Parent GO terms for Cellular Compartment for Age groups in Granular Cell Region

transcription regulator complex
spliceosomal complex
presynapse
transport vesicle
main axon
myelin sheath
synaptic membrane
microvillus
proteasome complex
endoplasmic reticulum lumen
secretory granule lumen
cytosolic region
acetylcholine−gated channel complex
MHC class II protein complex
lumenal side of membrane
trans−Golgi network membrane
ER to Golgi transport vesicle membrane
focal adhesion
preribosome, large subunit precursor

Infant_up.reg (419)
Infant_down.reg (249)
Teen_up.reg (638)
Adult_up.reg (8)
Elderly_up.reg (104)
Elderly_down.reg (62)

Cluster

GeneRatio
0.025
0.050
0.075
0.100
0.125

p.adjust
0.04
0.03
0.02
0.01

Parent GO terms for Molecular Function for Age groups in Granular Cell Region

protein folding chaperone
unfolded protein binding
RNA polymerase II−specific DNA−binding transcription factor binding
transcription corepressor activity
ATPase activator activity
chromatin DNA binding
carbohydrate kinase activity
sugar−phosphatase activity
GTPase activity
guanyl nucleotide binding
MHC class II protein complex binding
MHC class II receptor activity
peptide antigen binding

Infant_up.reg (407)
Infant_down.reg (240)
Teen_up.reg (621)
Elderly_up.reg (101)
Elderly_down.reg (60)

Cluster

GeneRatio
0.05
0.10

p.adjust
0.04
0.03
0.02
0.01

Parent GO terms for Biological Process for Age groups in Granular Cell Region

response to unfolded protein
chaperone−mediated protein folding
response to heat
cellular response to heat
RNA splicing
negative regulation of transcription from RNA polymerase II promoter in response to stress
rhythmic process
establishment of protein localization to organelle
retina development in camera−type eye
positive regulation of ossification
protein stabilization
regulation of intrinsic apoptotic signaling pathway
chaperone−mediated autophagy
neural nucleus development
glycolytic process
pyruvate metabolic process
substantia nigra development
glucose catabolic process
nucleotide phosphorylation
purine ribonucleoside diphosphate metabolic process
NADH regeneration
hexose metabolic process
alcohol biosynthetic process
actin filament organization
generation of precursor metabolites and energy
neurotransmitter transport
synaptic vesicle priming
movement in host environment
regulation of peptide secretion
positive regulation of secretion
modulation of chemical synaptic transmission
axonogenesis
regulation of endocytosis
cardiac muscle cell contraction
macrophage proliferation
sodium ion transmembrane transport
intracellular cholesterol transport
regulation of small molecule metabolic process
regulation of insulin secretion
regulation of circadian sleep/wake cycle, sleep
regulation of mRNA catabolic process
synapse organization
ribosome biogenesis
cellular response to transforming growth factor beta stimulus
regulation of TOR signaling
musculoskeletal movement
neuromuscular process
peptide antigen assembly with MHC class II protein complex
antigen processing and presentation of exogenous peptide antigen via MHC class II
immunoglobulin production involved in immunoglobulin−mediated immune response
adaptive immune response based on somatic recombination of immune receptors built from immunoglobulin superfamily domains
response to acid chemical
positive regulation of cell adhesion
immunoglobulin production
response to nutrient levels
cytoplasmic translation

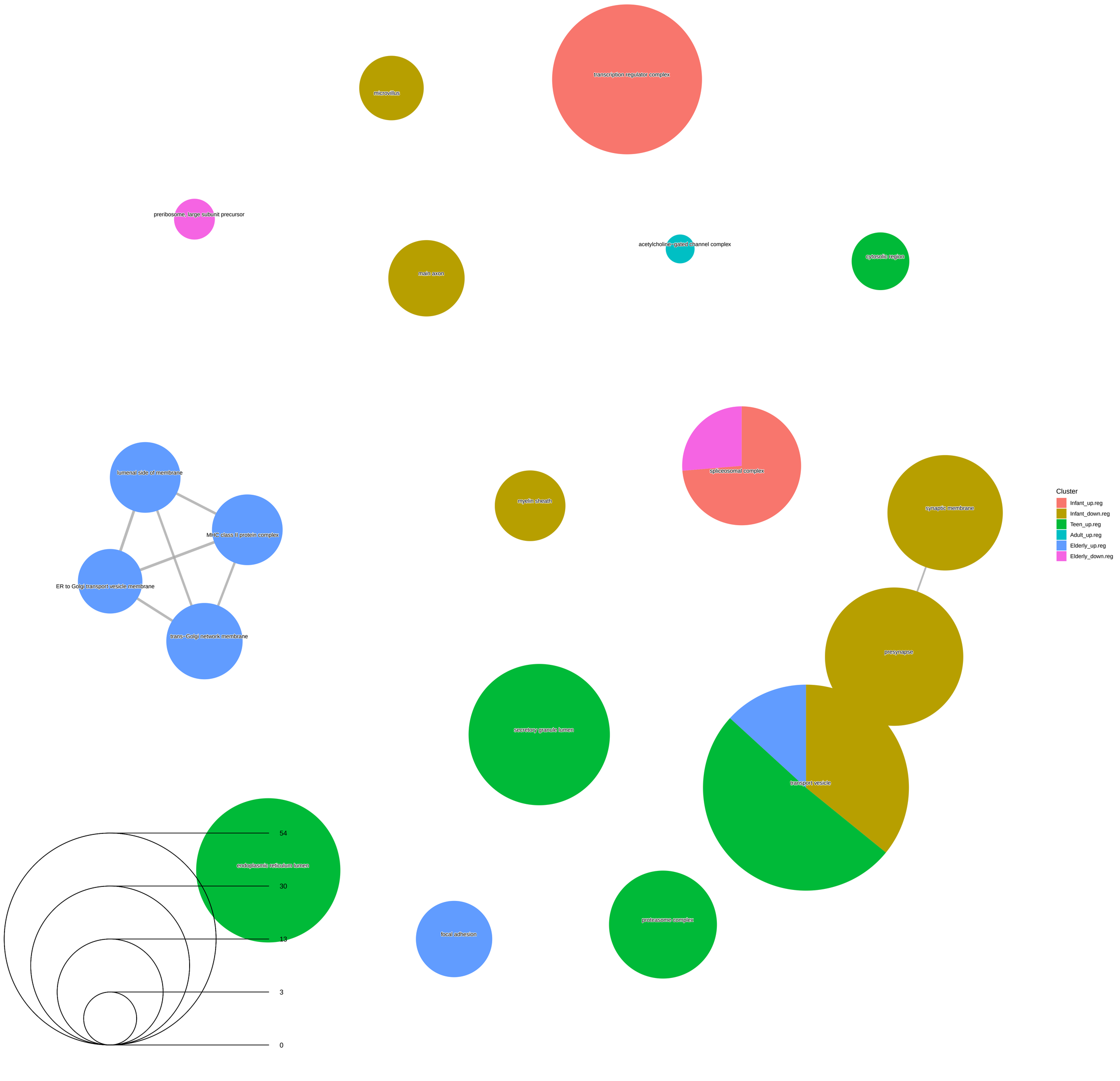
GeneRatio
0.1
0.2

p.adjust
0.04
0.03
0.02
0.01

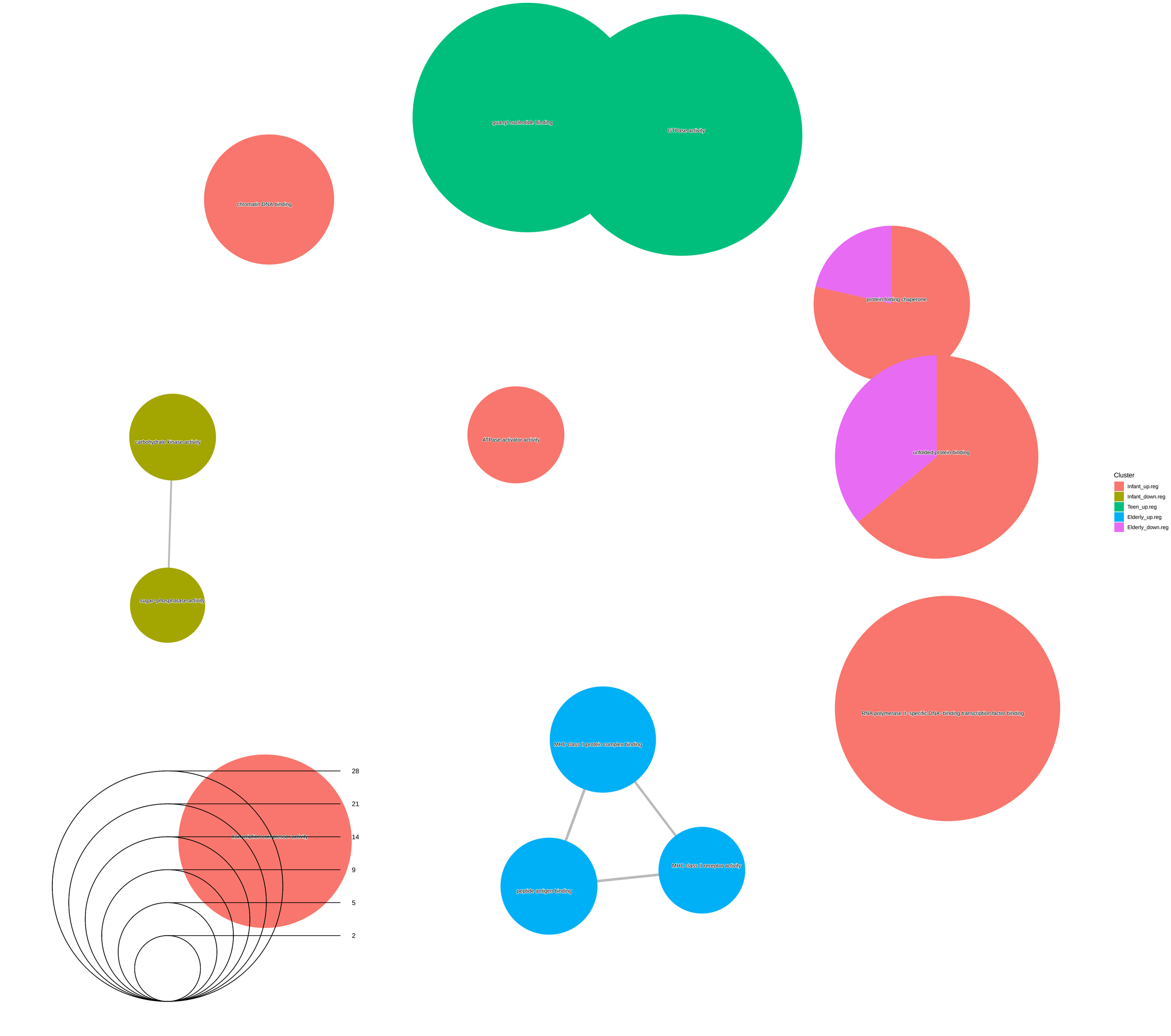
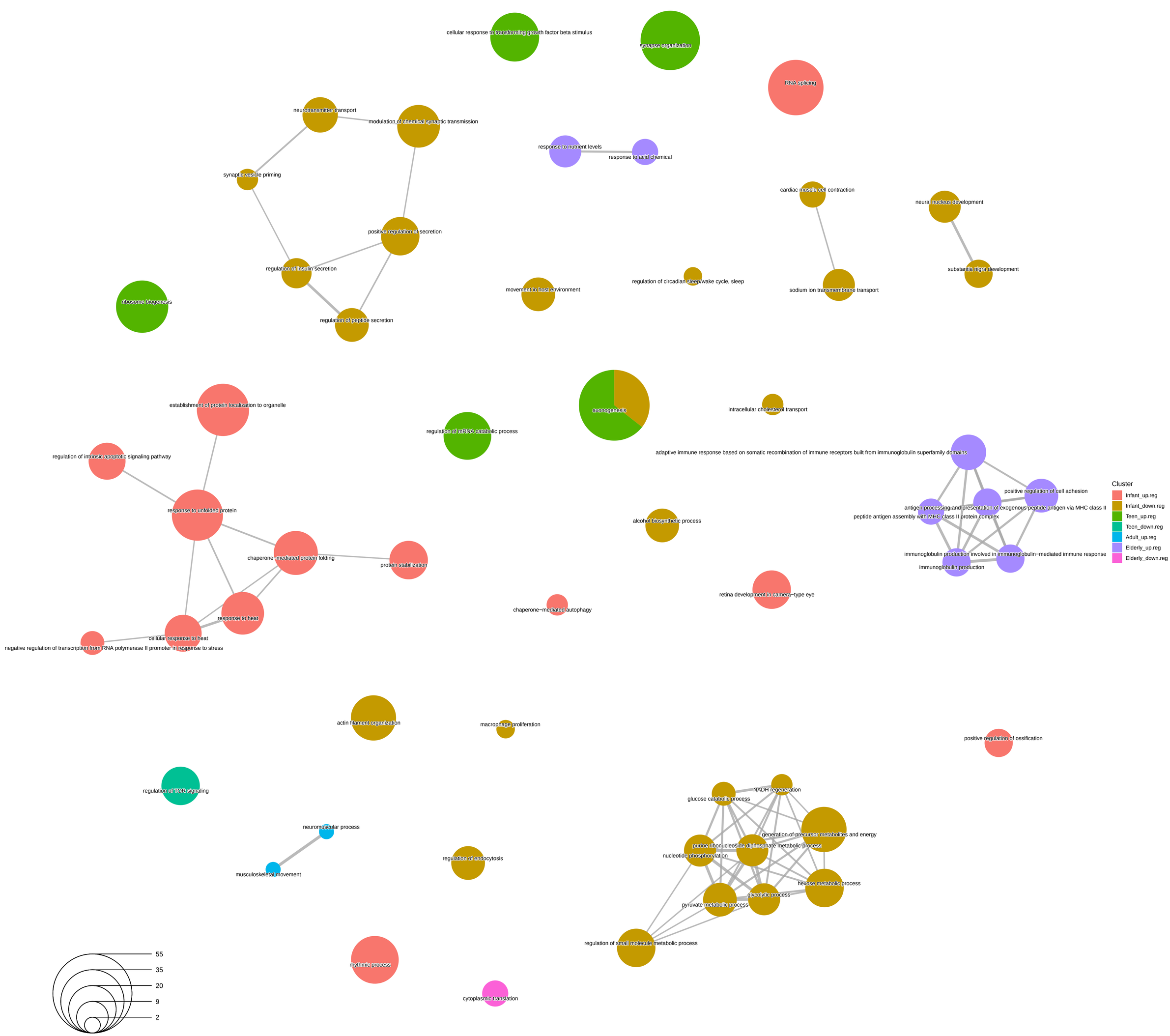
Infant_up.reg (397)
Infant_down.reg (242)
Teen_up.reg (616)
Teen_down.reg (359)
Adult_up.reg (7)
Elderly_up.reg (101)
Elderly_down.reg (59)

Cluster

Parent GO terms for Cellular Compartment for Age groups in Granular Cell Region



Parent GO terms for Molecular Function for Age groups in Granular Cell Region



Parent GO terms for Biological Process for Age groups in Granular Cell Region