Main functions from overrepresentation analysis plotted by tissue

Spleen FUNCTION 1×10^{-65} lymphocyte activation 3×10^{-56} T cell activation 4×10^{-53} adaptive immune response 5×10^{-50} immune effector process 8×10^{-50} positive regulation of immune response regulation of cell activation 3×10^{-49} 4×10^{-49} regulation of leukocyte activation 8×10^{-48} regulation of lymphocyte activation leukocyte cell-cell adhesion 2×10^{-42} immune response-regulating signaling pathway 1×10^{-41}

Α

Heart	
FUNCTION	ADJ_P_VALUE
muscle cell development	3×10^{-27}
muscle structure development	1×10^{-26}
myofibril assembly	2×10^{-24}
striated muscle cell development	2×10^{-24}
muscle tissue development	3×10^{-24}
cardiac muscle tissue development	3×10^{-24}
muscle system process	3×10^{-24}
striated muscle tissue development	2×10^{-23}
muscle cell differentiation	5×10^{-23}
heart contraction	1×10^{-22}

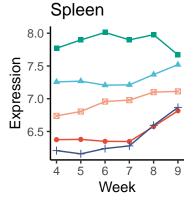
Muscle - Skeletal

C

FUNCTION	ADJ_P_VALUE
muscle structure development	7 × 10 ⁻²⁹
muscle system process	8×10^{-27}
muscle organ development	5 × 10 ⁻²⁵
muscle cell development	1×10^{-21}
muscle contraction	1×10^{-21}
muscle cell differentiation	4×10^{-20}
striated muscle cell differentiation	4×10^{-19}
myofibril assembly	3×10^{-18}
striated muscle cell development	3×10^{-18}
striated muscle contraction	1×10^{-16}
E	

Stomach

FUNCTION	ADJ_P_VALUE
digestion	1 × 10 ⁻⁴
regulation of hormone levels	6×10^{-4}
gastric acid secretion	2×10^{-3}
peptide hormone secretion	2×10^{-3}
peptide transport	2×10^{-3}
peptide secretion	3×10^{-3}
digestive system process	6×10^{-3}
amide transport	6×10^{-3}
hormone transport	6×10^{-3}
hormone secretion	6 × 10 ⁻³



Function

- adaptive immune response
- immune effector process
- lymphocyte activation
- + positive regulation of immune response

Week

muscle cell development

muscle structure development

muscle tissue development

Muscle - Skeletal

Week

muscle cell development muscle contraction

muscle system process

Week

peptide hormone secretion

- regulation of hormone levels

muscle structure development

striated muscle cell differentiation

Function

Stomach

Function

digestion

7.8

The solution of the solution o

7.0

T cell activation

Heart

Function

7.50

7.25 7.00 6.75

heart contraction

myofibril assembly

8.5

Expression

Brain	
FUNCTION	ADJ_P_VALUE
synaptic signaling	9 × 10 ⁻⁴³
trans-synaptic signaling	9 × 10 ⁻⁴³
chemical synaptic transmission	9×10^{-43}
anterograde trans-synaptic signaling	9×10^{-43}
modulation of chemical synaptic transmission	9×10^{-25}
regulation of trans-synaptic signaling	9 × 10 ⁻²⁵
neuron projection morphogenesis	2×10^{-18}
cell projection morphogenesis	8×10^{-18}
plasma membrane bounded cell projection morphogenesis	2×10^{-17}
cell part morphogenesis	2 × 10 ⁻¹⁷

В

Liver

FUNCTION	ADJ_P_VALUE
monocarboxylic acid metabolic process	7×10^{-51}
small molecule catabolic process	7×10^{-39}
organic acid catabolic process	4×10^{-36}
carboxylic acid catabolic process	2×10^{-35}
steroid metabolic process	7×10^{-33}
small molecule biosynthetic process	4×10^{-31}
cellular amino acid metabolic process	1×10^{-28}
fatty acid metabolic process	6×10^{-28}
organic hydroxy compound metabolic process	9×10^{-28}
alpha-amino acid metabolic process	3×10^{-27}

D

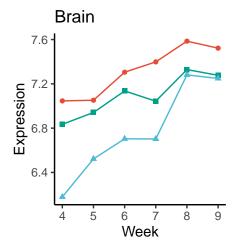
Testis

FUNCTION	ADJ_P_VALUE
male gamete generation	1 × 10 ⁻³⁵
spermatogenesis	3×10^{-34}
microtubule-based movement	2×10^{-26}
cilium organization	2×10^{-26}
cilium assembly	2×10^{-23}
microtubule cytoskeleton organization	2×10^{-23}
meiotic cell cycle	2×10^{-23}
cilium movement	3×10^{-20}
nuclear division	1×10^{-18}
meiotic cell cycle process	2×10^{-18}

F

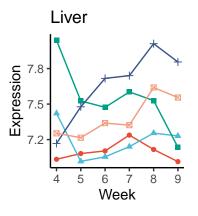
Skin

SKIII	
FUNCTION	ADJ_P_VALUE
epidermis development	2 × 10 ⁻²
skin development	9 × 10 ⁻²
keratinization	6 × 10 ⁻¹⁷
keratinocyte differentiation	2 × 10 ⁻¹⁴
epidermal cell differentiation	1×10^{-10}
intermediate filament cytoskeleton organization	9 × 10 ⁻¹⁰
intermediate filament-based process	1 × 10 ⁻⁹
intermediate filament organization	6 × 10 ⁻⁹
regulation of water loss via skin	2 × 10 ⁻⁸
establishment of skin barrier	1 × 10 ⁻⁷



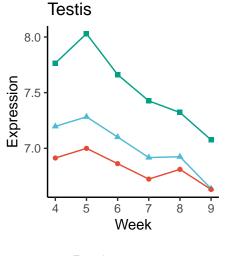
Function

- modulation of chemical synaptic transmission
- neuron projection morphogenesis
- synaptic signaling



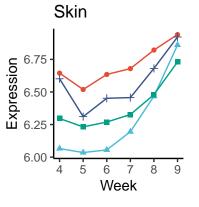
Function

- cellular amino acid metabolic process
- monocarboxylic acid metabolic process
- organic acid catabolic process
- organic hydroxy compound metabolic process
- steroid metabolic process



Function

- cilium assembly
- cilium organization
- male gamete generation



Function

- epidermis development
- keratinization
- keratinocyte differentiation
- + skin development

