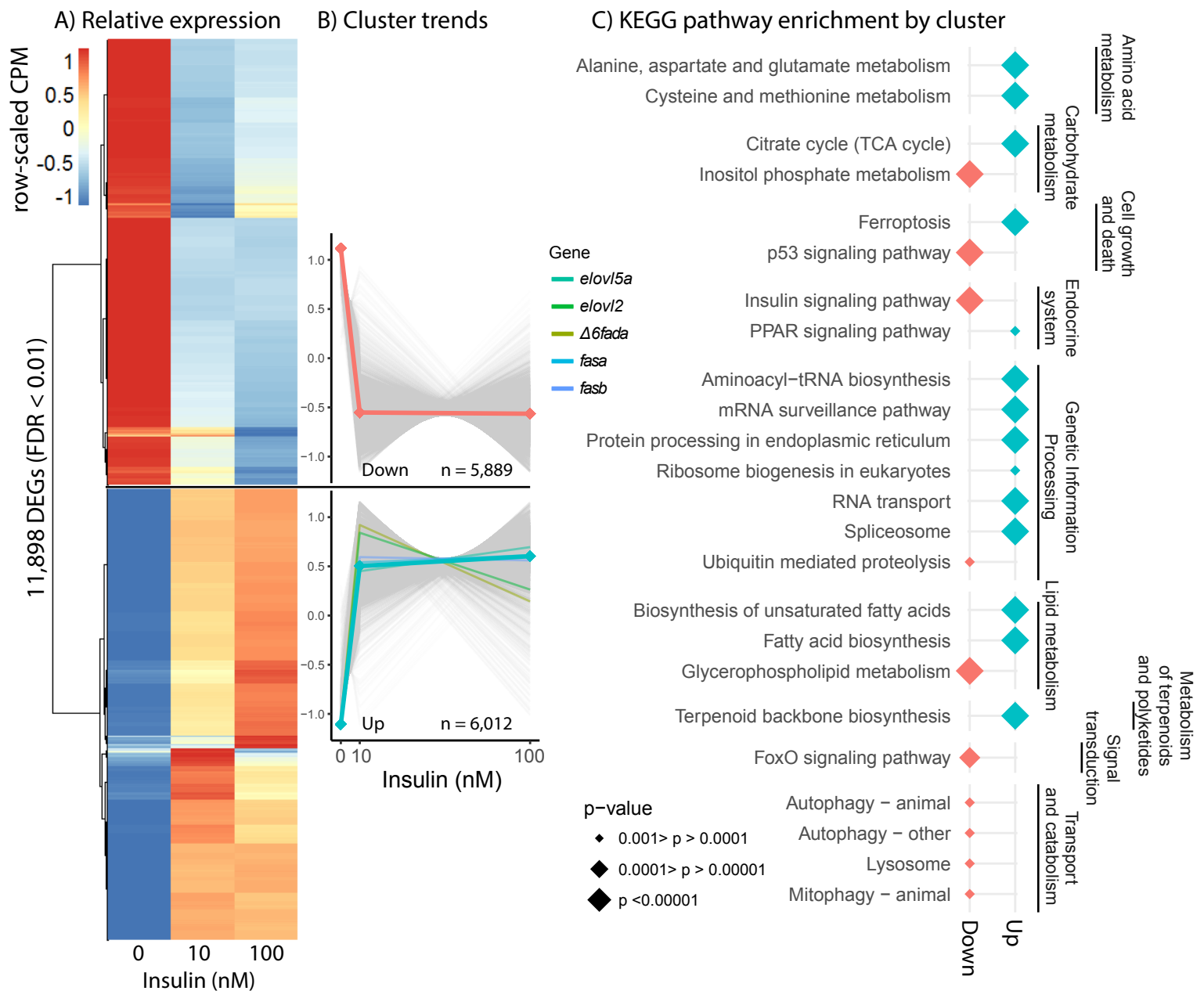
A) Relative expression
B) Cluster trends
C) KEGG pathway enrichment by cluster
row-scaled CPM
1
0.5
0
-0.5
-1
11,898 DEGs (FDR < 0.01)
0
10
100
Insulin (nM)
Gene
elovl5a
elovl2
Δ6fada
fasa
fasb
Down
n = 5,889
Up
n = 6,012
Insulin (nM)
Amino acid metabolism
Alanine, aspartate and glutamate metabolism
Cysteine and methionine metabolism
Carbohydrate metabolism
Citrate cycle (TCA cycle)
Inositol phosphate metabolism
Cell growth and death
Ferroptosis
p53 signaling pathway
Endocrine system
Insulin signaling pathway
PPAR signaling pathway
Genetic Information Processing
Aminoacyl−tRNA biosynthesis
mRNA surveillance pathway
Protein processing in endoplasmic reticulum
Ribosome biogenesis in eukaryotes
RNA transport
Spliceosome
Ubiquitin mediated proteolysis
Lipid metabolism
Biosynthesis of unsaturated fatty acids
Fatty acid biosynthesis
Glycerophospholipid metabolism
Metabolism of terpenoids and polyketides
Terpenoid backbone biosynthesis
Signal transduction
FoxO signaling pathway
Transport and catabolism
Autophagy − animal
Autophagy − other
Lysosome
Mitophagy − animal
p−value
0.001> p > 0.0001
0.0001> p > 0.00001
p <0.00001
Down
Up