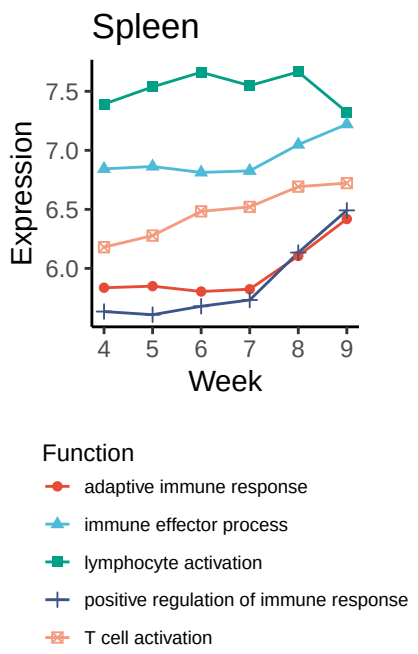
Main functions from overrepresentation analysis plotted by tissue

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}

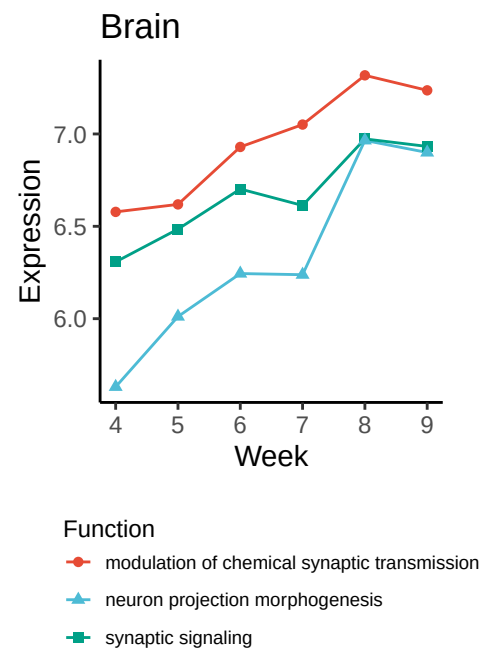
A



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}

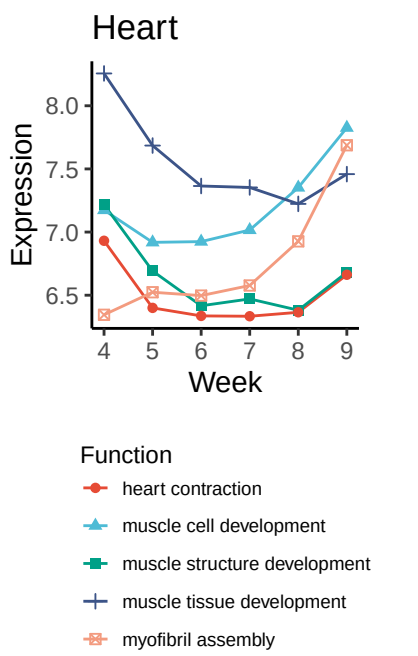
B



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}

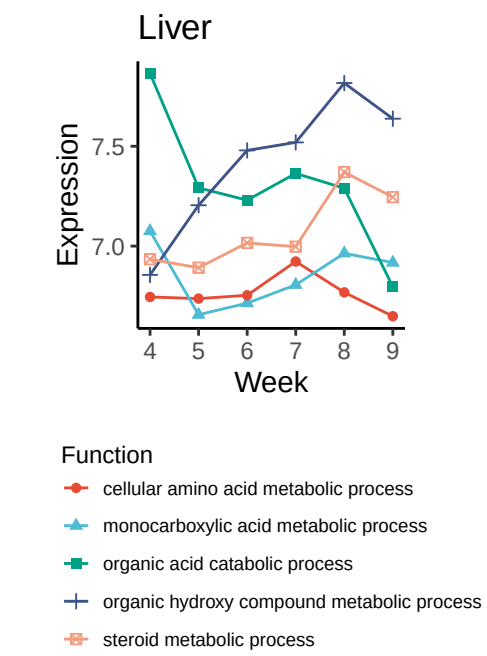
C



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}

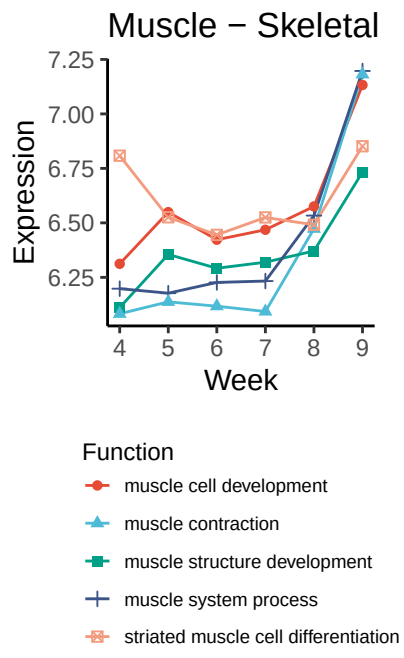
D



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}

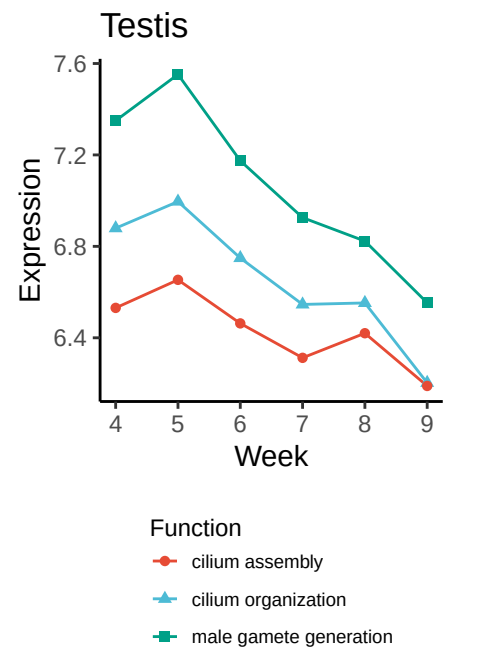
E



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}

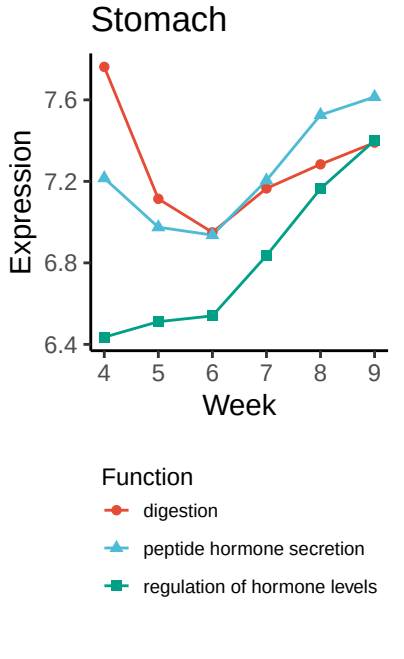
F



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}

G



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}

H