|  |  | generation of precursor metabolites and energy |
|  |  | cell morphogenesis involved in differentiation |
|  |  | regulation of vesicle-mediated transport |
|  |  | nucleoside triphosphate biosynthetic process |
|  |  | peptidyl-serine phosphorylation |
|  |  | ribonucleotide metabolic process |
|  |  | purine nucleoside triphosphate biosynthetic process |
|  |  | regulation of establishment of protein localization |
|  |  | plasma membrane bounded cell projection morphogenesis |
|  |  | locomotion |
|  |  | axon development |
|  |  | generation of neurons |
|  |  | cellular catabolic process |
|  |  | anterograde trans-synaptic signaling |
|  |  | cell projection organization |
|  |  | regulation of plasma membrane bounded cell projection organization |
|  |  | response to inorganic substance |
|  |  | ribonucleotide biosynthetic process |
|  |  | carbohydrate derivative biosynthetic process |
|  |  | postsynapse organization |
|  |  | cellular homeostasis |
|  |  | proton motive force-driven ATP synthesis |
|  |  | actin cytoskeleton organization |
|  |  | organic acid metabolic process |
|  |  | secretion |
|  |  | positive regulation of cellular component biogenesis |
|  |  | positive regulation of cell projection organization |
|  |  | modulation of chemical synaptic transmission |
|  |  | regulation of trans-synaptic signaling |
|  |  | purine ribonucleotide metabolic process |
|  |  | neuron projection development |
|  |  | ATP metabolic process |
|  |  | regulation of catalytic activity |
|  |  | nucleotide biosynthetic process |
|  |  | regulation of anatomical structure morphogenesis |
|  |  | ribose phosphate biosynthetic process |
|  |  | brain development |
|  |  | positive regulation of cellular component organization |
|  |  | organonitrogen compound biosynthetic process |
|  |  | synaptic signaling |
|  |  | signal release |
|  |  | cell-cell signaling |
|  |  | nucleobase-containing small molecule metabolic process |
|  |  | monoatomic cation transmembrane transport |
|  |  | nucleotide metabolic process |
|  |  | respiratory electron transport chain |
|  |  | regulation of protein localization to membrane |
|  |  | protein transport |
|  |  | translation |
|  |  | mitochondrion organization |
|  |  | regulation of secretion by cell |
|  |  | monoatomic ion transport |
|  |  | phosphorylation |
|  |  | cell motility |
|  |  | organonitrogen compound catabolic process |
|  |  | response to endogenous stimulus |
|  |  | cell projection morphogenesis |
|  |  | regulation of cell morphogenesis |
|  |  | synapse assembly |
|  |  | vesicle-mediated transport |
|  |  | regulation of cell projection organization |
|  |  | peptide metabolic process |
|  |  | secretion by cell |
|  |  | nucleoside triphosphate metabolic process |
|  |  | cell-substrate adhesion |
|  |  | purine-containing compound metabolic process |
|  |  | response to organonitrogen compound |
|  |  | protein localization to plasma membrane |
|  |  | purine nucleotide biosynthetic process |
|  |  | purine ribonucleoside triphosphate metabolic process |
|  |  | regulation of cellular component size |
|  |  | protein polymerization |
|  |  | mitochondrial respiratory chain complex assembly |
|  |  | chemical synaptic transmission |
|  |  | regulation of cell migration |
|  |  | regulation of protein localization |
|  |  | regulation of cellular localization |
|  |  | positive regulation of molecular function |
|  |  | intracellular transport |
|  |  | intracellular protein transport |
|  |  | cell migration |
|  |  | regulation of organelle organization |
|  |  | monoatomic ion transmembrane transport |
|  |  | cell-matrix adhesion |
|  |  | neuron projection morphogenesis |
|  |  | regulation of monoatomic ion transport |
|  |  | purine nucleoside triphosphate metabolic process |
|  |  | regulation of neuron projection development |
|  |  | cellular component disassembly |
|  |  | positive regulation of catalytic activity |
|  |  | oxoacid metabolic process |
|  |  | regulation of neurogenesis |
|  |  | aerobic respiration |
|  |  | cell morphogenesis involved in neuron differentiation |
|  |  | purine-containing compound biosynthetic process |
|  |  | carbohydrate derivative metabolic process |
|  |  | inorganic ion transmembrane transport |
|  |  | central nervous system development |
|  |  | ribonucleoside triphosphate biosynthetic process |
|  |  | amide metabolic process |
|  |  | purine ribonucleoside triphosphate biosynthetic process |
|  |  | regulation of protein modification process |
|  |  | carboxylic acid metabolic process |
|  |  | synapse organization |
|  |  | axonogenesis |
|  |  | neurogenesis |
|  |  | organophosphate biosynthetic process |
|  |  | ribose phosphate metabolic process |
|  |  | small molecule biosynthetic process |
|  |  | response to nitrogen compound |
|  |  | synaptic vesicle cycle |
|  |  | protein catabolic process |
|  |  | positive regulation of establishment of protein localization |
|  |  | purine nucleotide metabolic process |
|  |  | export from cell |
|  |  | oxidative phosphorylation |
|  |  | cellular component morphogenesis |
|  |  | transmembrane transport |
|  |  | electron transport chain |
|  |  | positive regulation of protein localization |
|  |  | protein-containing complex localization |
|  |  | trans-synaptic signaling |
|  |  | localization within membrane |
|  |  | regulation of anatomical structure size |
|  |  | cellular respiration |
|  |  | cellular response to oxygen-containing compound |
| Protract F Protract M | 92 | regulation of metal ion transport |
|  |  | regulation of proteolysis involved in protein catabolic process |
|  |  | amino acid biosynthetic process |
|  |  | intracellular monoatomic cation homeostasis |
|  |  | intracellular chemical homeostasis |
|  |  | positive regulation of monoatomic ion transport |
|  |  | reactive nitrogen species metabolic process |
|  |  | negative regulation of transmembrane transport |
|  |  | fatty acid metabolic process |
|  |  | monoamine transport |
|  |  | regulation of ubiquitin-dependent protein catabolic process |
|  |  | cellular ketone metabolic process |
|  |  | glial cell differentiation |
|  |  | regulation of transmembrane transport |
|  |  | proteolysis involved in protein catabolic process |
|  |  | positive regulation of protein localization to membrane |
|  |  | chaperone-mediated protein complex assembly |
|  |  | modification-dependent protein catabolic process |
|  |  | regulation of intracellular protein transport |
|  |  | regulation of proteasomal ubiquitin-dependent protein catabolic process |
|  |  | positive regulation of transmembrane transport |
|  |  | regulation of kinase activity |
|  |  | cell projection assembly |
|  |  | actin filament bundle organization |
|  |  | carboxylic acid biosynthetic process |
|  |  | neuron cellular homeostasis |
|  |  | negative regulation of cell projection organization |
|  |  | protein phosphorylation |
|  |  | negative regulation of locomotion |
|  |  | monoatomic cation homeostasis |
|  |  | homeostatic process |
|  |  | positive regulation of DNA metabolic process |
|  |  | regulation of phosphorylation |
|  |  | proteasome-mediated ubiquitin-dependent protein catabolic process |
|  |  | protein localization to cell junction |
|  |  | intracellular calcium ion homeostasis |
|  |  | methylglyoxal metabolic process |
|  |  | positive regulation of multicellular organismal process |
|  |  | positive regulation of protein modification process |
|  |  | ubiquitin-dependent protein catabolic process |
|  |  | cell-cell adhesion |
|  |  | regulation of nitric oxide metabolic process |
|  |  | monocarboxylic acid metabolic process |
|  |  | gliogenesis |
|  |  | regulation of phosphate metabolic process |
|  |  | nitric oxide metabolic process |
|  |  | regulation of sodium ion transmembrane transport |
|  |  | regulation of sodium ion transport |
|  |  | negative regulation of cell motility |
|  |  | negative regulation of cell death |
|  |  | inorganic ion homeostasis |
|  |  | catecholamine transport |
|  |  | positive regulation of protein-containing complex assembly |
|  |  | regulation of protein phosphorylation |
|  |  | response to nutrient |
|  |  | positive regulation of protein binding |
|  |  | central nervous system neuron development |
|  |  | regulation of protein stability |
|  |  | regulation of transferase activity |
|  |  | protein stabilization |
|  |  | protein localization to organelle |
|  |  | response to organic cyclic compound |
|  |  | forebrain development |
|  |  | calcium ion homeostasis |
|  |  | positive regulation of intracellular transport |
|  |  | positive regulation of binding |
|  |  | regulation of protein catabolic process |
|  |  | monoatomic ion homeostasis |
|  |  | regulation of growth |
|  |  | positive regulation of developmental process |
|  |  | regulation of protein localization to cell periphery |
|  |  | proteasomal protein catabolic process |
|  |  | regulation of binding |
|  |  | regulation of monoatomic ion transmembrane transport |
|  |  | regulation of phosphorus metabolic process |
|  |  | regulation of protein localization to plasma membrane |
|  |  | regulation of catabolic process |
|  |  | regulation of cellular response to stress |
|  |  | regulation of proteasomal protein catabolic process |
|  |  | growth |
|  |  | regulation of protein binding |
|  |  | modification-dependent macromolecule catabolic process |
|  |  | chemical homeostasis |
|  |  | organic acid biosynthetic process |
|  |  | actin filament bundle assembly |
|  |  | positive regulation of intracellular protein transport |
|  |  | regulation of cell size |
|  |  | intracellular monoatomic ion homeostasis |
|  |  | proteolysis |
|  |  | plasma membrane bounded cell projection assembly |
|  |  | developmental growth |
|  |  | regulation of monoatomic cation transmembrane transport |
| Acute F Protract M | 121 | establishment of protein localization to membrane |
|  |  | regulation of synapse structure or activity |
|  |  | actin filament polymerization |
|  |  | positive regulation of secretion by cell |
|  |  | response to oxidative stress |
|  |  | dendrite development |
|  |  | neuron migration |
|  |  | dendritic spine development |
|  |  | neuromuscular process |
|  |  | regulation of nervous system development |
|  |  | receptor-mediated endocytosis |
|  |  | cytokinesis |
|  |  | establishment of vesicle localization |
|  |  | behavior |
|  |  | regulation of hydrolase activity |
|  |  | NADH dehydrogenase complex assembly |
|  |  | regulation of GTPase activity |
|  |  | postsynaptic neurotransmitter receptor internalization |
|  |  | neurotransmitter secretion |
|  |  | developmental cell growth |
|  |  | regulation of receptor-mediated endocytosis |
|  |  | cognition |
|  |  | regulation of supramolecular fiber organization |
|  |  | positive regulation of supramolecular fiber organization |
|  |  | vesicle docking involved in exocytosis |
|  |  | learning or memory |
|  |  | amide transport |
|  |  | learning |
|  |  | locomotory behavior |
|  |  | vesicle docking |
|  |  | regulation of cytoskeleton organization |
|  |  | regulation of cellular component biogenesis |
|  |  | cell growth |
|  |  | organelle assembly |
|  |  | dephosphorylation |
|  |  | regulation of cell shape |
|  |  | nucleus localization |
|  |  | regulation of protein-containing complex assembly |
|  |  | postsynaptic density organization |
|  |  | regulation of cell death |
|  |  | negative regulation of signal transduction |
|  |  | axo-dendritic transport |
|  |  | positive regulation of cell growth |
|  |  | establishment of protein localization to mitochondrion |
|  |  | lipid metabolic process |
|  |  | phenol-containing compound metabolic process |
|  |  | cytoplasmic translation |
|  |  | Ras protein signal transduction |
|  |  | cell-substrate junction organization |
|  |  | regulation of intracellular signal transduction |
|  |  | neuron projection extension |
|  |  | regulation of actin filament length |
|  |  | negative regulation of response to stimulus |
|  |  | membrane docking |
|  |  | Golgi to plasma membrane transport |
|  |  | vesicle localization |
|  |  | inorganic anion transmembrane transport |
|  |  | synaptic vesicle endocytosis |
|  |  | cellular response to nitrogen compound |
|  |  | positive regulation of hydrolase activity |
|  |  | receptor internalization |
|  |  | nuclear migration |
|  |  | Golgi vesicle transport |
|  |  | amine transport |
|  |  | cytoskeleton-dependent intracellular transport |
|  |  | actin polymerization or depolymerization |
|  |  | calcium-ion regulated exocytosis |
|  |  | organelle localization by membrane tethering |
|  |  | ameboidal-type cell migration |
|  |  | exocytosis |
|  |  | exocytic process |
|  |  | endocytosis |
|  |  | dendrite morphogenesis |
|  |  | monoatomic cation transport |
|  |  | regulation of actin polymerization or depolymerization |
|  |  | organic hydroxy compound metabolic process |
|  |  | metal ion transport |
|  |  | synaptic vesicle exocytosis |
|  |  | endomembrane system organization |
|  |  | regulation of endocytosis |
|  |  | regulation of programmed cell death |
|  |  | regulation of actin cytoskeleton organization |
|  |  | postsynaptic specialization organization |
|  |  | microtubule-based process |
|  |  | positive regulation of nervous system development |
|  |  | positive regulation of locomotion |
|  |  | inner mitochondrial membrane organization |
|  |  | regulation of actin filament organization |
|  |  | regulated exocytosis |
|  |  | negative regulation of signaling |
|  |  | synaptic vesicle recycling |
|  |  | regulation of synapse organization |
|  |  | vesicle organization |
|  |  | vesicle-mediated transport to the plasma membrane |
|  |  | cellular component maintenance |
|  |  | mitochondrial transport |
|  |  | neurotransmitter transport |
|  |  | regulation of actin filament polymerization |
|  |  | regulation of neurotransmitter levels |
|  |  | small GTPase mediated signal transduction |
|  |  | developmental growth involved in morphogenesis |
|  |  | regulation of protein polymerization |
|  |  | regulation of cell junction assembly |
|  |  | postsynaptic endocytosis |
|  |  | mitochondrial respiratory chain complex I assembly |
|  |  | regulation of dendrite development |
|  |  | regulation of actin filament-based process |
|  |  | establishment of organelle localization |
|  |  | protein targeting |
|  |  | transport along microtubule |
|  |  | vesicle budding from membrane |
|  |  | positive regulation of GTPase activity |
|  |  | positive regulation of cell migration |
|  |  | response to insulin |
|  |  | signal release from synapse |
|  |  | microtubule-based transport |
|  |  | cellular response to organonitrogen compound |
|  |  | post-Golgi vesicle-mediated transport |
|  |  | negative regulation of cell communication |
|  |  | regulation of apoptotic process |
|  |  | negative regulation of supramolecular fiber organization |
| Acute F Protract F | 25 | regulation of translation |
|  |  | cell cycle |
|  |  | cell cycle process |
|  |  | amide biosynthetic process |
|  |  | positive regulation of protein secretion |
|  |  | mitotic cell cycle |
|  |  | aerobic electron transport chain |
|  |  | postsynaptic cytoskeleton organization |
|  |  | response to acetylcholine |
|  |  | postsynaptic actin cytoskeleton organization |
|  |  | mitotic cell cycle process |
|  |  | ATP biosynthetic process |
|  |  | acetylcholine receptor signaling pathway |
|  |  | response to salt |
|  |  | cellular response to salt |
|  |  | positive regulation of developmental growth |
|  |  | hindbrain development |
|  |  | G protein-coupled acetylcholine receptor signaling pathway |
|  |  | carboxylic acid catabolic process |
|  |  | cell cycle phase transition |
|  |  | organic acid catabolic process |
|  |  | negative regulation of cell migration |
|  |  | response to metal ion |
|  |  | cellular response to acetylcholine |
|  |  | small molecule catabolic process |
|  |  |  |
| **DMS** | | |
| 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 |
|  |  |  |
|  |  |  |
| **NAc** | | |
| Names | total | elements |
| Acute F Acute M Protract F Protract M | 51 | regulation of locomotion |
|  |  | ribonucleoside triphosphate metabolic process |
|  |  | regulation of synapse structure or activity |
|  |  | negative regulation of cellular component organization |
|  |  | cell junction organization |
|  |  | neuron projection organization |
|  |  | regulation of transport |
|  |  | vesicle-mediated transport in synapse |
|  |  | cytoskeleton organization |
|  |  | small molecule metabolic process |
|  |  | organophosphate metabolic process |
|  |  | positive regulation of protein metabolic process |
|  |  | macromolecule catabolic process |
|  |  | plasma membrane bounded cell projection organization |
|  |  | locomotion |
|  |  | import into cell |
|  |  | anterograde trans-synaptic signaling |
|  |  | cell projection organization |
|  |  | postsynapse organization |
|  |  | cytoplasmic translation |
|  |  | regulation of postsynapse organization |
|  |  | regulation of anatomical structure morphogenesis |
|  |  | organonitrogen compound biosynthetic process |
|  |  | synaptic signaling |
|  |  | receptor internalization |
|  |  | nucleotide metabolic process |
|  |  | cell motility |
|  |  | vesicle-mediated transport |
|  |  | peptide metabolic process |
|  |  | purine-containing compound metabolic process |
|  |  | purine ribonucleoside triphosphate metabolic process |
|  |  | regulation of cellular component size |
|  |  | chemical synaptic transmission |
|  |  | regulation of cell migration |
|  |  | regulation of protein localization |
|  |  | regulation of cellular localization |
|  |  | positive regulation of molecular function |
|  |  | intracellular transport |
|  |  | negative regulation of organelle organization |
|  |  | cell migration |
|  |  | regulation of organelle organization |
|  |  | microtubule-based process |
|  |  | regulation of synapse organization |
|  |  | purine nucleoside triphosphate metabolic process |
|  |  | cellular component disassembly |
|  |  | microtubule cytoskeleton organization |
|  |  | synapse organization |
|  |  | synaptic vesicle cycle |
|  |  | purine nucleotide metabolic process |
|  |  | oxidative phosphorylation |
|  |  | trans-synaptic signaling |
| Acute M Protract F Protract M | 25 | actin filament polymerization |
|  |  | cytosolic transport |
|  |  | supramolecular fiber organization |
|  |  | actin filament organization |
|  |  | regulation of supramolecular fiber organization |
|  |  | regulation of cytoskeleton organization |
|  |  | regulation of cellular component biogenesis |
|  |  | regulation of protein-containing complex assembly |
|  |  | actin filament bundle organization |
|  |  | positive regulation of protein modification process |
|  |  | regulation of actin filament length |
|  |  | actin polymerization or depolymerization |
|  |  | regulation of intracellular transport |
|  |  | exocytic process |
|  |  | protein polymerization |
|  |  | regulation of actin polymerization or depolymerization |
|  |  | negative regulation of cytoskeleton organization |
|  |  | dendritic spine organization |
|  |  | regulation of protein polymerization |
|  |  | positive regulation of developmental process |
|  |  | regulation of protein modification process |
|  |  | protein-containing complex disassembly |
|  |  | protein depolymerization |
|  |  | actin filament bundle assembly |
|  |  | negative regulation of supramolecular fiber organization |
| Acute F Protract F Protract M | 15 | actin filament-based process |
|  |  | proton motive force-driven mitochondrial ATP synthesis |
|  |  | neurotransmitter secretion |
|  |  | synaptic vesicle priming |
|  |  | nucleoside triphosphate biosynthetic process |
|  |  | purine nucleoside triphosphate biosynthetic process |
|  |  | ATP metabolic process |
|  |  | ATP biosynthetic process |
|  |  | organonitrogen compound catabolic process |
|  |  | synaptic vesicle exocytosis |
|  |  | neurotransmitter transport |
|  |  | ribonucleoside triphosphate biosynthetic process |
|  |  | purine ribonucleoside triphosphate biosynthetic process |
|  |  | signal release from synapse |
|  |  | protein catabolic process |
| Acute F Acute M Protract F | 160 | regulation of biological quality |
|  |  | energy derivation by oxidation of organic compounds |
|  |  | peptide biosynthetic process |
|  |  | presynapse organization |
|  |  | positive regulation of secretion by cell |
|  |  | amino acid metabolic process |
|  |  | positive regulation of metabolic process |
|  |  | cell morphogenesis |
|  |  | dendrite development |
|  |  | maintenance of postsynaptic specialization structure |
|  |  | establishment of localization in cell |
|  |  | dendritic spine development |
|  |  | synaptic vesicle recycling via endosome |
|  |  | regulation of cell motility |
|  |  | receptor-mediated endocytosis |
|  |  | membrane organization |
|  |  | neuron differentiation |
|  |  | regulation of biological process |
|  |  | protein localization to membrane |
|  |  | establishment of vesicle localization |
|  |  | amide biosynthetic process |
|  |  | neuron development |
|  |  | cellular component organization or biogenesis |
|  |  | nucleoside phosphate metabolic process |
|  |  | regulation of protein metabolic process |
|  |  | developmental process |
|  |  | positive regulation of macromolecule metabolic process |
|  |  | cell population proliferation |
|  |  | system development |
|  |  | macromolecule localization |
|  |  | establishment of protein localization |
|  |  | negative regulation of protein metabolic process |
|  |  | localization |
|  |  | multicellular organism development |
|  |  | organelle localization |
|  |  | regulation of transmembrane transport |
|  |  | positive regulation of transport |
|  |  | cellular macromolecule localization |
|  |  | synaptic vesicle localization |
|  |  | organelle organization |
|  |  | negative regulation of cellular process |
|  |  | cell junction assembly |
|  |  | regulation of protein transport |
|  |  | tRNA aminoacylation |
|  |  | endosomal transport |
|  |  | nervous system development |
|  |  | cell part morphogenesis |
|  |  | maintenance of synapse structure |
|  |  | generation of precursor metabolites and energy |
|  |  | cell development |
|  |  | cellular component biogenesis |
|  |  | regulation of vesicle-mediated transport |
|  |  | cellular metabolic process |
|  |  | establishment of localization |
|  |  | ribonucleotide metabolic process |
|  |  | regulation of localization |
|  |  | tRNA aminoacylation for protein translation |
|  |  | cellular process |
|  |  | postsynaptic density organization |
|  |  | regulation of establishment of protein localization |
|  |  | plasma membrane bounded cell projection morphogenesis |
|  |  | transport |
|  |  | presynaptic endocytosis |
|  |  | generation of neurons |
|  |  | organonitrogen compound metabolic process |
|  |  | regulation of response to stimulus |
|  |  | cellular catabolic process |
|  |  | regulation of plasma membrane bounded cell projection organization |
|  |  | phosphate-containing compound metabolic process |
|  |  | protein localization to cell junction |
|  |  | organic substance transport |
|  |  | cellular nitrogen compound biosynthetic process |
|  |  | secretion |
|  |  | primary metabolic process |
|  |  | modulation of chemical synaptic transmission |
|  |  | regulation of trans-synaptic signaling |
|  |  | purine ribonucleotide metabolic process |
|  |  | neuron projection development |
|  |  | Ras protein signal transduction |
|  |  | regulation of mitochondrion organization |
|  |  | negative regulation of catabolic process |
|  |  | regulation of cell communication |
|  |  | vesicle localization |
|  |  | positive regulation of cellular process |
|  |  | synaptic vesicle endocytosis |
|  |  | positive regulation of cellular component organization |
|  |  | cell-cell signaling |
|  |  | nucleobase-containing small molecule metabolic process |
|  |  | regulation of molecular function |
|  |  | protein transport |
|  |  | translation |
|  |  | mitochondrion organization |
|  |  | catabolic process |
|  |  | synaptic vesicle transport |
|  |  | protein localization to synapse |
|  |  | negative regulation of biological process |
|  |  | cell projection morphogenesis |
|  |  | regulation of cell morphogenesis |
|  |  | synapse assembly |
|  |  | protein localization |
|  |  | regulation of cell projection organization |
|  |  | cellular response to oxygen levels |
|  |  | carbohydrate catabolic process |
|  |  | regulation of protein-containing complex disassembly |
|  |  | protein metabolic process |
|  |  | secretion by cell |
|  |  | exocytosis |
|  |  | endocytosis |
|  |  | dendrite morphogenesis |
|  |  | regulation of cellular component organization |
|  |  | nitrogen compound transport |
|  |  | regulation of signaling |
|  |  | endomembrane system organization |
|  |  | regulation of endocytosis |
|  |  | metabolic process |
|  |  | intracellular protein transport |
|  |  | programmed cell death |
|  |  | protein localization to organelle |
|  |  | postsynaptic specialization organization |
|  |  | organic substance catabolic process |
|  |  | neuron projection morphogenesis |
|  |  | synaptic vesicle recycling |
|  |  | vesicle organization |
|  |  | regulation of neuron projection development |
|  |  | cellular component maintenance |
|  |  | regulation of cell population proliferation |
|  |  | mitochondrial transport |
|  |  | positive regulation of cellular metabolic process |
|  |  | cell junction maintenance |
|  |  | positive regulation of biological process |
|  |  | phosphorus metabolic process |
|  |  | cellular component organization |
|  |  | small GTPase mediated signal transduction |
|  |  | carbohydrate metabolic process |
|  |  | translation at postsynapse |
|  |  | aerobic respiration |
|  |  | positive regulation of endocytosis |
|  |  | cell morphogenesis involved in neuron differentiation |
|  |  | cellular response to stress |
|  |  | carbohydrate derivative metabolic process |
|  |  | establishment of organelle localization |
|  |  | translation at presynapse |
|  |  | amide metabolic process |
|  |  | biological regulation |
|  |  | vesicle budding from membrane |
|  |  | cellular component assembly |
|  |  | neurogenesis |
|  |  | regulation of cellular process |
|  |  | regulation of catabolic process |
|  |  | ribose phosphate metabolic process |
|  |  | amino acid activation |
|  |  | organic substance metabolic process |
|  |  | export from cell |
|  |  | positive regulation of nitrogen compound metabolic process |
|  |  | translation at synapse |
|  |  | cellular component morphogenesis |
|  |  | positive regulation of protein localization |
|  |  | cellular localization |
|  |  | localization within membrane |
|  |  | cellular respiration |
| Protract F Protract M | 30 | positive regulation of transferase activity |
|  |  | filopodium assembly |
|  |  | endothelium development |
|  |  | cell adhesion |
|  |  | positive regulation of protein localization to membrane |
|  |  | cellular response to endogenous stimulus |
|  |  | regulation of kinase activity |
|  |  | proton motive force-driven ATP synthesis |
|  |  | actin cytoskeleton organization |
|  |  | regulation of protein tyrosine kinase activity |
|  |  | regulation of catalytic activity |
|  |  | regulation of intracellular signal transduction |
|  |  | cellular response to nitrogen compound |
|  |  | regulation of protein localization to membrane |
|  |  | response to endogenous stimulus |
|  |  | response to organonitrogen compound |
|  |  | regulation of transferase activity |
|  |  | regulation of actin cytoskeleton organization |
|  |  | regulation of actin filament organization |
|  |  | vesicle-mediated transport between endosomal compartments |
|  |  | regulation of actin filament polymerization |
|  |  | positive regulation of neuron apoptotic process |
|  |  | developmental growth involved in morphogenesis |
|  |  | regulation of protein localization to cell periphery |
|  |  | regulation of actin filament-based process |
|  |  | growth |
|  |  | response to nitrogen compound |
|  |  | cellular response to organonitrogen compound |
|  |  | regulation of anatomical structure size |
|  |  | developmental growth |
| Acute M Protract M | 5 | negative regulation of actin filament polymerization |
|  |  | negative regulation of protein polymerization |
|  |  | viral translational termination-reinitiation |
|  |  | negative regulation of protein-containing complex assembly |
|  |  | negative regulation of dendritic spine maintenance |
| Acute F Protract M | 3 | regulation of synaptic vesicle priming |
|  |  | negative regulation of response to stimulus |
|  |  | alcohol metabolic process |
| Acute M Protract F | 93 | glucan metabolic process |
|  |  | response to oxidative stress |
|  |  | regulation of postsynaptic membrane neurotransmitter receptor levels |
|  |  | regulation of system process |
|  |  | rRNA processing |
|  |  | positive regulation of protein transport |
|  |  | positive regulation of phosphate metabolic process |
|  |  | cell differentiation |
|  |  | NADH dehydrogenase complex assembly |
|  |  | ribosome biogenesis |
|  |  | regulation of synaptic plasticity |
|  |  | negative regulation of transmembrane transport |
|  |  | modulation of excitatory postsynaptic potential |
|  |  | regulation of potassium ion transmembrane transport |
|  |  | Golgi organization |
|  |  | glycogen metabolic process |
|  |  | regulation of microtubule cytoskeleton organization |
|  |  | negative regulation of protein-containing complex disassembly |
|  |  | positive regulation of cell population proliferation |
|  |  | polysaccharide metabolic process |
|  |  | glycogen catabolic process |
|  |  | regulation of neuron apoptotic process |
|  |  | regulation of developmental process |
|  |  | negative regulation of protein depolymerization |
|  |  | negative regulation of monoatomic ion transmembrane transport |
|  |  | organelle assembly |
|  |  | regulation of cell shape |
|  |  | regulation of intracellular protein transport |
|  |  | cellular developmental process |
|  |  | negative regulation of cell projection organization |
|  |  | regulation of neurotransmitter receptor activity |
|  |  | vacuole organization |
|  |  | axo-dendritic transport |
|  |  | glucan catabolic process |
|  |  | energy reserve metabolic process |
|  |  | polysaccharide catabolic process |
|  |  | regulation of phosphorylation |
|  |  | establishment of protein localization to mitochondrion |
|  |  | cellular nitrogen compound catabolic process |
|  |  | protein targeting to mitochondrion |
|  |  | positive regulation of cellular component biogenesis |
|  |  | positive regulation of cell projection organization |
|  |  | heterocycle catabolic process |
|  |  | regulation of microtubule-based process |
|  |  | positive regulation of phosphorylation |
|  |  | negative regulation of potassium ion transmembrane transporter activity |
|  |  | mitochondrial membrane organization |
|  |  | regulation of phosphate metabolic process |
|  |  | anterograde axonal transport |
|  |  | actin filament depolymerization |
|  |  | ribosomal large subunit biogenesis |
|  |  | regulation of postsynaptic neurotransmitter receptor activity |
|  |  | regulation of signaling receptor activity |
|  |  | regulation of protein modification by small protein conjugation or removal |
|  |  | Golgi vesicle transport |
|  |  | protein localization to mitochondrion |
|  |  | phosphorylation |
|  |  | regulation of synapse assembly |
|  |  | negative regulation of potassium ion transport |
|  |  | neuron apoptotic process |
|  |  | organelle disassembly |
|  |  | negative regulation of cation transmembrane transport |
|  |  | organic cyclic compound catabolic process |
|  |  | axonal transport |
|  |  | mitochondrial respiratory chain complex assembly |
|  |  | protein-containing complex organization |
|  |  | positive regulation of phosphorus metabolic process |
|  |  | positive regulation of nervous system development |
|  |  | protein-containing complex assembly |
|  |  | inner mitochondrial membrane organization |
|  |  | negative regulation of potassium ion transmembrane transport |
|  |  | positive regulation of organelle organization |
|  |  | positive regulation of intracellular transport |
|  |  | negative regulation of actin filament depolymerization |
|  |  | regulation of protein depolymerization |
|  |  | regulation of cell junction assembly |
|  |  | mitochondrial respiratory chain complex I assembly |
|  |  | presynapse assembly |
|  |  | regulation of binding |
|  |  | endoplasmic reticulum to Golgi vesicle-mediated transport |
|  |  | protein targeting |
|  |  | regulation of actin filament depolymerization |
|  |  | regulation of phosphorus metabolic process |
|  |  | nucleobase-containing compound catabolic process |
|  |  | regulation of small molecule metabolic process |
|  |  | positive regulation of establishment of protein localization |
|  |  | aromatic compound catabolic process |
|  |  | regulation of potassium ion transport |
|  |  | positive regulation of intracellular protein transport |
|  |  | neurotransmitter receptor internalization |
|  |  | circulatory system process |
|  |  | protein-containing complex localization |
|  |  | regulation of nervous system process |
| Acute F Protract F | 133 | regulation of metal ion transport |
|  |  | regulation of proteolysis involved in protein catabolic process |
|  |  | regulation of neuronal synaptic plasticity |
|  |  | regulation of transporter activity |
|  |  | alpha-amino acid metabolic process |
|  |  | peptide secretion |
|  |  | establishment of protein localization to extracellular region |
|  |  | purine ribonucleotide biosynthetic process |
|  |  | presynaptic dense core vesicle exocytosis |
|  |  | protein localization to cell periphery |
|  |  | positive regulation of insulin secretion |
|  |  | behavior |
|  |  | response to stimulus |
|  |  | protein localization to extracellular region |
|  |  | regulation of signal transduction |
|  |  | protein secretion |
|  |  | negative regulation of molecular function |
|  |  | regulation of secretion |
|  |  | inorganic cation transmembrane transport |
|  |  | regulation of ubiquitin-dependent protein catabolic process |
|  |  | nucleoside monophosphate metabolic process |
|  |  | regulation of peptide hormone secretion |
|  |  | proteolysis involved in protein catabolic process |
|  |  | monosaccharide catabolic process |
|  |  | regulation of amyloid precursor protein catabolic process |
|  |  | amide transport |
|  |  | locomotory behavior |
|  |  | negative regulation of proteolysis involved in protein catabolic process |
|  |  | regulation of monoatomic ion transmembrane transporter activity |
|  |  | regulation of regulated secretory pathway |
|  |  | response to endoplasmic reticulum stress |
|  |  | nucleoside phosphate biosynthetic process |
|  |  | receptor localization to synapse |
|  |  | positive regulation of peptide secretion |
|  |  | modification-dependent protein catabolic process |
|  |  | epithelial cell development |
|  |  | regulation of proteasomal ubiquitin-dependent protein catabolic process |
|  |  | positive regulation of protein secretion |
|  |  | positive regulation of programmed cell death |
|  |  | insulin secretion |
|  |  | negative regulation of proteasomal protein catabolic process |
|  |  | ATP synthesis coupled electron transport |
|  |  | axon development |
|  |  | hormone secretion |
|  |  | neuron cellular homeostasis |
|  |  | amino acid transport |
|  |  | cell death |
|  |  | regulation of peptide transport |
|  |  | ribonucleotide biosynthetic process |
|  |  | proteasome-mediated ubiquitin-dependent protein catabolic process |
|  |  | cellular homeostasis |
|  |  | aerobic electron transport chain |
|  |  | regulation of neurotransmitter secretion |
|  |  | positive regulation of apoptotic process |
|  |  | organic acid metabolic process |
|  |  | ubiquitin-dependent protein catabolic process |
|  |  | regulation of hormone secretion |
|  |  | cellular response to hypoxia |
|  |  | positive regulation of peptide hormone secretion |
|  |  | regulation of transmembrane transporter activity |
|  |  | nucleotide biosynthetic process |
|  |  | positive regulation of hormone secretion |
|  |  | ribose phosphate biosynthetic process |
|  |  | brain development |
|  |  | signal release |
|  |  | anterograde axonal protein transport |
|  |  | monoatomic cation transmembrane transport |
|  |  | respiratory electron transport chain |
|  |  | protein localization to presynapse |
|  |  | cytoskeleton-dependent intracellular transport |
|  |  | regulation of secretion by cell |
|  |  | regulation of synaptic vesicle exocytosis |
|  |  | monoatomic ion transport |
|  |  | regulation of protein secretion |
|  |  | positive regulation of secretion |
|  |  | positive regulation of aspartic-type endopeptidase activity involved in amyloid precursor protein catabolic process |
|  |  | nucleoside triphosphate metabolic process |
|  |  | intrinsic apoptotic signaling pathway |
|  |  | regulation of proteolysis |
|  |  | process utilizing autophagic mechanism |
|  |  | hormone transport |
|  |  | protein localization to plasma membrane |
|  |  | purine nucleotide biosynthetic process |
|  |  | intracellular signal transduction |
|  |  | regulation of peptide secretion |
|  |  | endothelial cell development |
|  |  | carboxylic acid catabolic process |
|  |  | apoptotic process |
|  |  | monoatomic cation transport |
|  |  | purine nucleoside monophosphate metabolic process |
|  |  | positive regulation of aspartic-type peptidase activity |
|  |  | anatomical structure development |
|  |  | regulation of programmed cell death |
|  |  | negative regulation of protein localization |
|  |  | autophagy |
|  |  | monoatomic ion transmembrane transport |
|  |  | organic acid catabolic process |
|  |  | regulated exocytosis |
|  |  | mitochondrial electron transport, NADH to ubiquinone |
|  |  | peptide hormone secretion |
|  |  | regulation of monoatomic ion transport |
|  |  | peptide transport |
|  |  | regulation of protein catabolic process |
|  |  | oxoacid metabolic process |
|  |  | negative regulation of ubiquitin-dependent protein catabolic process |
|  |  | regulation of neurotransmitter levels |
|  |  | pallium development |
|  |  | signaling |
|  |  | purine-containing compound biosynthetic process |
|  |  | inorganic ion transmembrane transport |
|  |  | regulation of insulin secretion |
|  |  | cellular response to decreased oxygen levels |
|  |  | proteasomal protein catabolic process |
|  |  | regulation of neurotransmitter transport |
|  |  | regulation of monoatomic ion transmembrane transport |
|  |  | mitochondrial ATP synthesis coupled electron transport |
|  |  | transport along microtubule |
|  |  | establishment of endothelial barrier |
|  |  | carboxylic acid metabolic process |
|  |  | cell communication |
|  |  | axonogenesis |
|  |  | organophosphate biosynthetic process |
|  |  | small molecule biosynthetic process |
|  |  | regulation of proteasomal protein catabolic process |
|  |  | apoptotic signaling pathway |
|  |  | modification-dependent macromolecule catabolic process |
|  |  | microtubule-based transport |
|  |  | proteolysis |
|  |  | electron transport chain |
|  |  | regulation of membrane potential |
|  |  | regulation of apoptotic process |
|  |  | small molecule catabolic process |
|  |  | regulation of monoatomic cation transmembrane transport |
| Acute F Acute M | 27 | synaptic vesicle budding from presynaptic endocytic zone membrane |
|  |  | regulation of synaptic vesicle recycling |
|  |  | synaptic vesicle clustering |
|  |  | citrate metabolic process |
|  |  | viral translation |
|  |  | protein folding |
|  |  | response to abiotic stimulus |
|  |  | regulation of dendritic spine morphogenesis |
|  |  | release of cytochrome c from mitochondria |
|  |  | positive regulation of amide metabolic process |
|  |  | positive regulation of synaptic vesicle clustering |
|  |  | positive regulation of neuron projection development |
|  |  | protein modification process |
|  |  | positive regulation of synaptic vesicle recycling |
|  |  | regulation of amide metabolic process |
|  |  | apoptotic mitochondrial changes |
|  |  | nitrogen compound metabolic process |
|  |  | macromolecule modification |
|  |  | peptidyl-amino acid modification |
|  |  | regulation of synaptic vesicle endocytosis |
|  |  | dendritic spine morphogenesis |
|  |  | response to stress |
|  |  | regulation of dendrite development |
|  |  | regulation of dendritic spine development |
|  |  | positive regulation of dendritic spine development |
|  |  | mitochondrial electron transport, cytochrome c to oxygen |
|  |  | positive regulation of synaptic vesicle endocytosis |