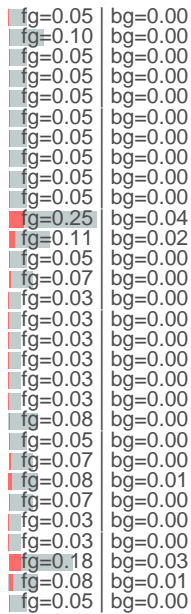
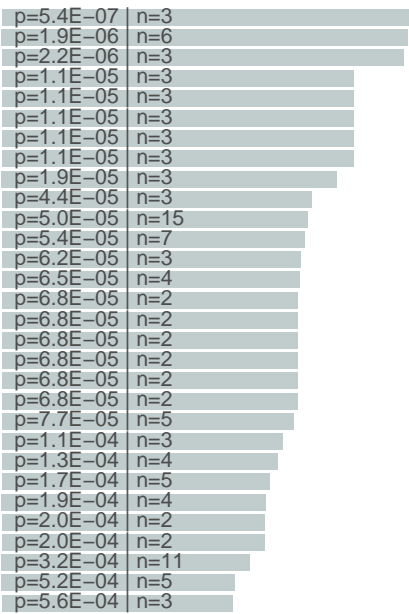


GO:BP
CniBilPla_gain

fraction genes in fg and expected value

inhibitory G protein–coupled receptor ph...	GO:0002030
calcium–dependent activation of synapti...	GO:0099502
activation of meiosis involved in egg ac...	GO:0060466
regulation of calcium–dependent activati...	GO:0150037
spontaneous neurotransmitter secretion	GO:0061669
regulation of synaptic transmission, cho...	GO:0032222
positive regulation of synapse maturatio...	GO:0090129
positive regulation of phospholipase A2 ...	GO:0032430
regulation of grooming behavior	GO:2000821
regulation of presynaptic membrane poten...	GO:0099505
regulation of ion transmembrane transpor...	GO:0034765
G1/S transition of mitotic cell cycle	GO:0000082
positive regulation of dendritic spine m...	GO:0061003
regulation of neuron migration	GO:2001222
positive regulation of glutamate uptake ...	GO:0051951
fast, calcium ion–dependent exocytosis o...	GO:0098746
synchronous neurotransmitter secretion	GO:0071911
regulation of acetylcholine uptake	GO:0051631
positive regulation of calcium ion–depen...	GO:1903235
cellular response to norepinephrine stim...	GO:0071874
calcium ion–regulated exocytosis of neur...	GO:0048791
regulation of synaptic transmission, dop...	GO:0032225
neuromuscular process controlling balanc...	GO:0050885
regulation of protein localization to pl...	GO:1903076
response to amyloid–beta	GO:1904645
negative regulation of polyamine transme...	GO:1902268
positive regulation of dopamine secretio...	GO:0033603
calcium ion transport	GO:0006816
protein homooligomerization	GO:0051260
regulation of long–term neuronal synapti...	GO:0048169



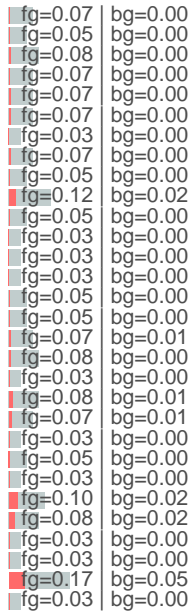
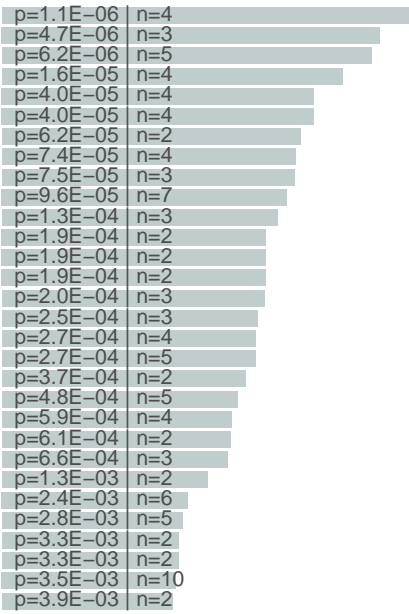
–log(p)
n=61/96 input genes with annotations

fraction

GO:MF
CniBilPla_gain

fraction genes in fg and expected value

high voltage–gated calcium channel activ...	GO:0008331
structural constituent of postsynaptic a...	GO:0098973
calcium–dependent phospholipid binding	GO:0005544
calmodulin–dependent protein kinase acti...	GO:0004683
delayed rectifier potassium channel acti...	GO:0005251
calcium–dependent protein serine/threoni...	GO:0009931
alpha–2B adrenergic receptor binding	GO:0031695
phosphatidylserine binding	GO:0001786
voltage–gated calcium channel activity i...	GO:0099626
calmodulin binding	GO:0005516
phospholipase binding	GO:0043274
ornithine decarboxylase inhibitor activi...	GO:0008073
syntaxin–3 binding	GO:0030348
calcium ion sensor activity	GO:0061891
potassium ion binding	GO:0030955
voltage–gated ion channel activity invol...	GO:0099508
clathrin binding	GO:0030276
syntaxin binding	GO:0019905
alpha–2C adrenergic receptor binding	GO:0031696
PDZ domain binding	GO:0030165
phosphatidylinositol–4,5–bisphosphate bi...	GO:0005546
alpha–2A adrenergic receptor binding	GO:0031694
G–protein beta/gamma–subunit complex bin...	GO:0031683
sodium:phosphate symporter activity	GO:0005436
protein heterodimerization activity	GO:0046982
protein C–terminus binding	GO:0008022
neurotransmitter transmembrane transport...	GO:0005326
L–glutamate transmembrane transporter ac...	GO:0005313
calcium ion binding	GO:0005509
low–density lipoprotein particle recepto...	GO:0050750



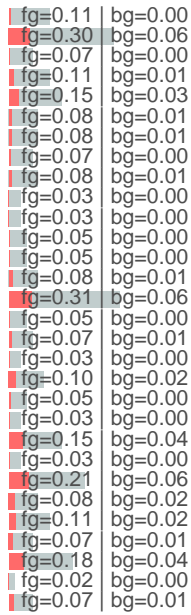
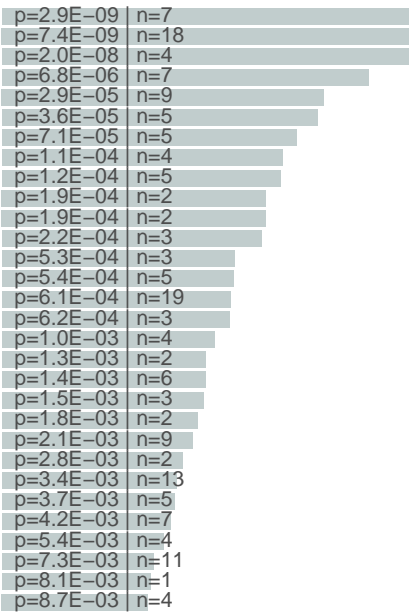
–log(p)
n=59/96 input genes with annotations

fraction

GO:CC
CniBilPla_gain

fraction genes in fg and expected value

voltage–gated calcium channel complex	GO:0005891
glutamatergic synapse	GO:0098978
calcium– and calmodulin–dependent protei...	GO:0005954
synaptic vesicle membrane	GO:0030672
presynaptic membrane	GO:0042734
sarcoplasmic reticulum	GO:0016529
dendritic shaft	GO:0043198
dense core granule	GO:0031045
voltage–gated potassium channel complex	GO:0008076
pericellular basket	GO:1990030
glial limiting end–foot	GO:0097451
spindle midzone	GO:0051233
axon initial segment	GO:0043194
perikaryon	GO:0043204
dendrite	GO:0030425
apical dendrite	GO:0097440
excitatory synapse	GO:0060076
basal dendrite	GO:0097441
dendritic spine	GO:0043197
heterotrimeric G–protein complex	GO:0005834
clathrin–sculpted glutamate transport ve...	GO:0060203
asymmetric synapse	GO:0032279
presynaptic cytosol	GO:0099523
neuronal cell body	GO:0043025
axon terminus	GO:0043679
neuron projection terminus	GO:0044306
GABA–ergic synapse	GO:0098982
neuron to neuron synapse	GO:0098984
glutamatergic postsynaptic density	GO:0099573
presynaptic active zone	GO:0048786



–log(p)
n=61/96 input genes with annotations

fraction