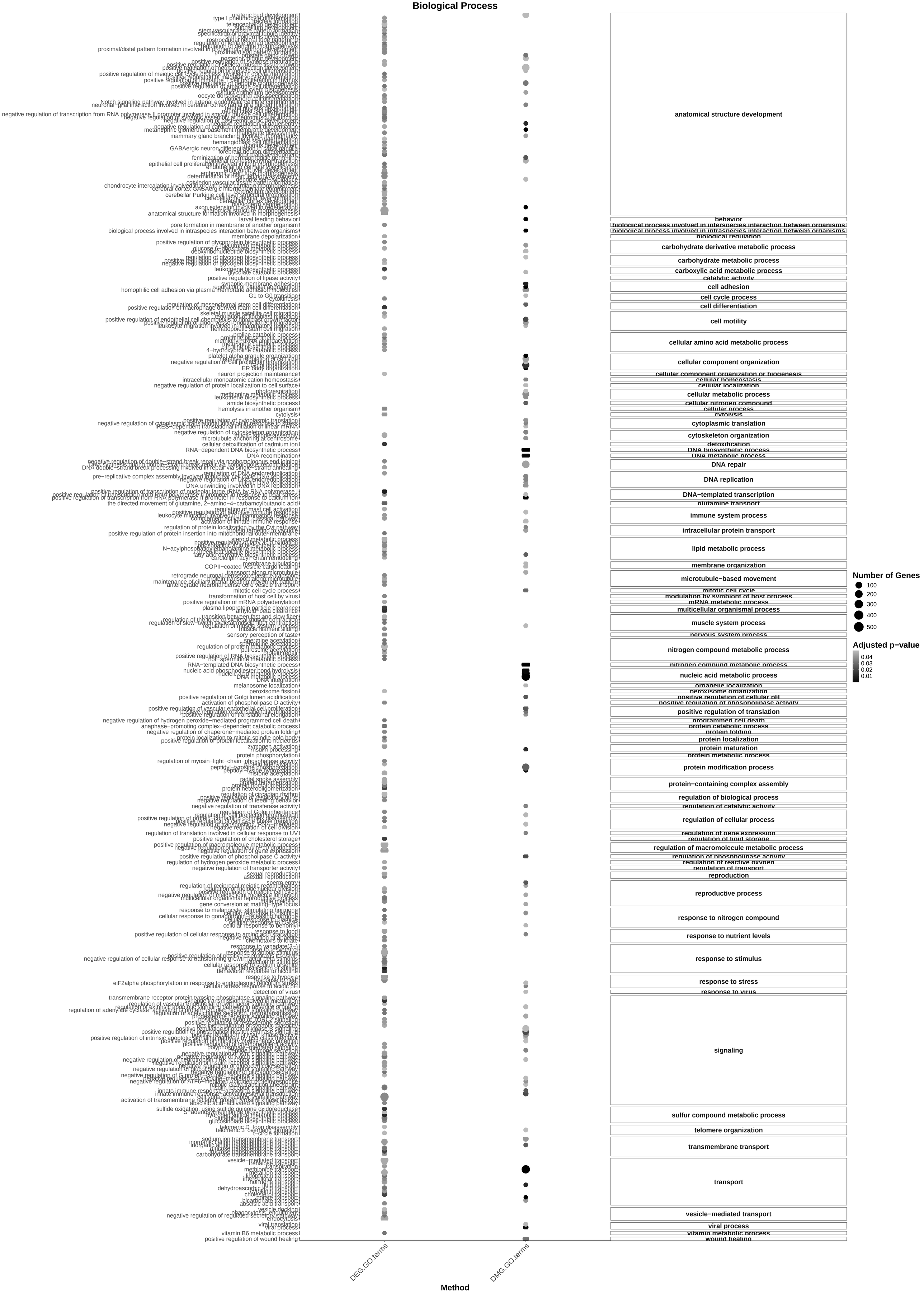
Biological Process
ureteric bud development
type I pneumocyte differentiation
trachea formation
telencephalon development
stem vascular tissue pattern formation
specification of proximal tubule identity
skin epidermis development
rostrocaudal neural tube patterning
regulation of female gonad development
regulation of dendrite morphogenesis
proximal/distal pattern formation involved in pronephric nephron development
proximal/distal pattern formation
prostate gland growth
posterior midgut development
positive regulation of synapse maturation
positive regulation of skeletal muscle tissue growth
positive regulation of neuron projection development
positive regulation of muscle cell differentiation
positive regulation of meiotic cell cycle process involved in oocyte maturation
positive regulation of megakaryocyte differentiation
positive regulation of immature T cell proliferation in thymus
positive regulation of dendrite morphogenesis
positive regulation of amacrine cell differentiation
phloem or xylem histogenesis
oviduct epithelium development
oocyte dorsal/ventral axis specification
Notch signaling pathway involved in arterial endothelial cell fate commitment
neuronal−glial interaction involved in cerebral cortex radial glia guided migration
neural nucleus development
neural crest cell development
negative regulation of transcription from RNA polymerase II promoter involved in smooth muscle cell differentiation
negative regulation of synaptic assembly at neuromuscular junction
negative regulation of kidney epithelium development
negative regulation of erythrocyte differentiation
negative regulation of cardiac muscle cell differentiation
metanephric glomerular basement membrane development
mammary gland branching involved in pregnancy
chaperone disassembly
male sex determination
hemangioblast cell differentiation
foramen ovale development
GABAergic neuron differentiation in basal ganglia
forebrain neuron differentiation
floor plate development
feminization of hermaphroditic germline
epithelial to mesenchymal transition
epithelial cell proliferation involved in lung morphogenesis
endothelial tip cell fate specification
embryonic liver development
embryonic heart tube morphogenesis
determination of heart left/right asymmetry
cotyledon vascular tissue pattern formation
chondrocyte intercalation involved in growth plate cartilage morphogenesis
cerebral cortex GABAergic interneuron migration
cerebellum development
cerebellar Purkinje cell layer structural organization
cerebellar molecular layer formation
cerebellar cortex development
blastoderm segmentation
axon extension involved in regeneration
anatomical structure morphogenesis
anatomical structure formation involved in morphogenesis
larval feeding behavior
pore formation in membrane of another organism
biological process involved in intraspecies interaction between organisms
membrane depolarization
positive regulation of glycoprotein biosynthetic process
2−hydroxyacid metabolic process
glucose 6−phosphate metabolic process
deoxyribonucleotide biosynthetic process
regulation of glycogen biosynthetic process
positive regulation of glycogen biosynthetic process
negative regulation of glycogen biosynthetic process
leukotriene biosynthetic process
glycolate catabolic process
positive regulation of lipase activity
synaptic membrane adhesion
regulation of platelet aggregation
homophilic cell adhesion via plasma membrane adhesion molecules
G1 to G0 transition
cytokinesis
regulation of mesenchymal stem cell differentiation
positive regulation of macrophage derived foam cell differentiation
skeletal muscle satellite cell migration
regulation of fibroblast proliferation
positive regulation of endothelial cell chemotaxis to fibroblast growth factor
positive regulation of blood vessel endothelial cell migration
leukocyte migration involved in inflammatory response
hematopoietic stem cell migration
proline catabolic process
ornithine biosynthetic process
methionyl−tRNA aminoacylation
methionine catabolic process
lysine biosynthetic process
4−hydroxyproline catabolic process
platelet alpha granule organization
negative regulation of cell size
negative regulation of cell projection organization
ER body organization
neuron projection maintenance
intracellular monoatomic cation homeostasis
negative regulation of protein localization to cell surface
photorespiration
methionine metabolic process
leukotriene biosynthetic process
amide biosynthetic process
hemolysis in another organism
cytolysis
positive regulation of cytoplasmic translation
negative regulation of cytoplasmic translational initiation in response to stress
IRES−dependent translational initiation of linear mRNA
negative regulation of cytoskeleton organization
mitotic spindle assembly
microtubule anchoring at centrosome
cellular detoxification of cadmium ion
RNA−dependent DNA biosynthetic process
DNA recombination
negative regulation of double−strand break repair via nonhomologous end joining
DNA synthesis during double−strand break repair via homologous recombination
DNA double−strand break processing involved in repair via single−strand annealing
regulation of DNA endoreduplication
pre−replicative complex assembly involved in nuclear cell cycle DNA replication
negative regulation of DNA endoreduplication
mitotic DNA replication
DNA unwinding involved in DNA replication
positive regulation of transcription of nucleolar large rRNA by RNA polymerase I
positive regulation of transcription from RNA polymerase II promoter in response to heat stress
positive regulation of transcription from RNA polymerase II promoter in response to calcium ion
the directed movement of glutamine, 2−amino−4−carbamoylbutanoic acid
regulation of mast cell activation
positive regulation of adaptive immune response
leukocyte migration involved in inflammatory response
complement activation, classical pathway
activation of innate immune response
regulation of protein localization by the Cvt pathway
protein targeting to vacuole
positive regulation of protein insertion into mitochondrial outer membrane
steroid metabolic process
positive regulation of fatty acid oxidation
phosphatidic acid biosynthetic process
N−acylphosphatidylethanolamine metabolic process
green leaf volatile biosynthetic process
fatty acid derivative biosynthetic process
cardiolipin acyl−chain remodeling
membrane tubulation
COPII−coated vesicle cargo loading
transport along microtubule
retrograde neuronal dense core vesicle transport
protein transport along microtubule
maintenance of ciliary planar beating movement pattern
anterograde neuronal dense core vesicle transport
mitotic cell cycle process
transformation of host cell by virus
positive regulation of mRNA polyadenylation
plasma lipoprotein particle clearance
amyloid−beta clearance
transition between fast and slow fiber
regulation of the force of skeletal muscle contraction
regulation of slow−twitch skeletal muscle fiber contraction
regulation of muscle system process
muscle filament sliding
sensory perception of taste
spermine acetylation
spermidine acetylation
regulation of protein metabolic process
putrescine acetylation
protein deadenylation
positive regulation of RNA biosynthetic process
nor−spermidine metabolic process
RNA−templated DNA biosynthetic process
nucleic acid phosphodiester bond hydrolysis
nucleic acid metabolic process
DNA metabolic process
DNA integration
melanosome localization
peroxisome fission
positive regulation of Golgi lumen acidification
activation of phospholipase D activity
positive regulation of vascular endothelial cell proliferation
positive regulation of translational fidelity
positive regulation of translational elongation
negative regulation of hydrogen peroxide−mediated programmed cell death
anaphase−promoting complex−dependent catabolic process
negative regulation of chaperone−mediated protein folding
protein localization to mitotic spindle pole body
positive regulation of protein localization to nucleolus
zymogen activation
insulin processing
protein phosphorylation
regulation of myosin−light−chain−phosphatase activity
protein adenylylation
peptidyl−tyrosine phosphorylation
peptidyl−lysine hydroxylation
histone acetylation
radial spoke assembly
protein heterodimerization
protein homodimerization
protein heterooligomerization
regulation of circadian rhythm
positive regulation of respiratory burst
negative regulation of feeding behavior
negative regulation of transferase activity
regulation of Golgi inheritance
regulation of cell projection organization
positive regulation of protein−containing complex disassembly
positive regulation of cell cycle phase transition
negative regulation of transposition, RNA−mediated
negative regulation of cell division
regulation of translation involved in cellular response to UV
positive regulation of cholesterol storage
positive regulation of macromolecule metabolic process
negative regulation of interleukin−10 production
negative regulation of gene expression
positive regulation of phospholipase C activity
regulation of hydrogen peroxide metabolic process
negative regulation of transporter activity
sexual reproduction
asexual reproduction
sperm entry
regulation of reciprocal meiotic recombination
regulation of meiotic nuclear division
positive regulation of meiotic cell cycle
negative regulation of meiotic joint molecule formation
multicellular organismal reproductive process
male meiosis
gene conversion at mating−type locus
response to melanocyte−stimulating hormone
cellular response to insulin
cellular response to gonadotropin−releasing hormone
cellular response to diamide
cellular response to cGMP
cellular response to benomyl
response to food
positive regulation of cellular response to amino acid starvation
negative regulation of apoptosis
chemotaxis to folate
response to vanadate(3−)
response to resveratrol
response to abiotic stimulus
positive regulation of positive chemotaxis to cAMP
negative regulation of cellular response to transforming growth factor beta stimulus
detection of light stimulus
cellular response to sodium arsenite
cellular detoxification of sulfide
behavioral response to nicotine
response to hypoxia
response to heat
eiF2alpha phosphorylation in response to endoplasmic reticulum stress
cellular stress response to acidic pH
detection of virus
transmembrane receptor protein tyrosine phosphatase signaling pathway
synaptic transmission involved in micturition
regulation of vascular endothelial growth factor signaling pathway
regulation of extrinsic apoptotic signaling pathway in absence of ligand
regulation of adenylate cyclase−activating G protein−coupled receptor signaling pathway
regulation of acetylcholine secretion, neurotransmission
progesterone receptor signaling pathway
positive regulation of JNK cascade
positive regulation of testosterone secretion
positive regulation of synaptic plasticity
positive regulation of protein kinase B signaling
positive regulation of phosphatidylinositol 3−kinase signaling
positive regulation of MAP kinase activity
positive regulation of intrinsic apoptotic signaling pathway by p53 class mediator
positive regulation of inhibitory postsynaptic potential
positive regulation of chemorepellent activity
polyphosphate−mediated signaling
peptide hormone secretion
negative regulation of Wnt signaling pathway
negative regulation of Notch signaling pathway
negative regulation of neurotrophin TRK receptor signaling pathway
negative regulation of insulin receptor signaling pathway
negative regulation of glucocorticoid secretion
negative regulation of glucocorticoid receptor signaling pathway
negative regulation of glucagon secretion
negative regulation of G protein−coupled receptor signaling pathway
negative regulation of cytokine−mediated signaling pathway
negative regulation of ATF6−mediated unfolded protein response
mitotic G2/M transition checkpoint
insulin receptor signaling pathway
innate immune response−activating signaling pathway
innate immune response−activating cell surface receptor signaling pathway
activation of transmembrane receptor protein tyrosine kinase activity
abscisic acid−activated signaling pathway
sulfide oxidation, using sulfide:quinone oxidoreductase
S−adenosylmethionine biosynthetic process
hydrogen sulfide metabolic process
glutathione biosynthetic process
glucosinolate biosynthetic process
telomeric D−loop disassembly
telomeric 3' overhang formation
T−circle formation
sodium ion transmembrane transport
inorganic cation transmembrane transport
inorganic anion transmembrane transport
glucose transmembrane transport
fructose transmembrane transport
carbohydrate transmembrane transport
vesicle−mediated transport
trehalose transport
transpiration
methionine transport
metal ion transport
lipoprotein transport
intracellular transport
hormone transport
fluid transport
dehydroascorbic acid transport
cytokinin transport
cholesterol transport
borate transport
bicarbonate transport
abscisic acid transport
vesicle docking
phagocytosis, engulfment
negative regulation of regulated secretory pathway
endocytosis
viral translation
viral process
vitamin B6 metabolic process
positive regulation of wound healing
DEG.GO.terms
DMG.GO.terms
Method
anatomical structure development
behavior
biological process involved in interspecies interaction between organisms
biological process involved in intraspecies interaction between organisms
biological regulation
carbohydrate derivative metabolic process
carbohydrate metabolic process
carboxylic acid metabolic process
catalytic activity
cell adhesion
cell cycle process
cell differentiation
cell motility
cellular amino acid metabolic process
cellular component organization
cellular component organization or biogenesis
cellular homeostasis
cellular localization
cellular metabolic process
cellular nitrogen compound
cellular process
cytolysis
cytoplasmic translation
cytoskeleton organization
detoxification
DNA biosynthetic process
DNA metabolic process
DNA repair
DNA replication
DNA−templated transcription
glutamine transport
immune system process
intracellular protein transport
lipid metabolic process
membrane organization
microtubule−based movement
mitotic cell cycle
modulation by symbiont of host process
mRNA metabolic process
multicellular organismal process
muscle system process
nervous system process
nitrogen compound metabolic process
nitrogen compound metabolic process
nucleic acid metabolic process
organelle localization
peroxisome organization
positive regulation of cellular pH
positive regulation of phospholipase activity
positive regulation of translation
programmed cell death
protein catabolic process
protein folding
protein localization
protein maturation
protein metabolic process
protein modification process
protein−containing complex assembly
regulation of biological process
regulation of catalytic activity
regulation of cellular process
regulation of gene expression
regulation of lipid storage
regulation of macromolecule metabolic process
regulation of phospholipase activity
regulation of reactive oxygen
regulation of transport
reproduction
reproductive process
response to nitrogen compound
response to nutrient levels
response to stimulus
response to stress
response to virus
signaling
sulfur compound metabolic process
telomere organization
transmembrane transport
transport
vesicle−mediated transport
viral process
vitamin metabolic process
wound healing
Number of Genes
100
200
300
400
500
Adjusted p−value
0.04
0.03
0.02
0.01