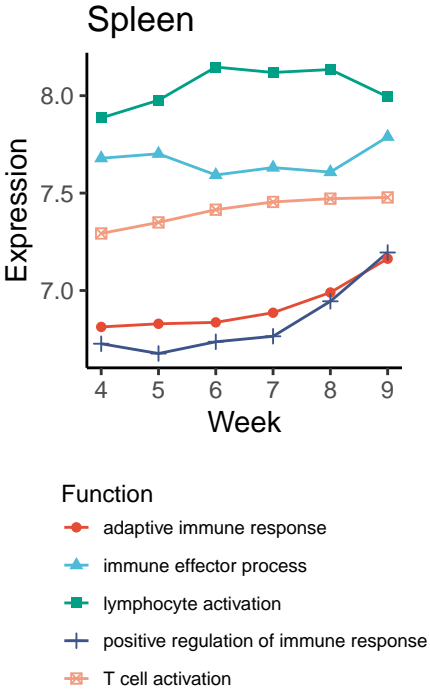


Main functions from overrepresentation analysis plotted by tissue

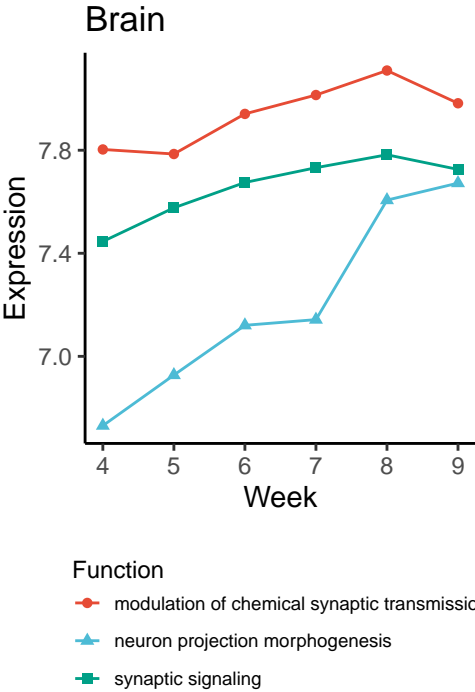
Spleen

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



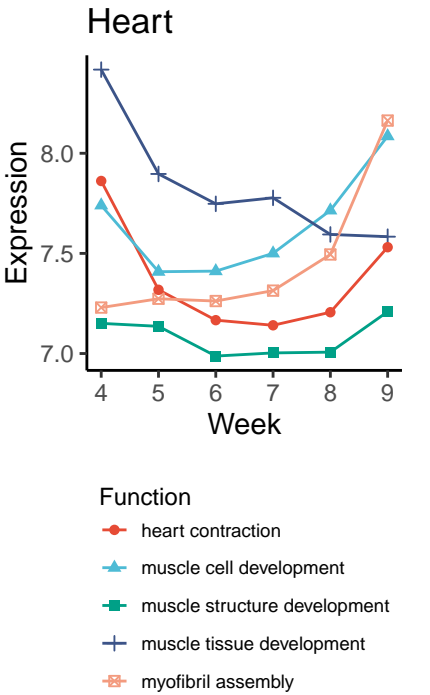
Brain

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



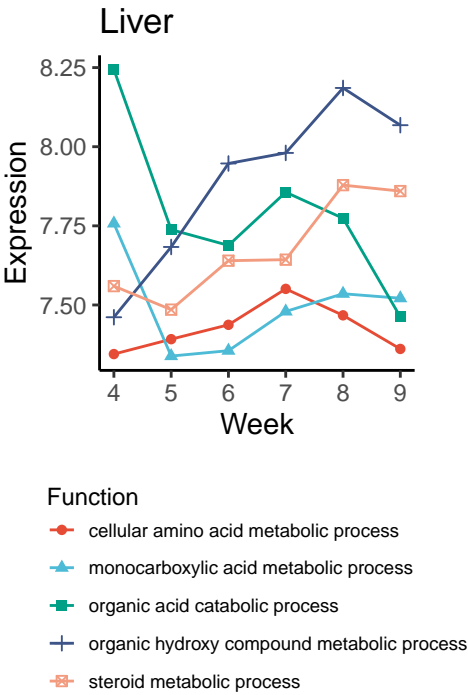
Heart

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



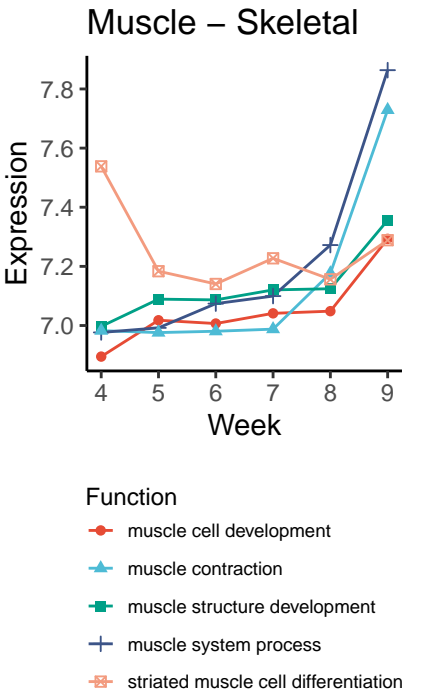
Liver

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



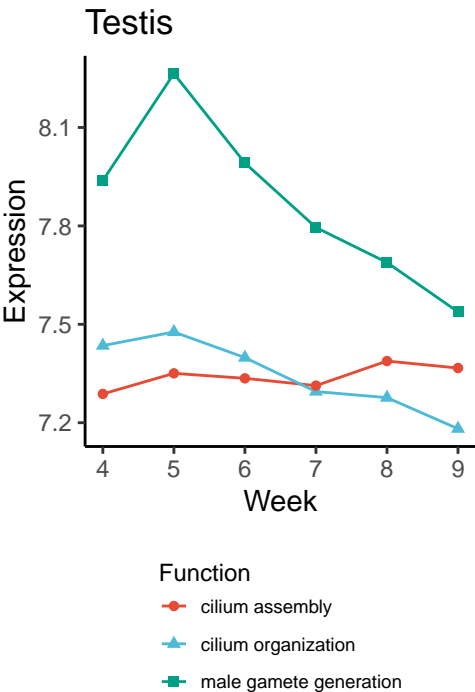
Muscle - Skeletal

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



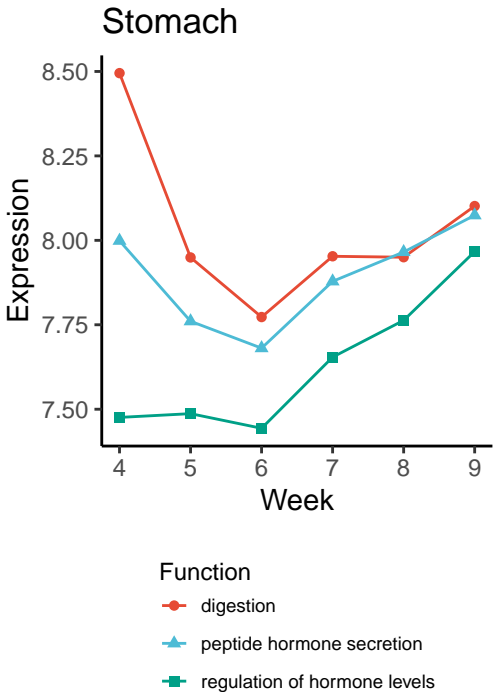
Testis

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



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



Skin

FUNCTION	ADJ_P_VALUE
epidermis development	2 × 10 ⁻²¹
skin development	9 × 10 ⁻²¹
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

