No infant cluster_2 Cellular Compartment

glutamatergic synapse
neuron to neuron synapse
asymmetric synapse
postsynaptic density
postsynaptic specialization
synaptic membrane
synaptic vesicle
exocytic vesicle
synaptic vesicle membrane
exocytic vesicle membrane
transport vesicle
distal axon
site of polarized growth
growth cone
dendritic spine
neuron spine
cell leading edge
cell cortex
transport vesicle membrane
presynaptic membrane

0.00
0.02
0.04
GeneRatio

p.adjust
2e−13
4e−13
6e−13

No infant cluster_2 Molecular Function

actin binding
actin filament binding
phospholipid binding
cadherin binding
transmembrane transporter binding
calmodulin binding
syntaxin−1 binding
GTPase regulator activity
nucleoside−triphosphatase regulator activity
ATPase−coupled ion transmembrane transporter activity
ATPase activity, coupled to transmembrane movement of ions, rotational mechanism
proton−transporting ATPase activity, rotational mechanism
syntaxin binding
tubulin binding
SNARE binding
GTPase activator activity
ATPase−coupled cation transmembrane transporter activity
pyrophosphatase activity
hydrolysis−driven proton transmembrane transporter activity
metal ion transmembrane transporter activity
guanyl−nucleotide exchange factor activity

0.00
0.01
0.02
0.03
0.04
0.05
GeneRatio

p.adjust
0.00005
0.00010
0.00015
0.00020

No infant cluster_2 Biological Process

modulation of chemical synaptic transmission
regulation of trans−synaptic signaling
axon development
synapse organization
axonogenesis
vesicle−mediated transport in synapse
synaptic vesicle cycle
regulation of neuron projection development
regulation of synaptic plasticity
synaptic vesicle exocytosis
exocytosis
neurotransmitter transport
neurotransmitter secretion
signal release from synapse
developmental growth involved in morphogenesis
regulated exocytosis
negative regulation of cell projection organization
developmental cell growth
regulation of cellular component size
negative regulation of neuron projection development

0.00
0.02
0.04
0.06
GeneRatio

p.adjust
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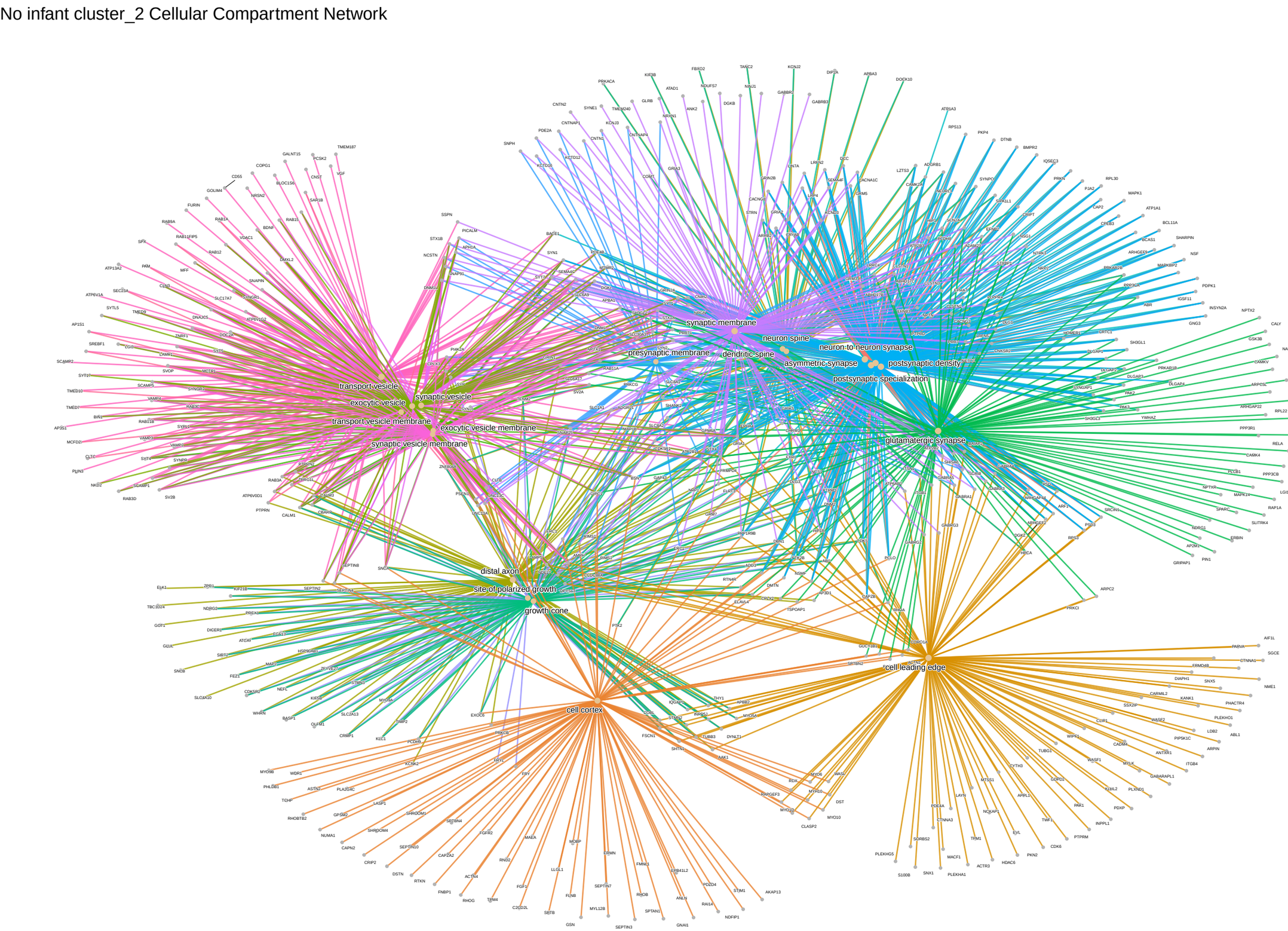
3.579999e−15
7.159999e−15
1.074000e−14
1.432000e−14

No infant cluster_2 Cellular Compartment Network



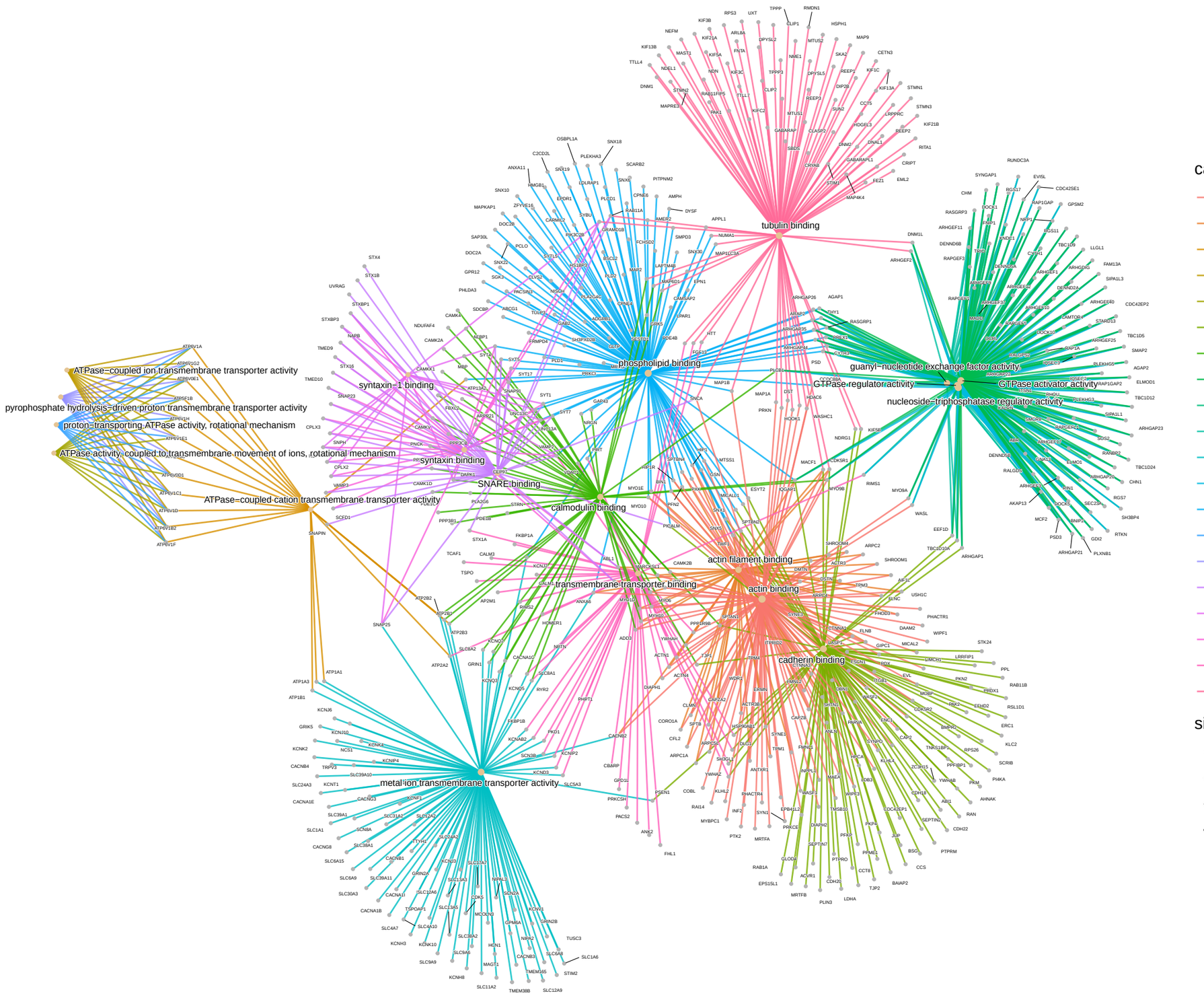
category

- asymmetric synapse
- cell cortex
- cell leading edge
- dendritic spine
- distal axon
- exocytic vesicle
- exocytic vesicle membrane
- glutamatergic synapse
- growth cone
- neuron spine
- neuron to neuron synapse
- postsynaptic density
- postsynaptic specialization
- presynaptic membrane
- site of polarized growth
- synaptic membrane
- synaptic vesicle
- synaptic vesicle membrane
- transport vesicle
- transport vesicle membrane

size

- 50
- 100

No infant cluster_2 Molecular Function Network



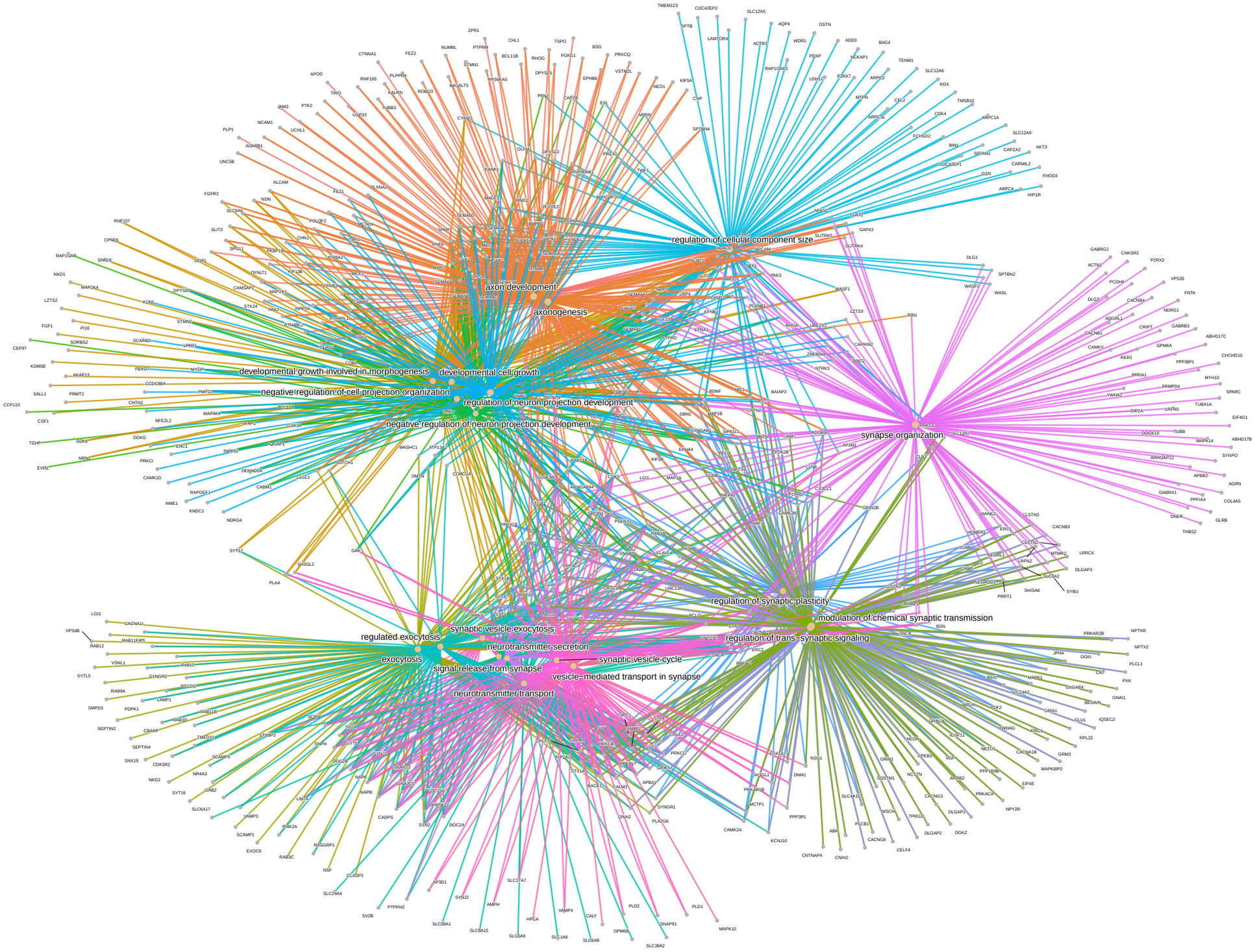
category

- actin binding
- actin filament binding
- ATPase−coupled cation transmembrane transporter activity
- ATPase−coupled ion transmembrane transporter activity
- ATPase activity, coupled to transmembrane movement of ions, rotational mechanism
- cadherin binding
- calmodulin binding
- GTPase activator activity
- GTPase regulator activity
- guanyl−nucleotide exchange factor activity
- metal ion transmembrane transporter activity
- nucleoside−triphosphatase regulator activity
- phospholipid binding
- proton−transporting ATPase activity, rotational mechanism
- pyrophosphate hydrolysis−driven proton transmembrane transporter activity
- SNARE binding
- syntaxin−1 binding
- syntaxin binding
- transmembrane transporter binding
- tubulin binding

size

- 30
- 60
- 90
- 120

No infant cluster_2 Biological Process Network



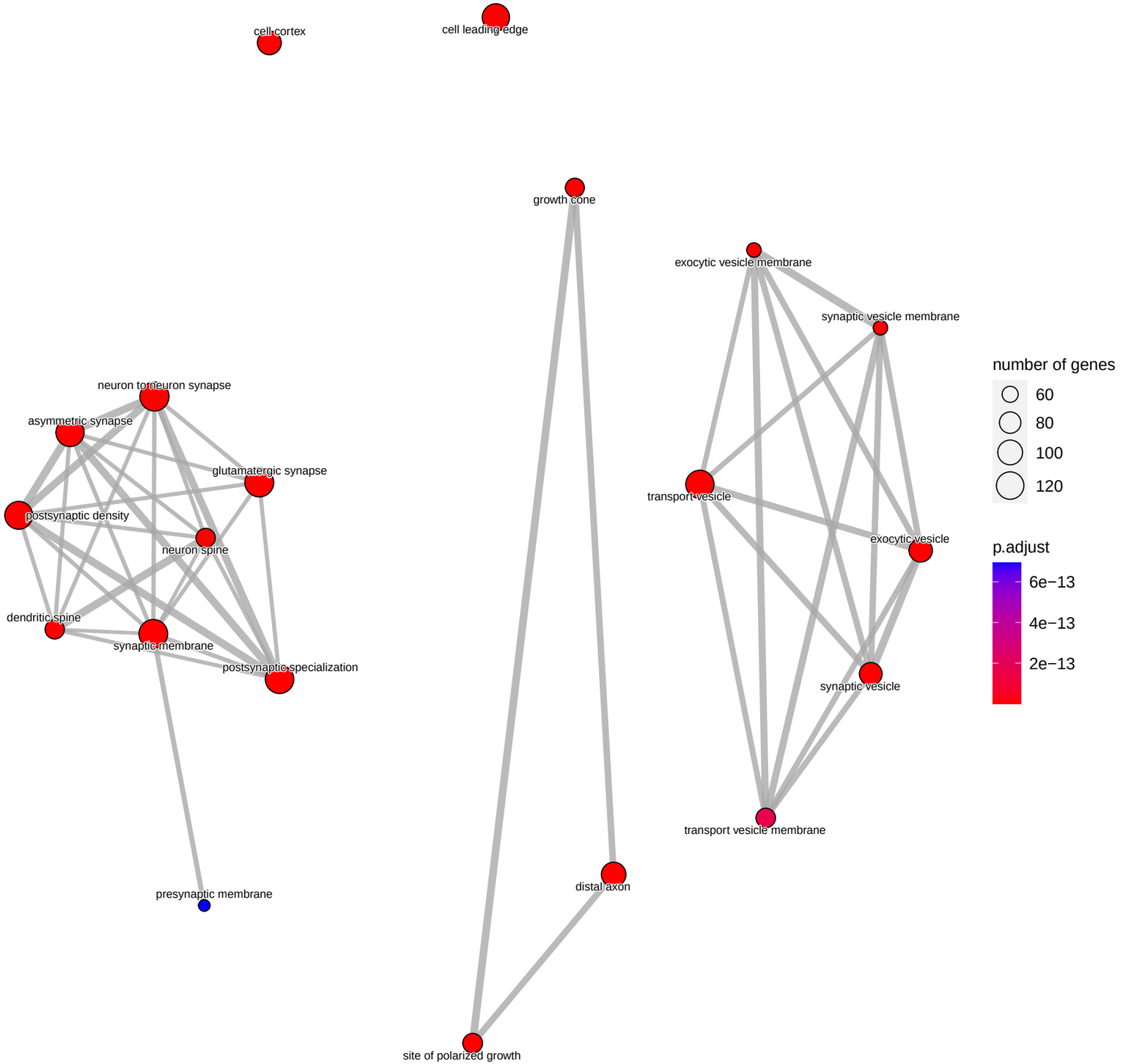
size

- 40
- 80
- 120
- 160

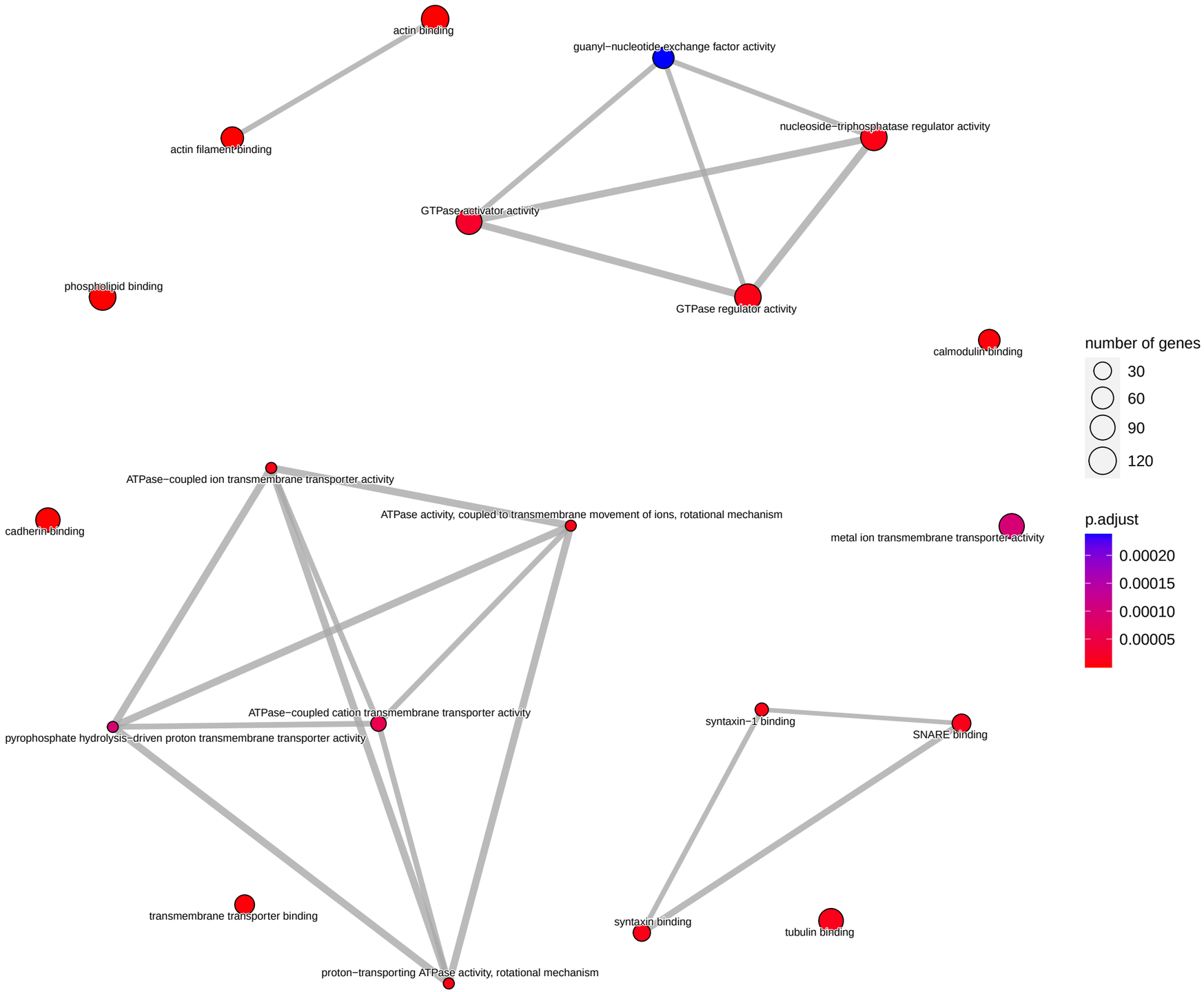
category

- axon development
- axonogenesis
- developmental cell growth
- developmental growth involved in morphogenesis
- exocytosis
- modulation of chemical synaptic transmission
- negative regulation of cell projection organization
- negative regulation of neuron projection development
- neurotransmitter secretion
- neurotransmitter transport
- regulated exocytosis
- regulation of cellular component size
- regulation of neuron projection development
- regulation of synaptic plasticity
- regulation of trans−synaptic signaling
- signal release from synapse
- synapse organization
- synaptic vesicle cycle
- synaptic vesicle exocytosis
- vesicle−mediated transport in synapse

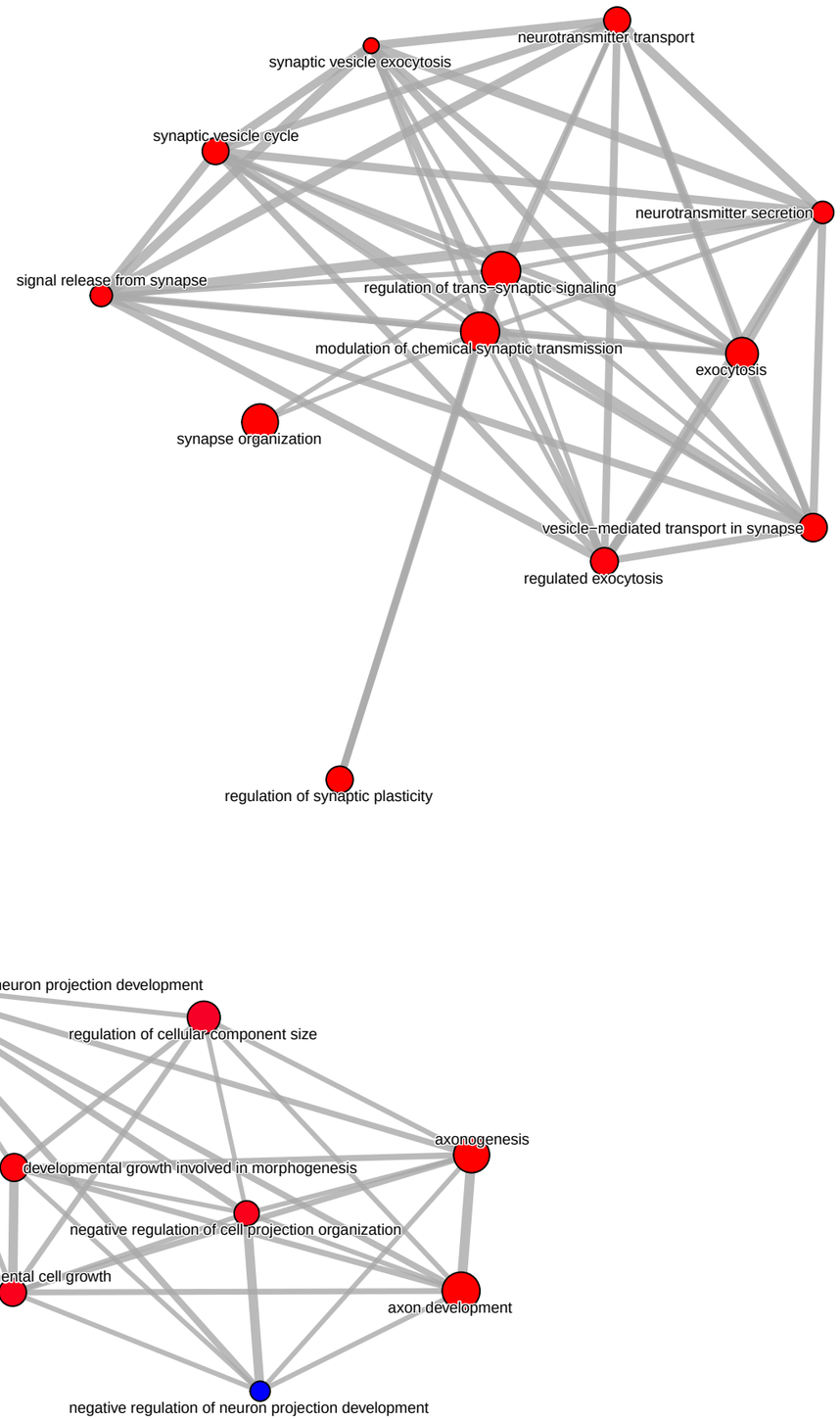
No infant cluster_2 Cellular Compartment Modules



No infant cluster_2 Molecular Function Modules



No infant cluster_2 Biological Process Modules



number of genes

60
80
100
120
140
160

p.adjust

1.432000e−14
1.074000e−14
7.159999e−15
3.579999e−15
2.312141e−35