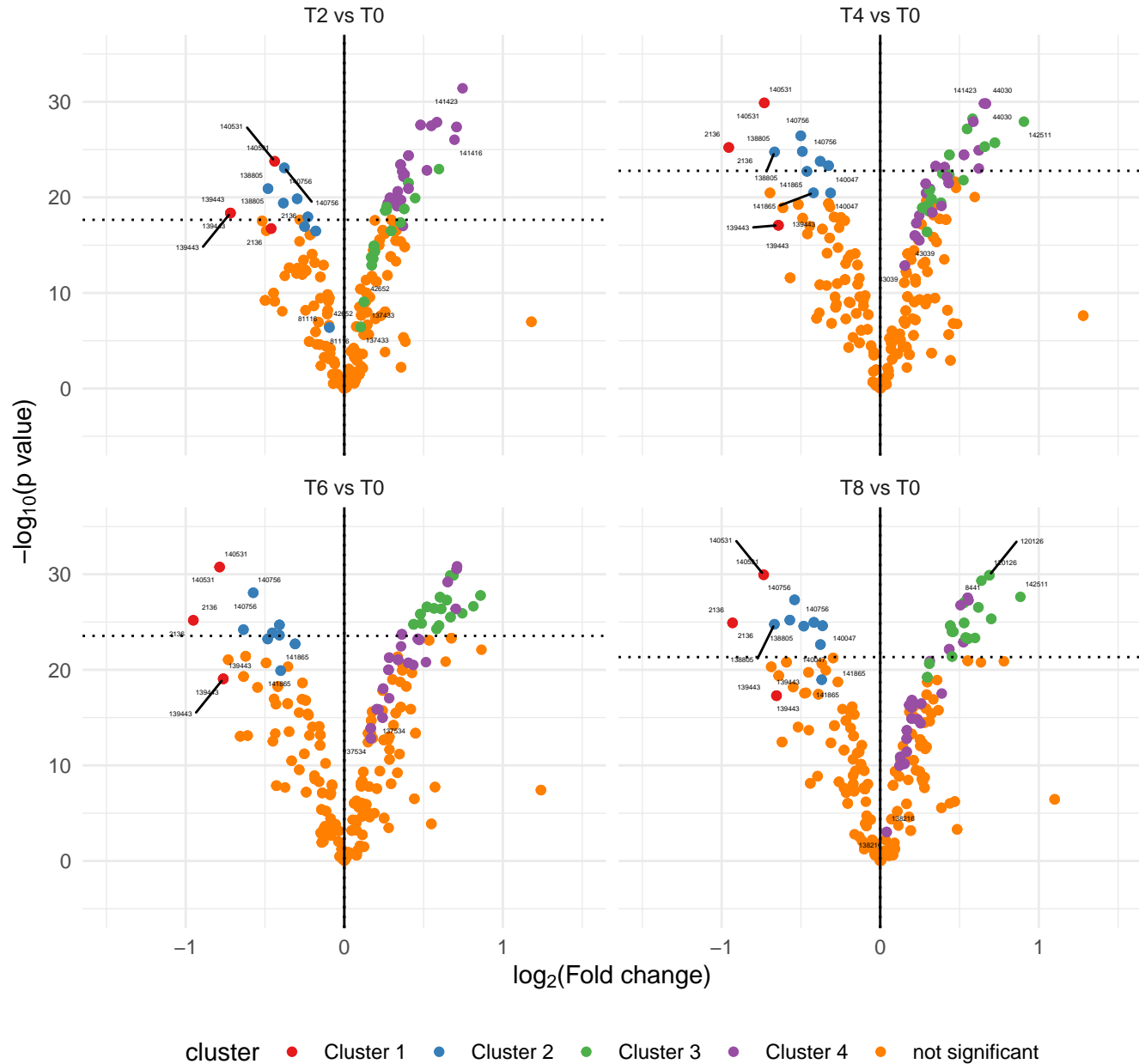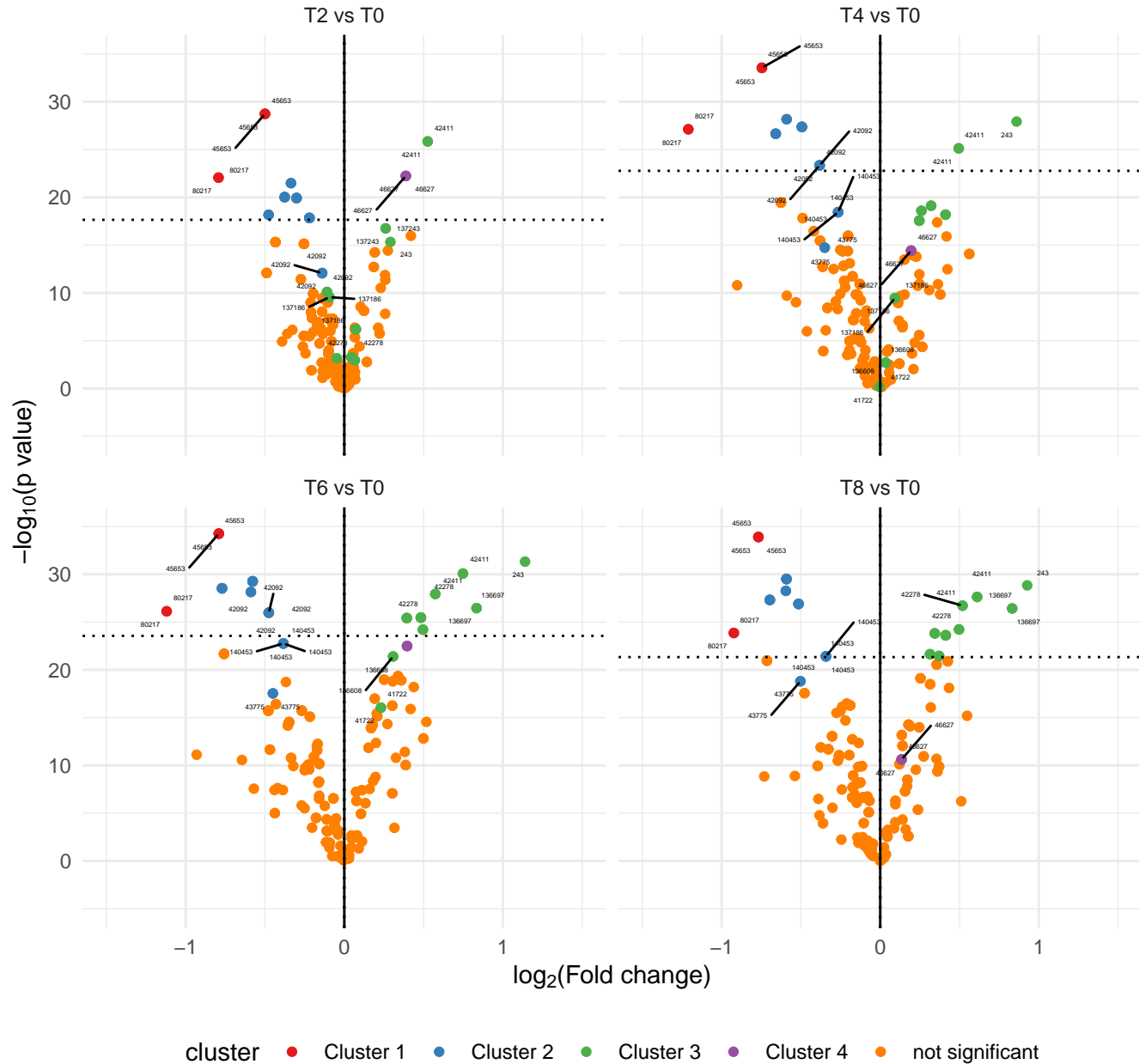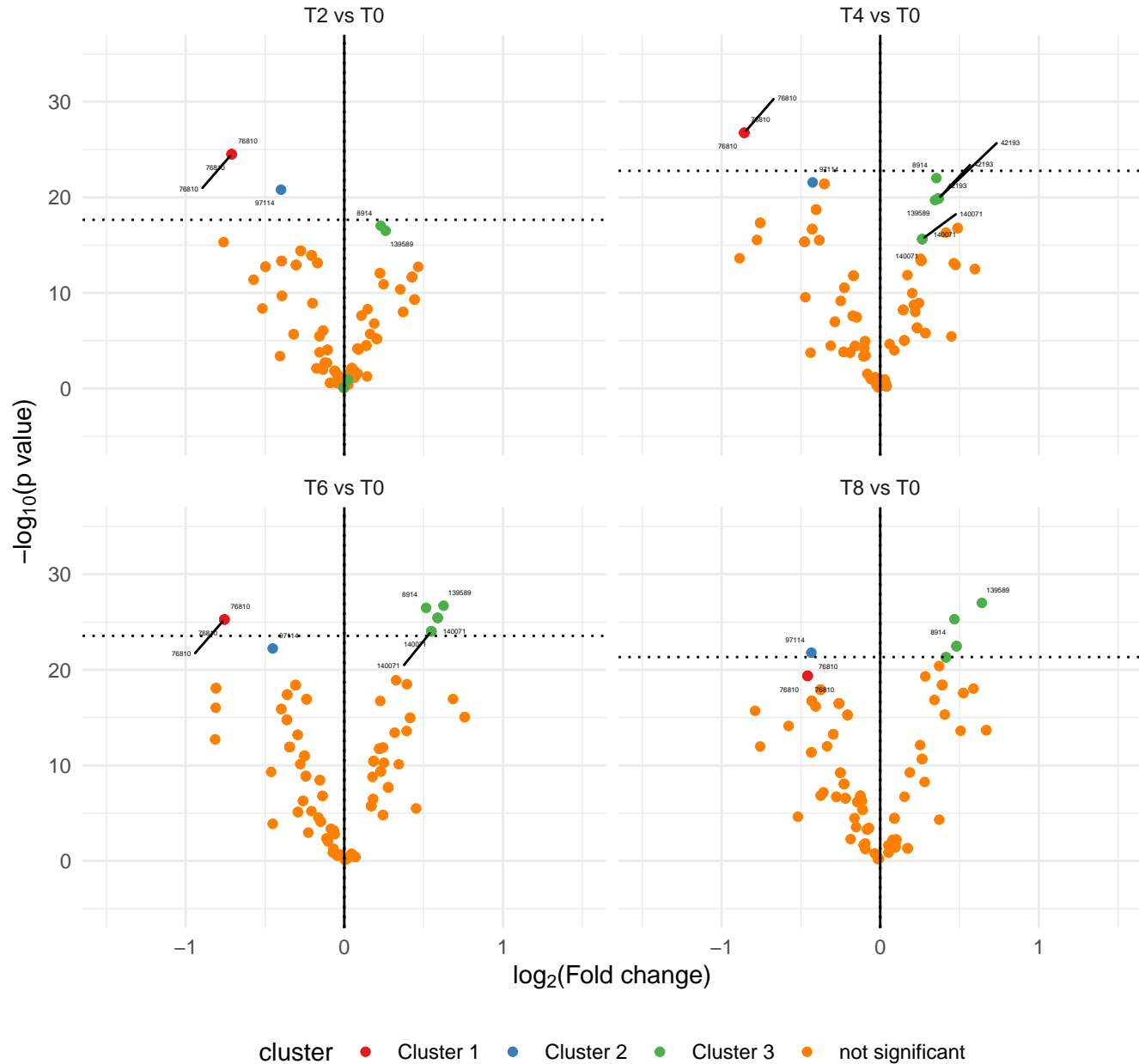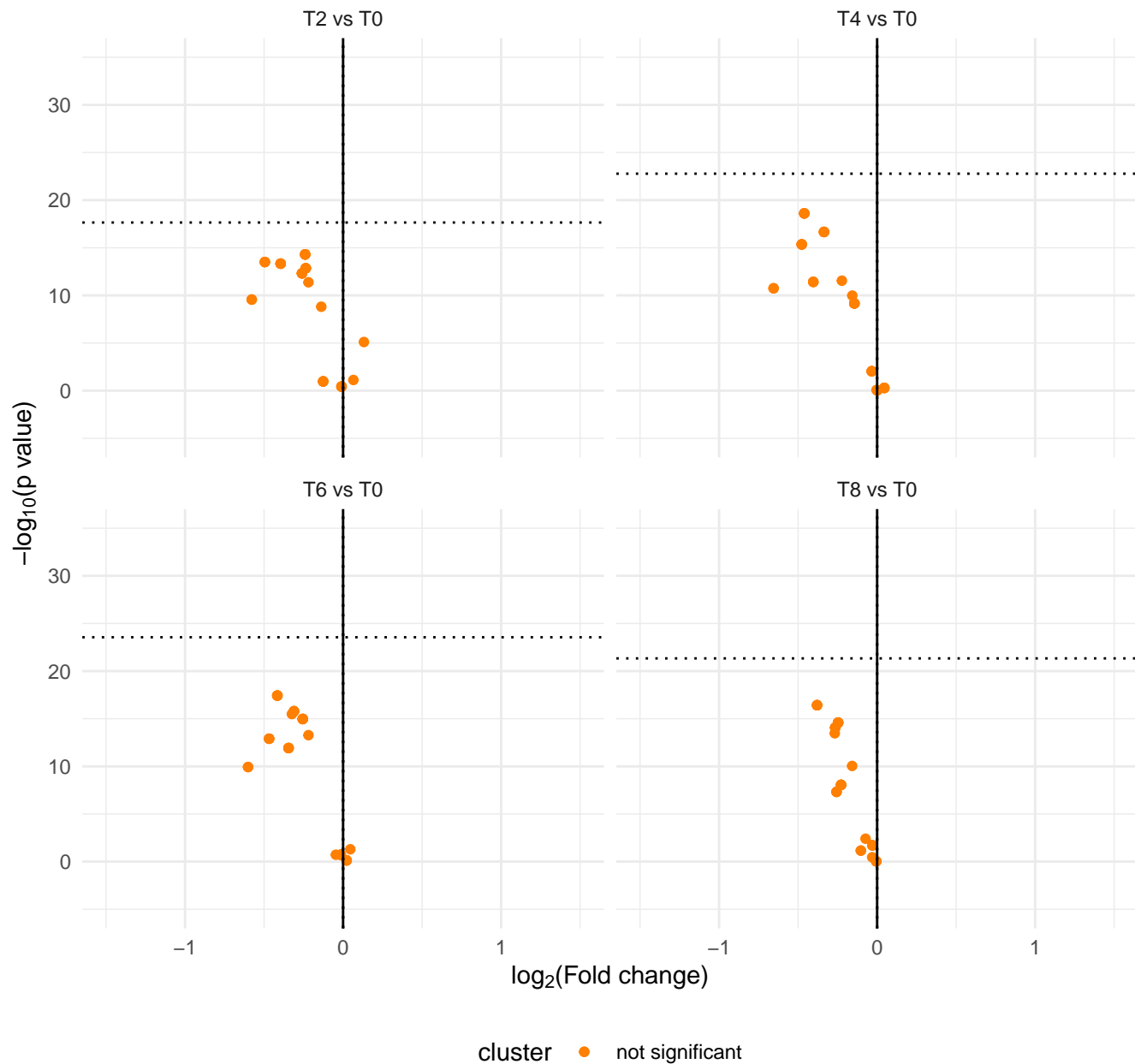Amino acid transport and metabolism
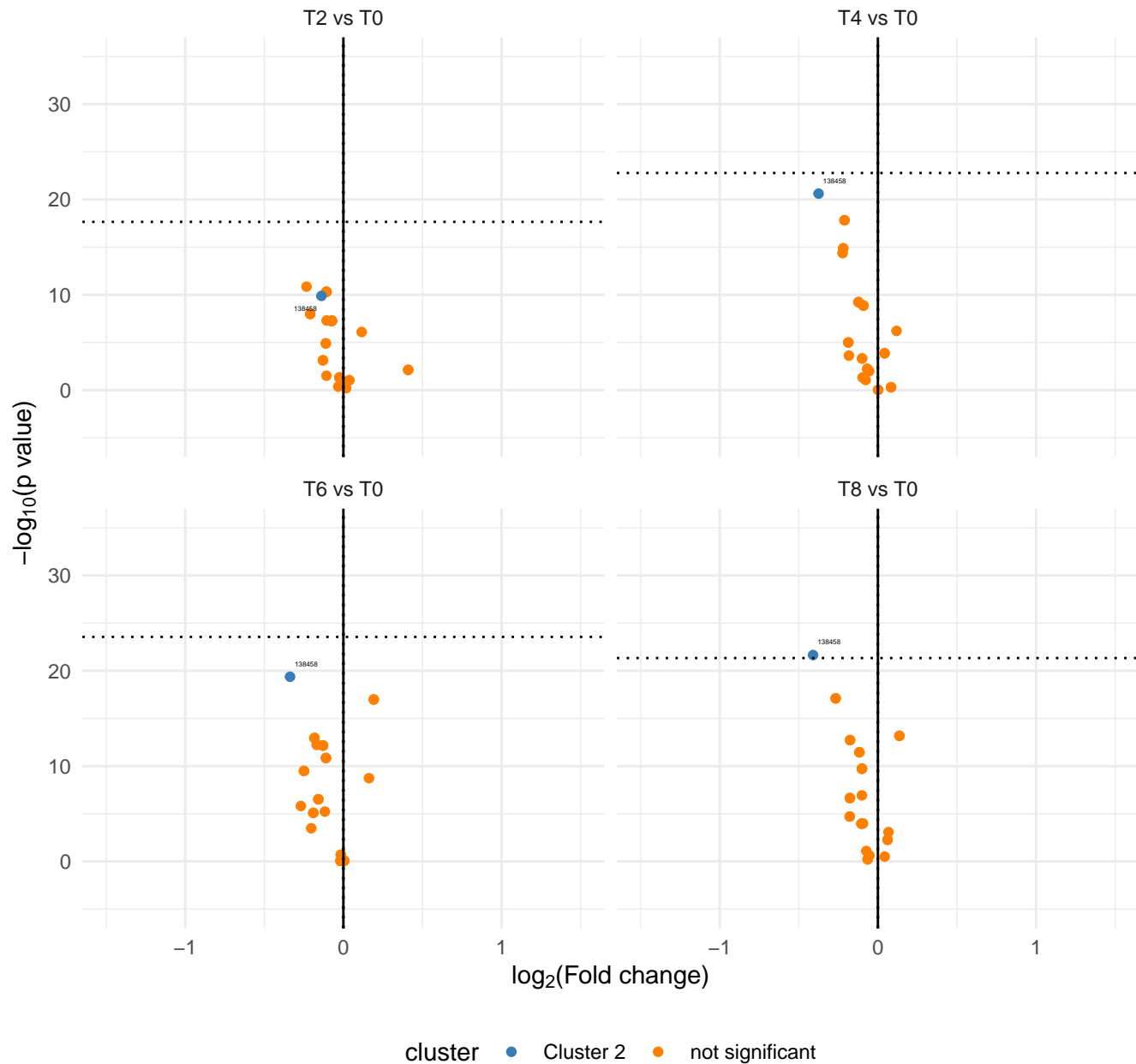
Carbohydrate transport and metabolism

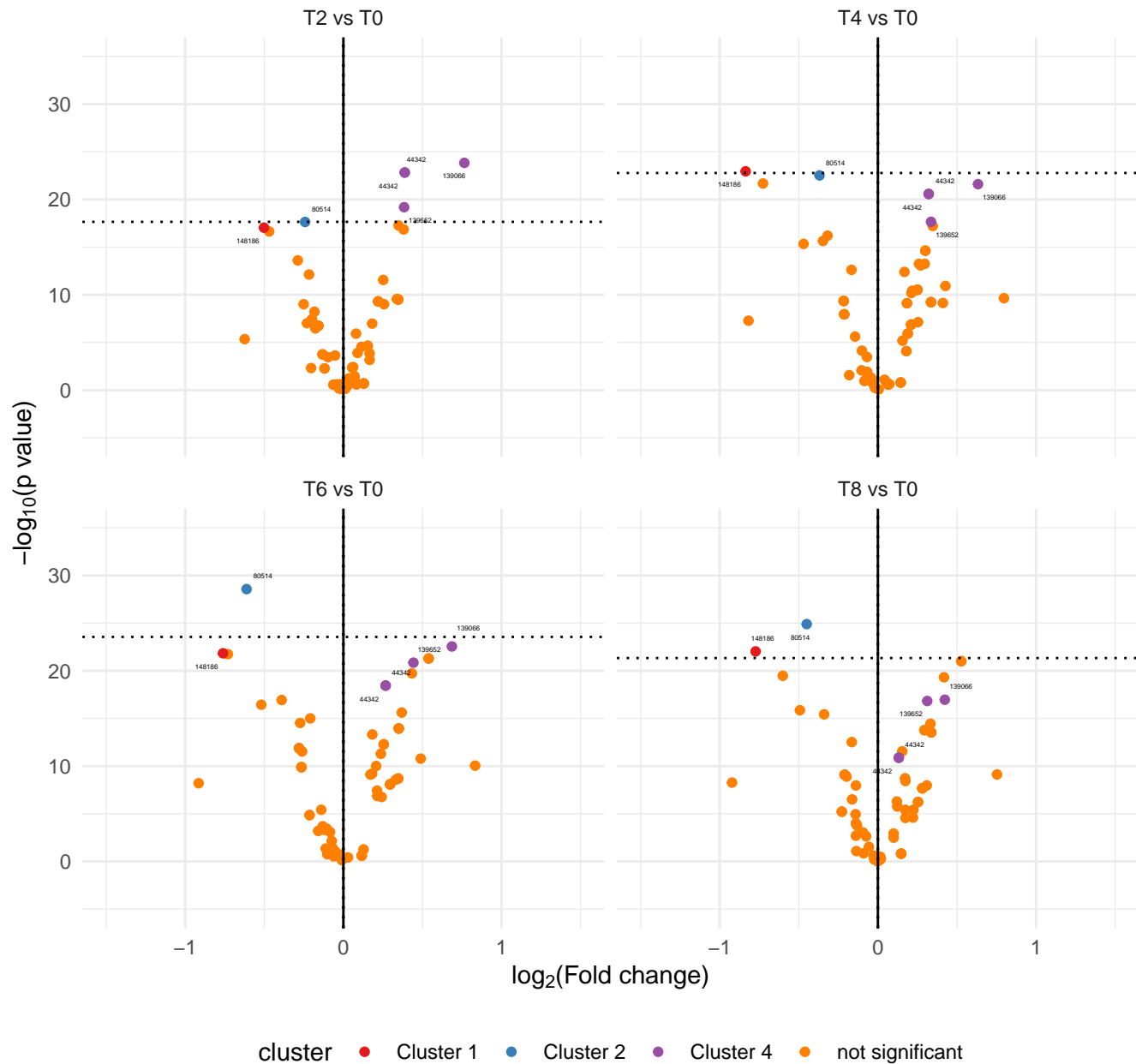Cell cycle control, cell division, chromosome partitioning
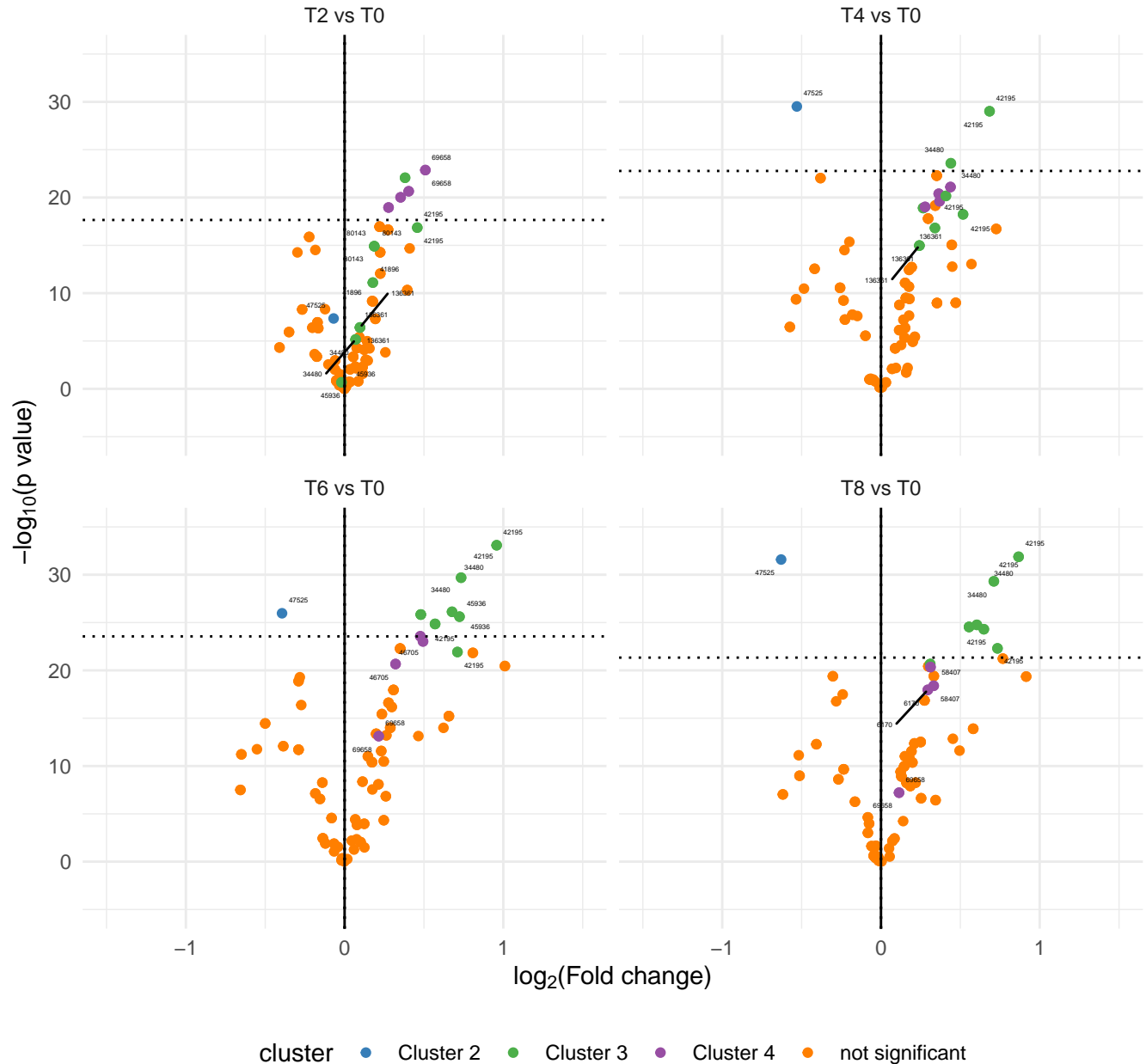
Cell motility

Cell wall/membrane/envelope biogenesis

Chromatin structure and dynamics
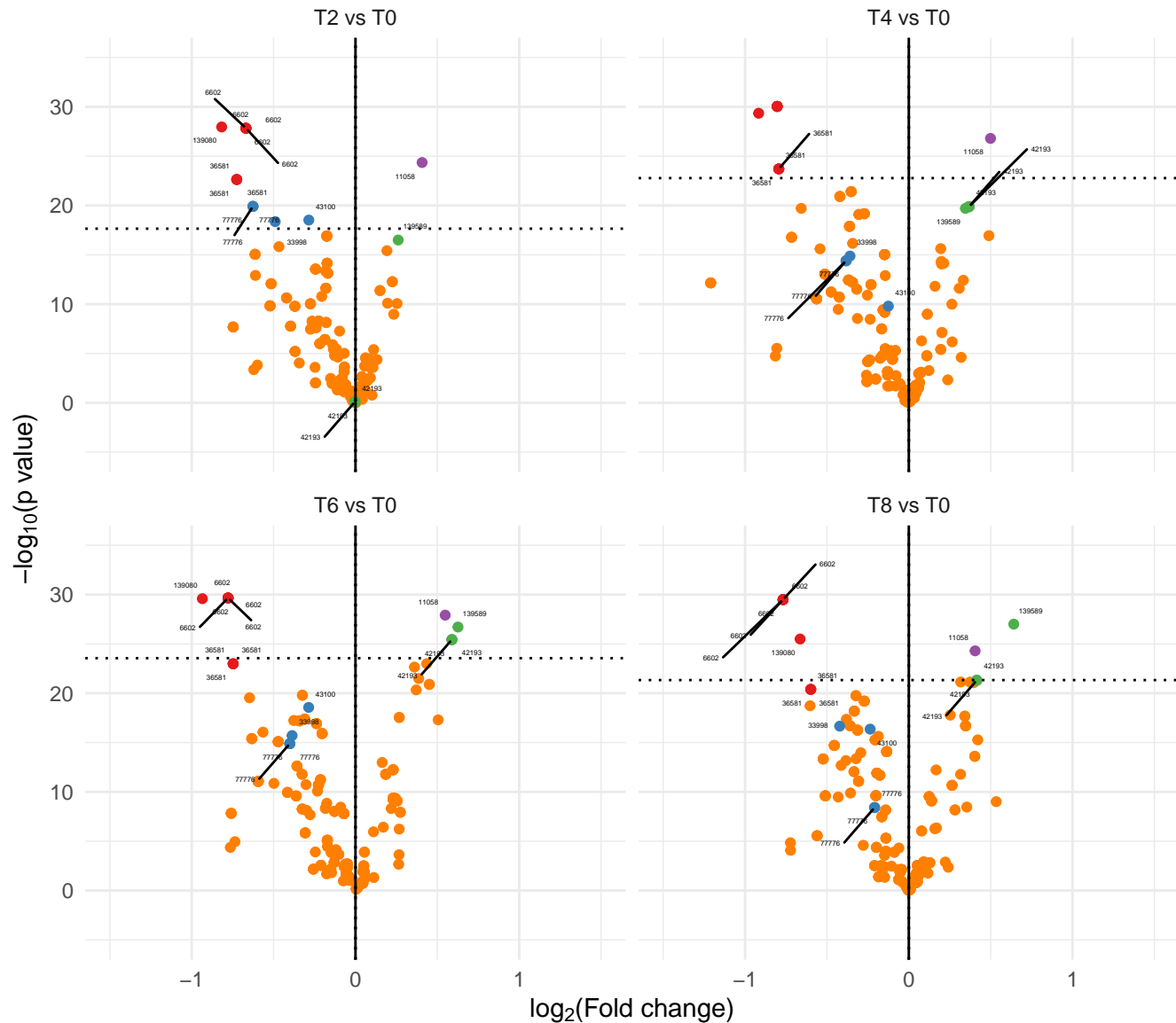
Coenzyme transport and metabolism

Cytoskeleton

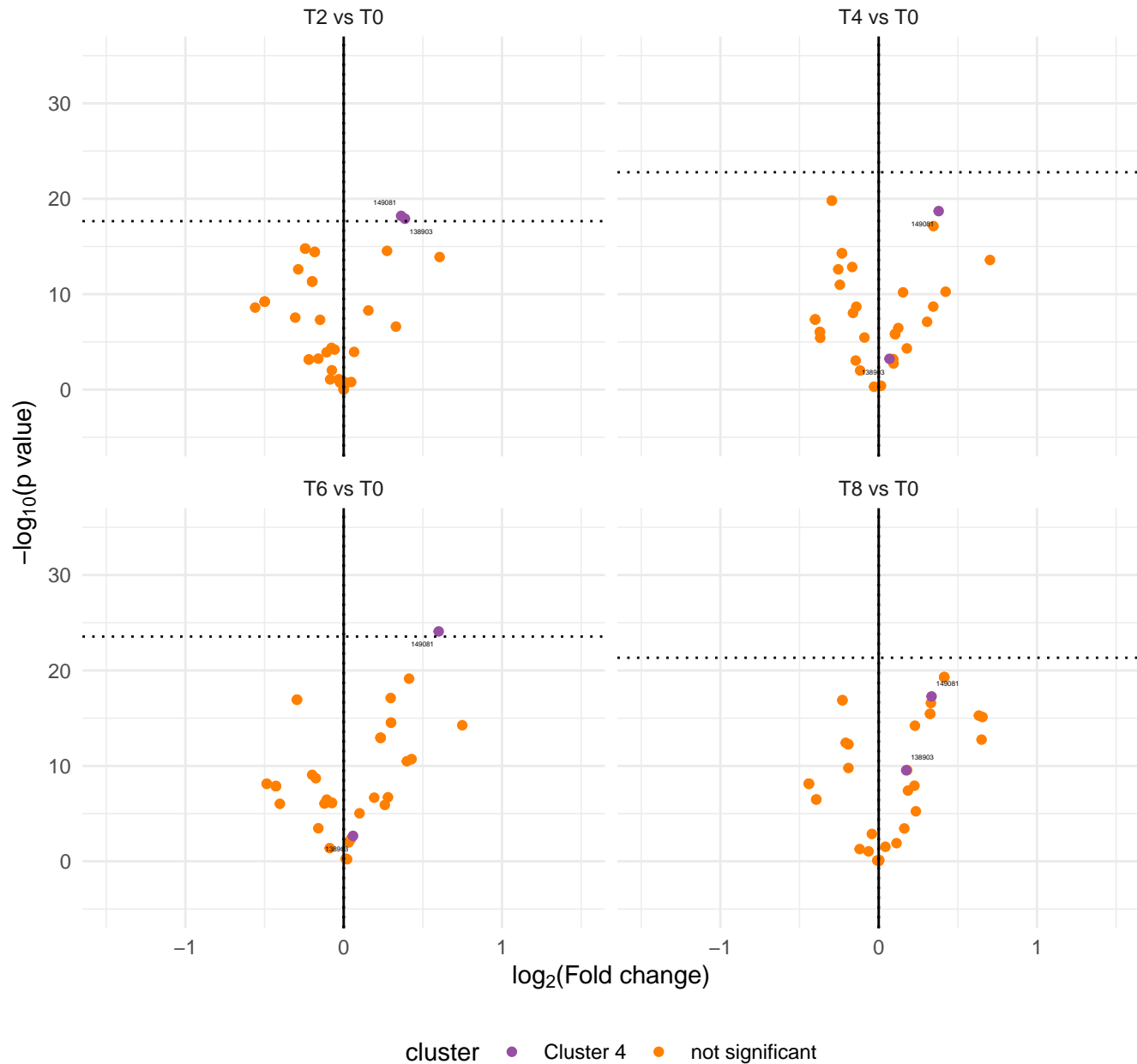Defense mechanisms

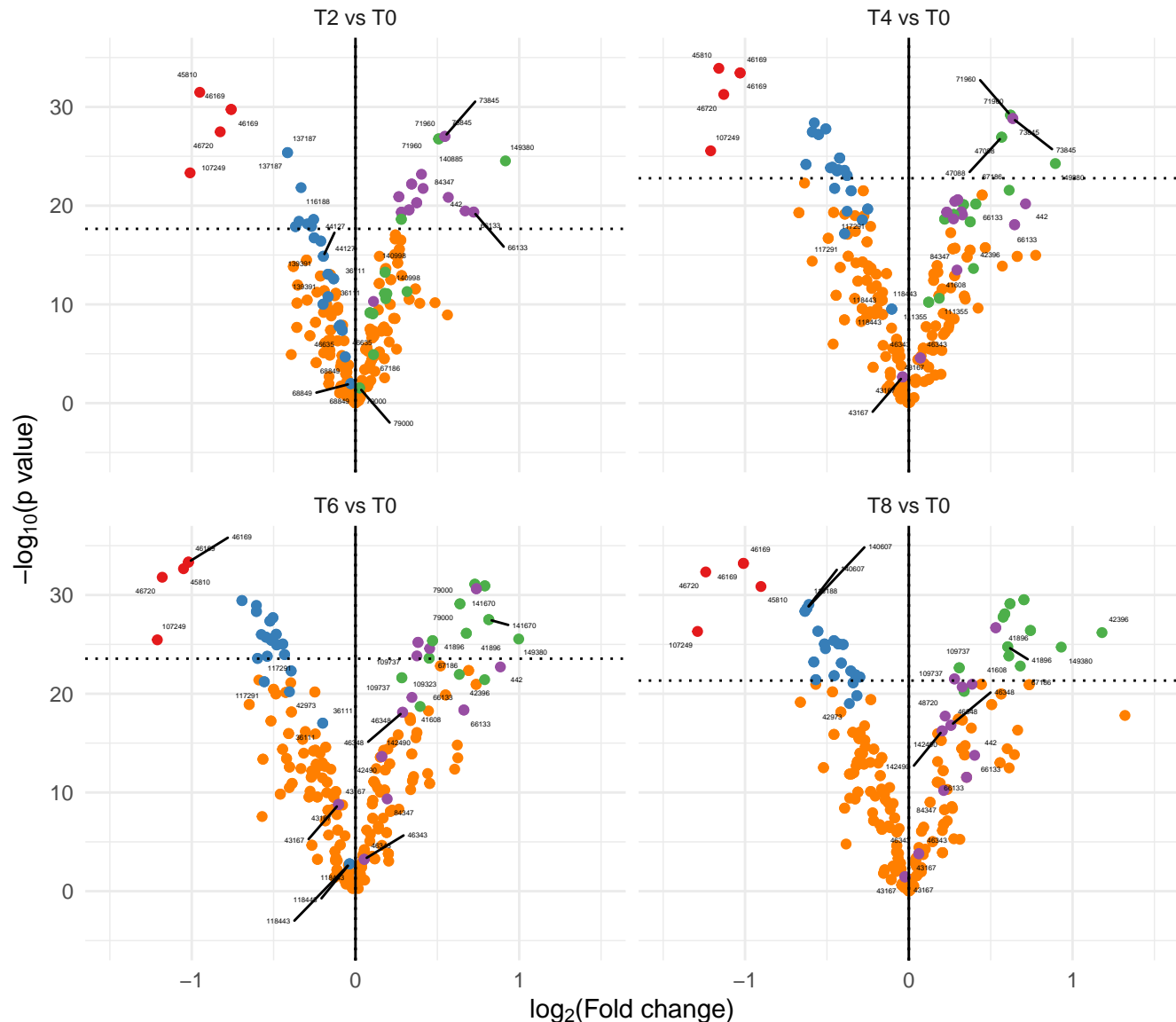Energy production and conversion

Extracellular structures
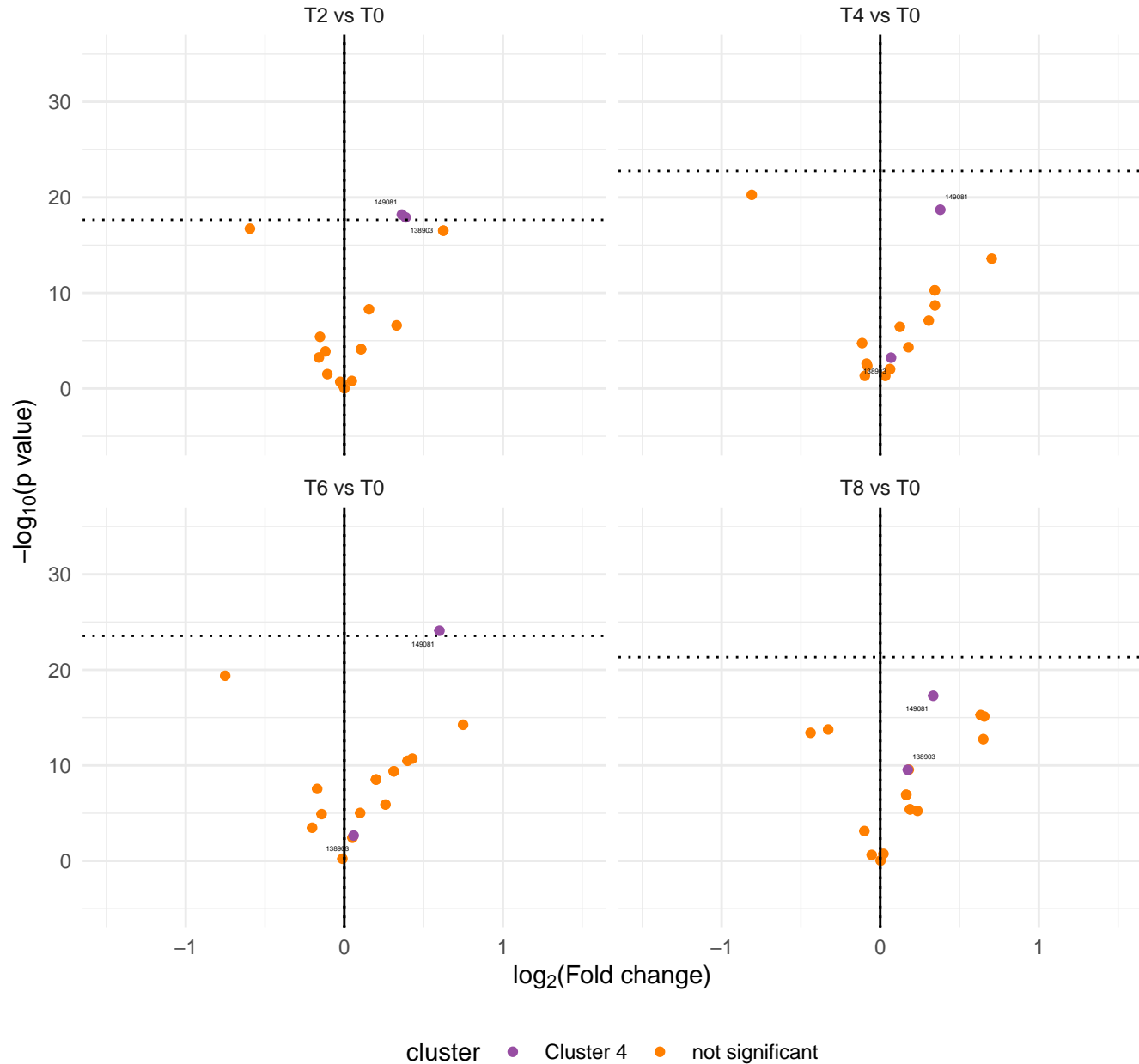
Function unknown
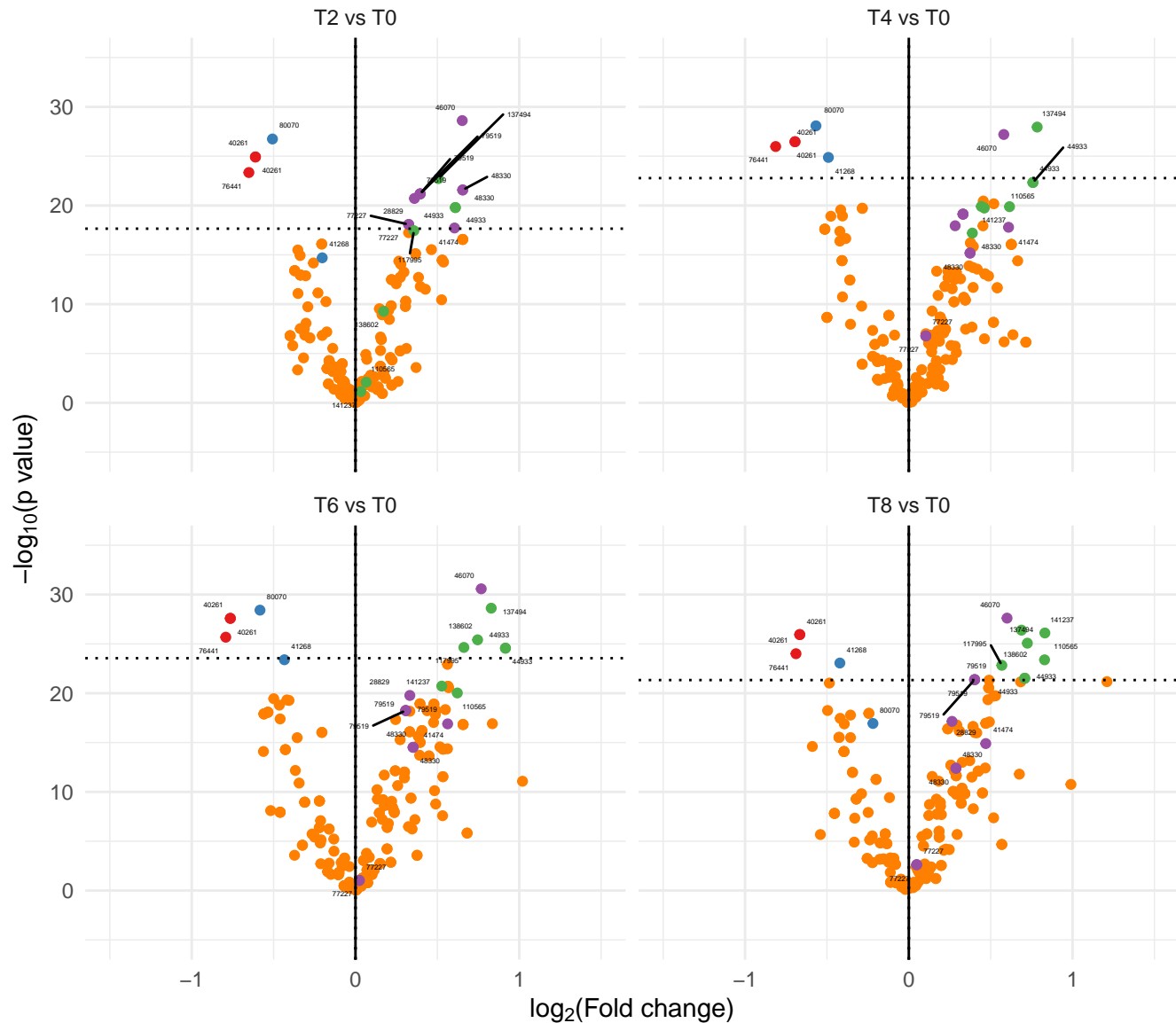
General function prediction only
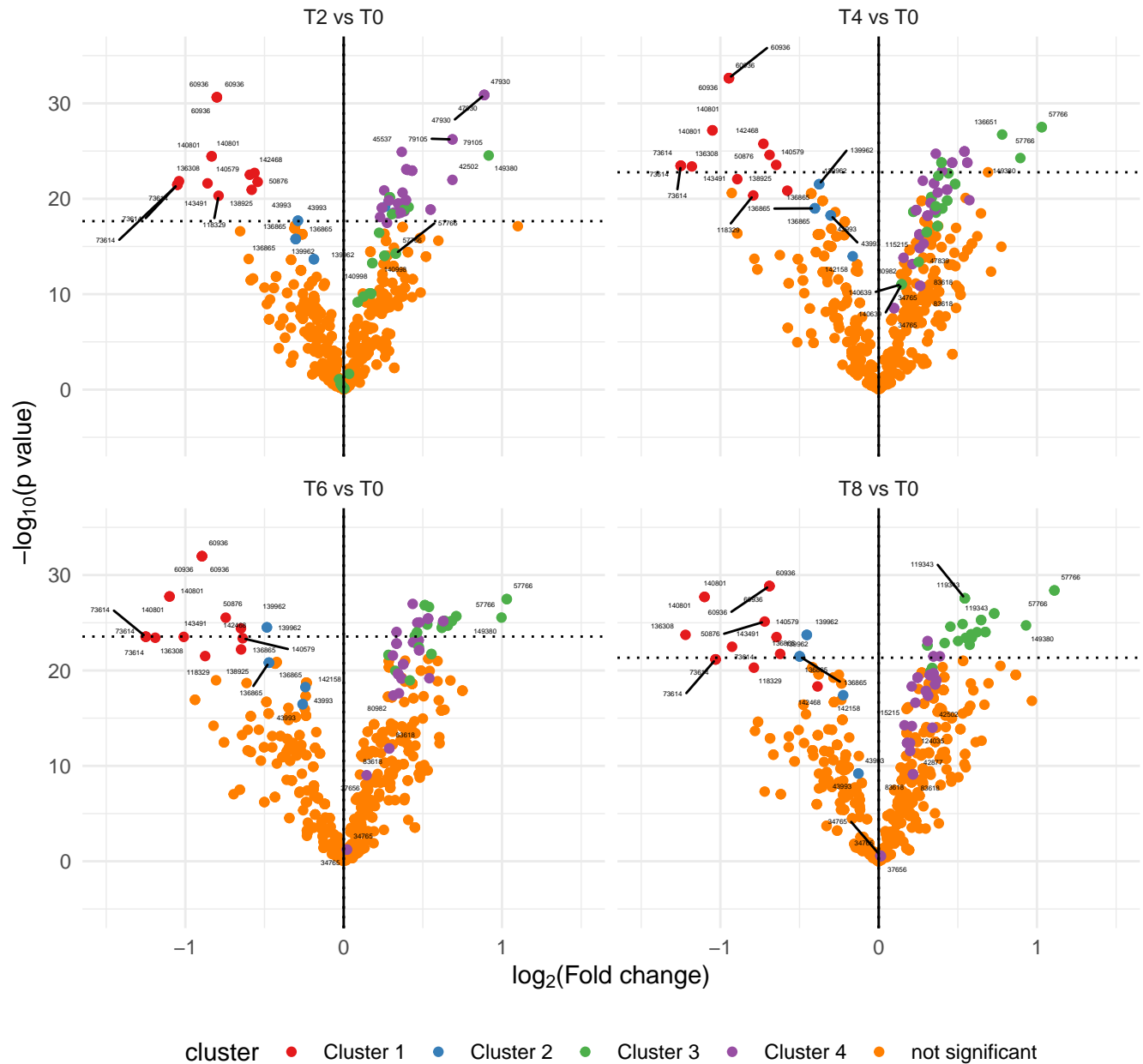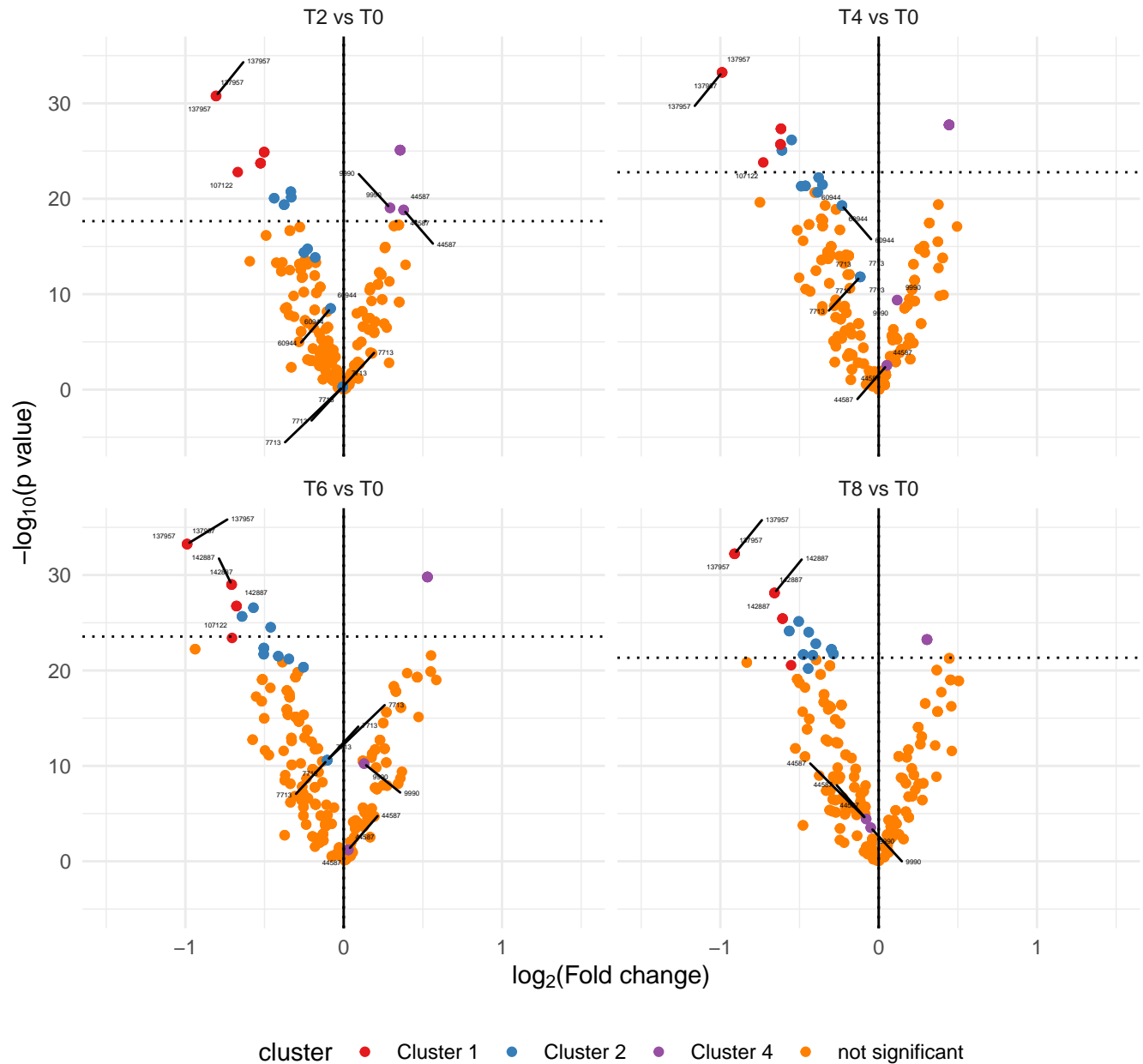
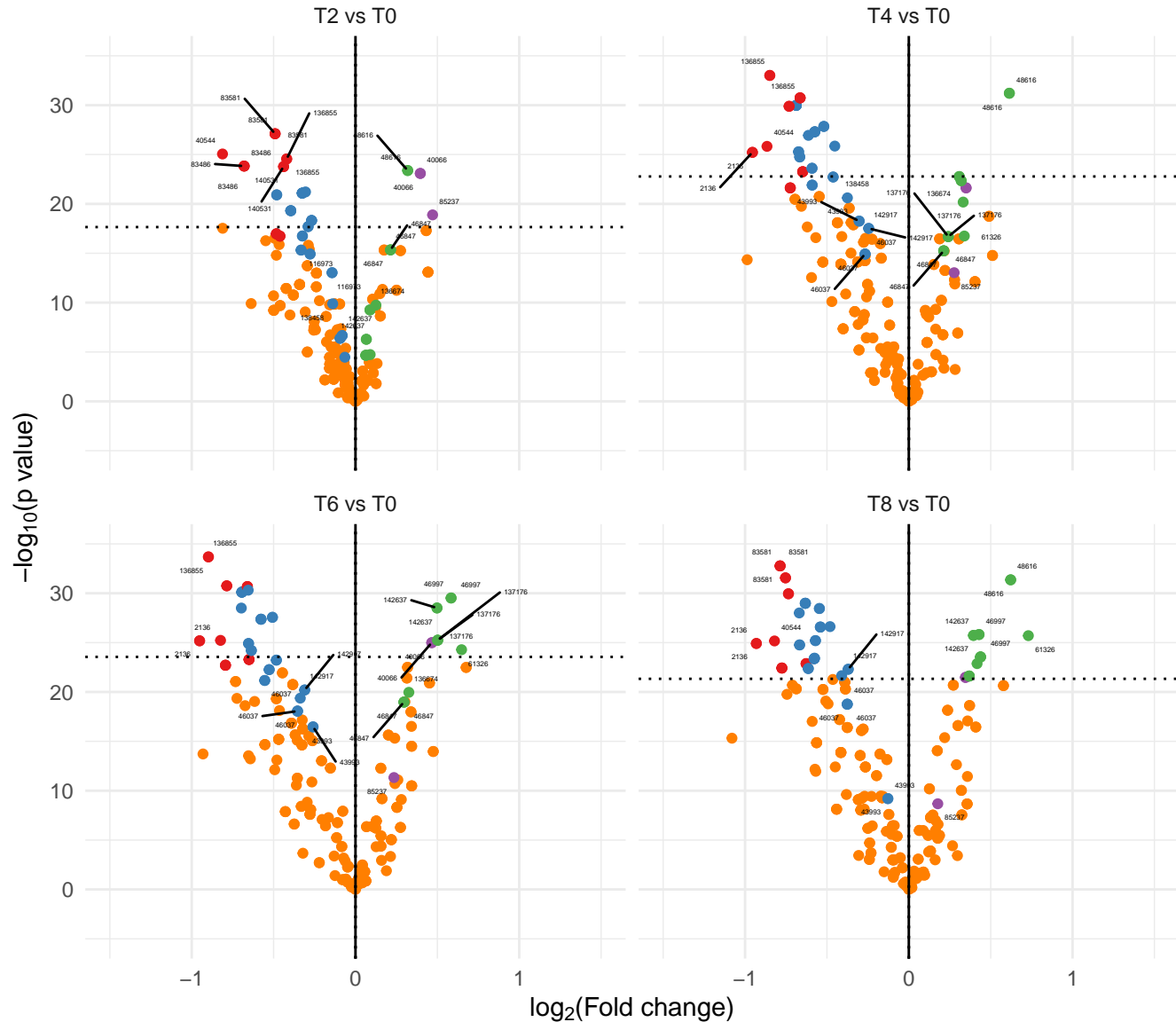Inorganic ion transport and metabolism
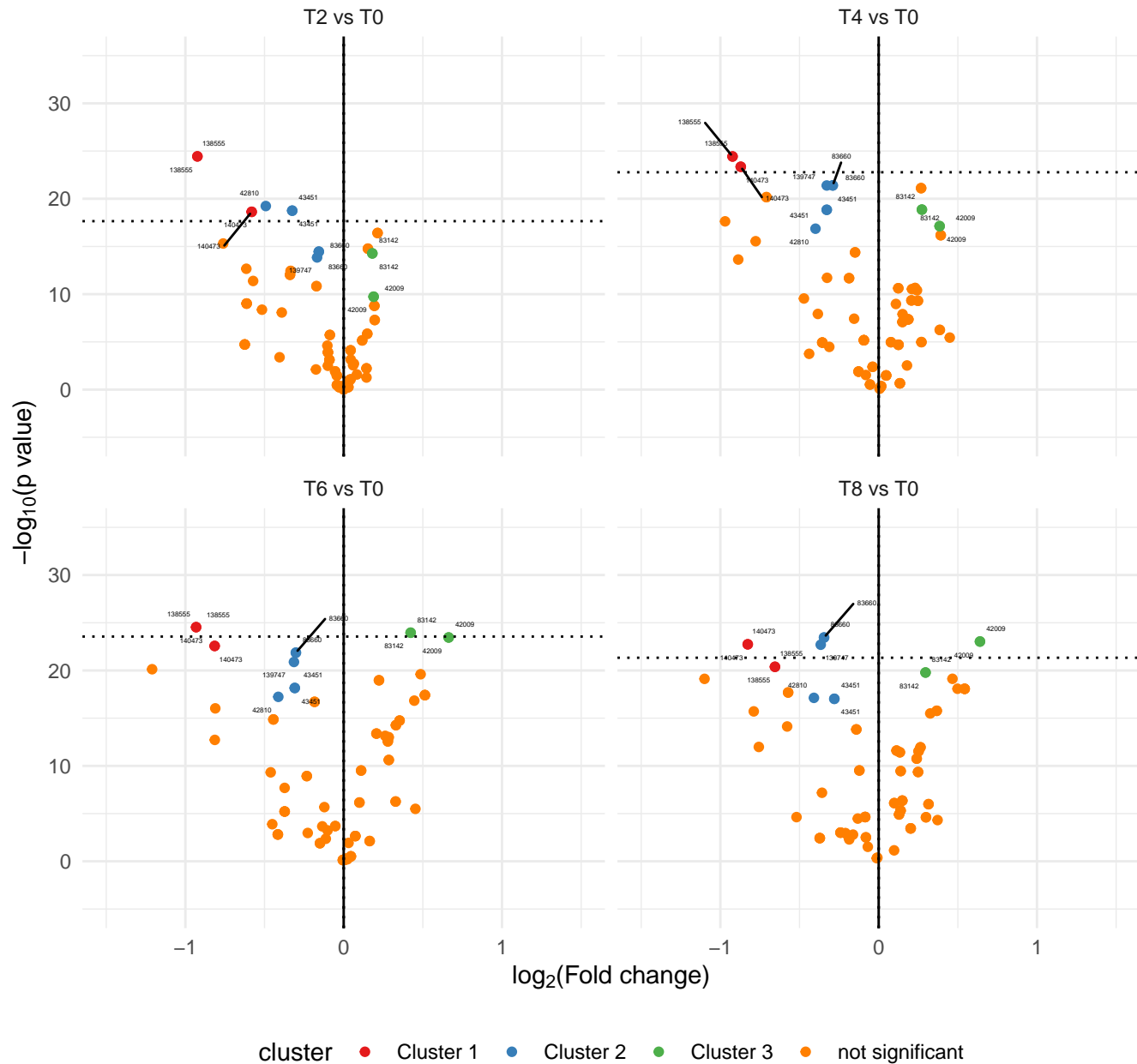
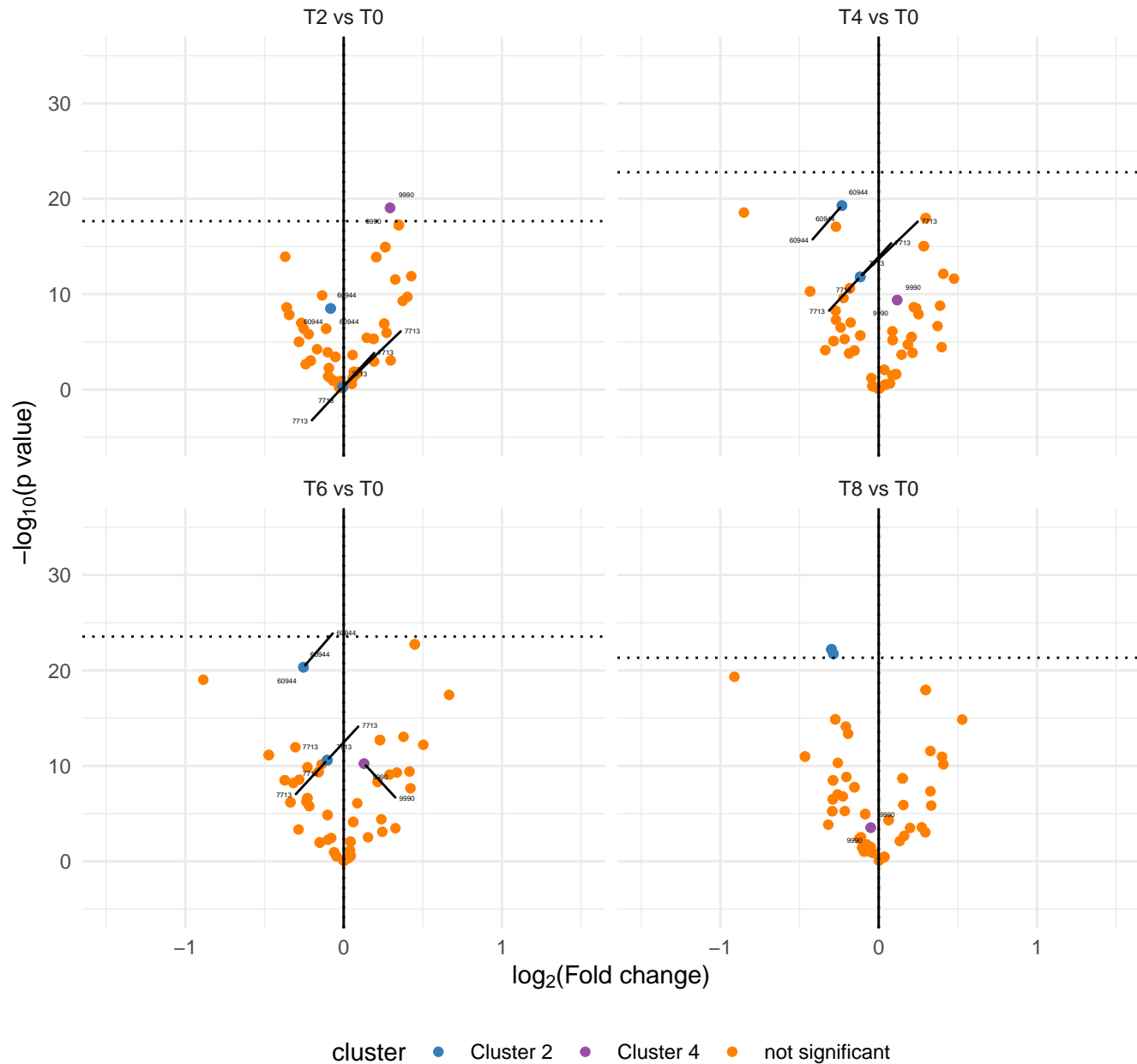Intracellular trafficking, secretion, and vesicular transport
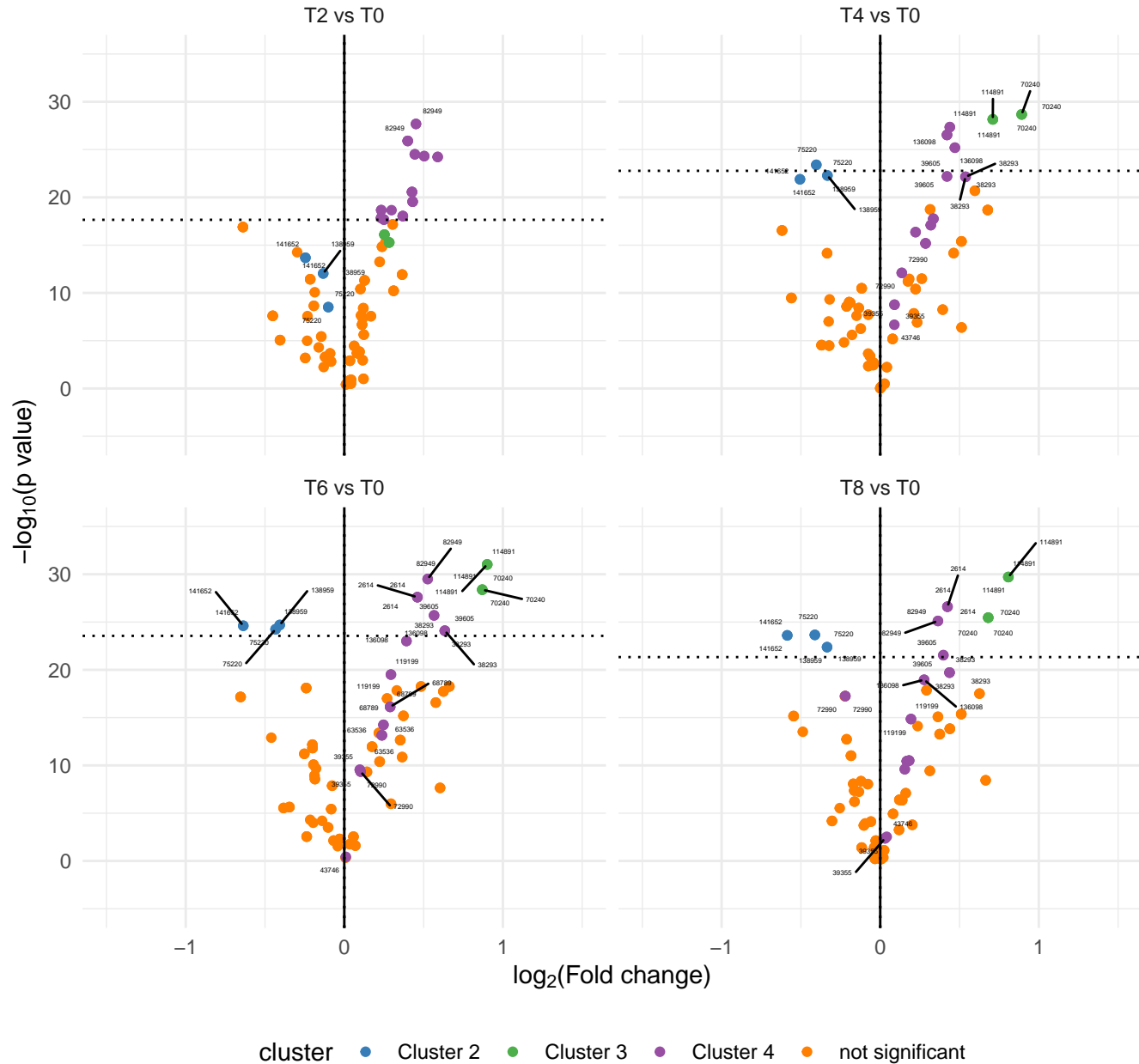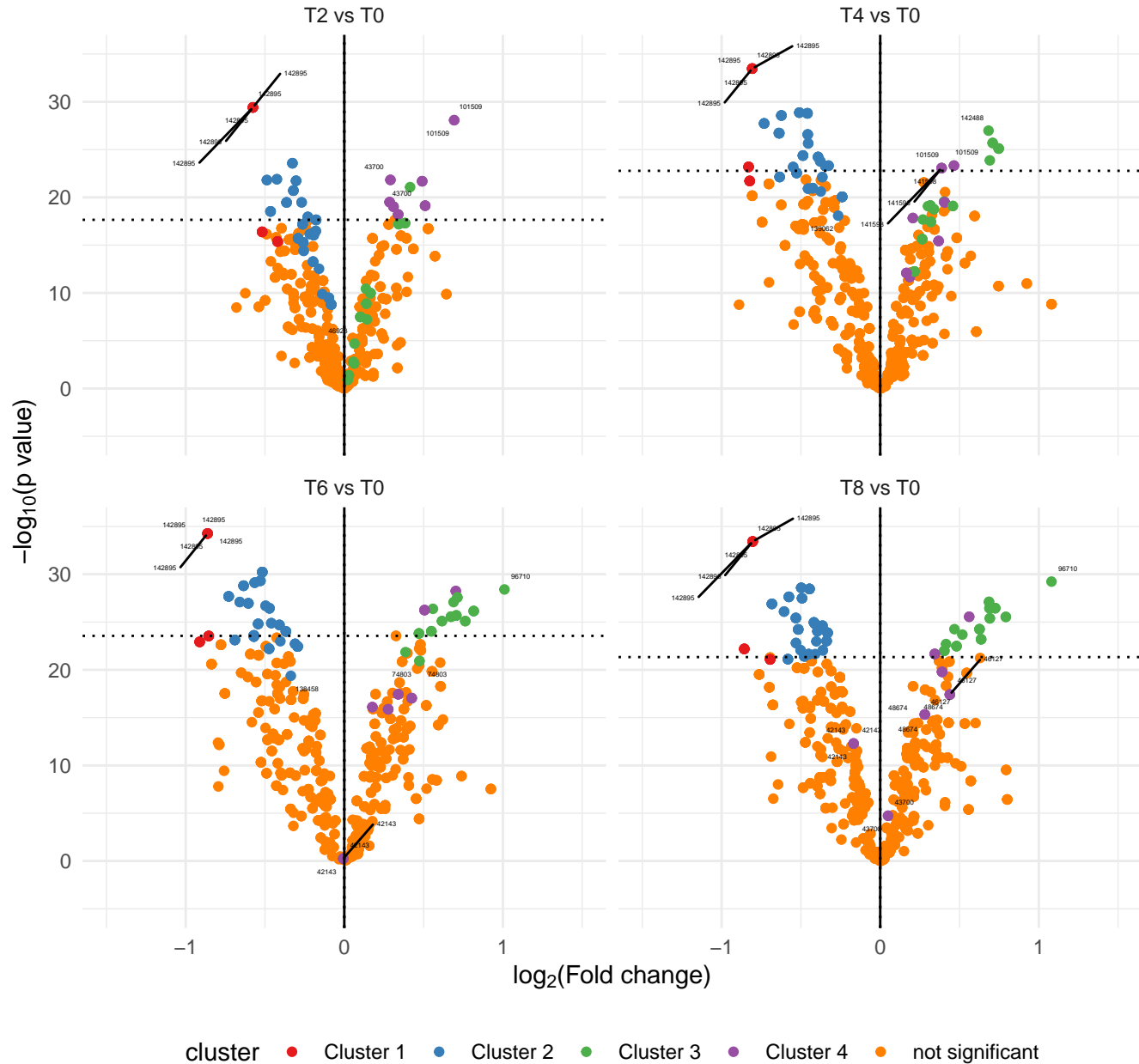
Lipid transport and metabolism
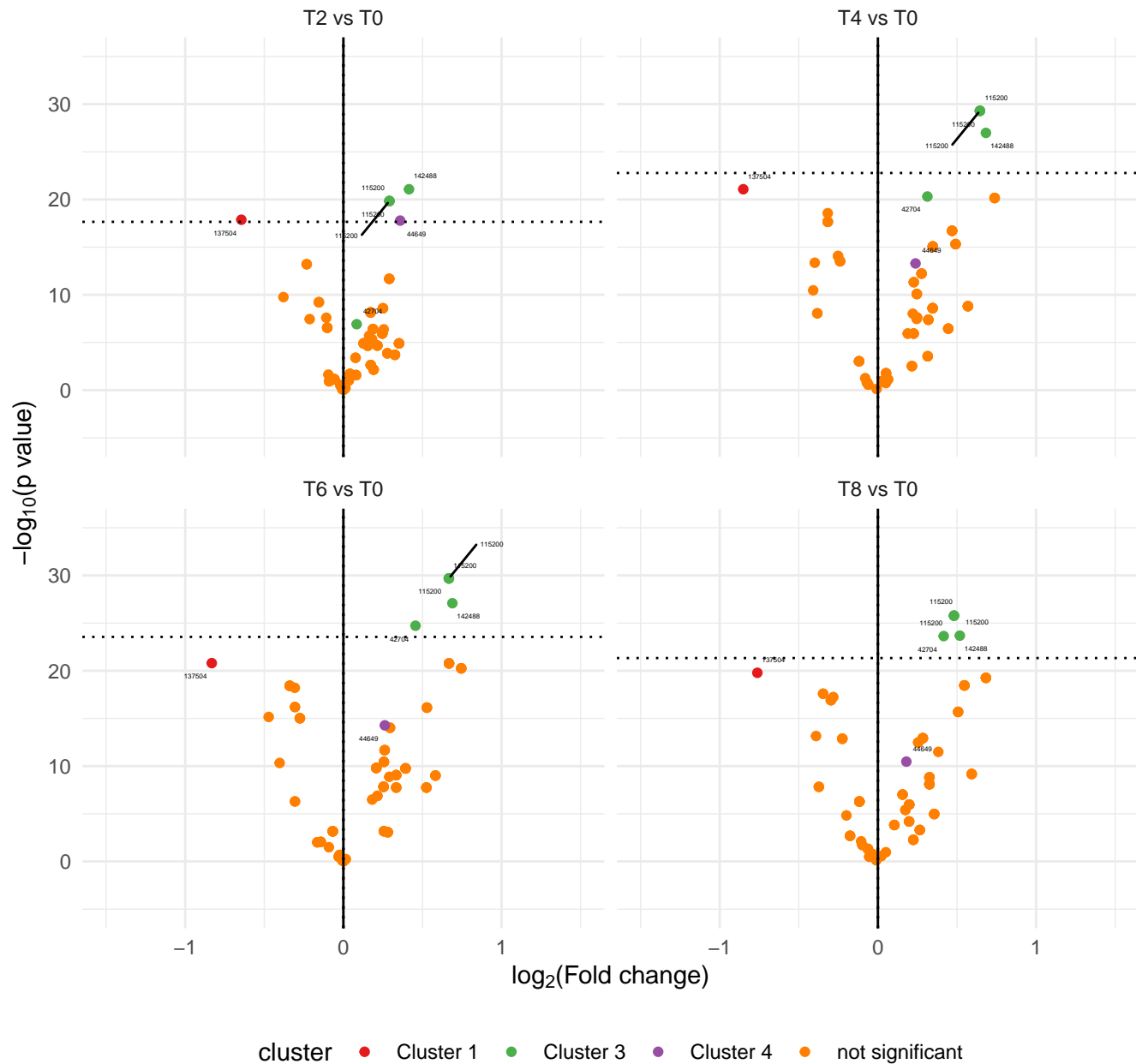
Nuclear structure

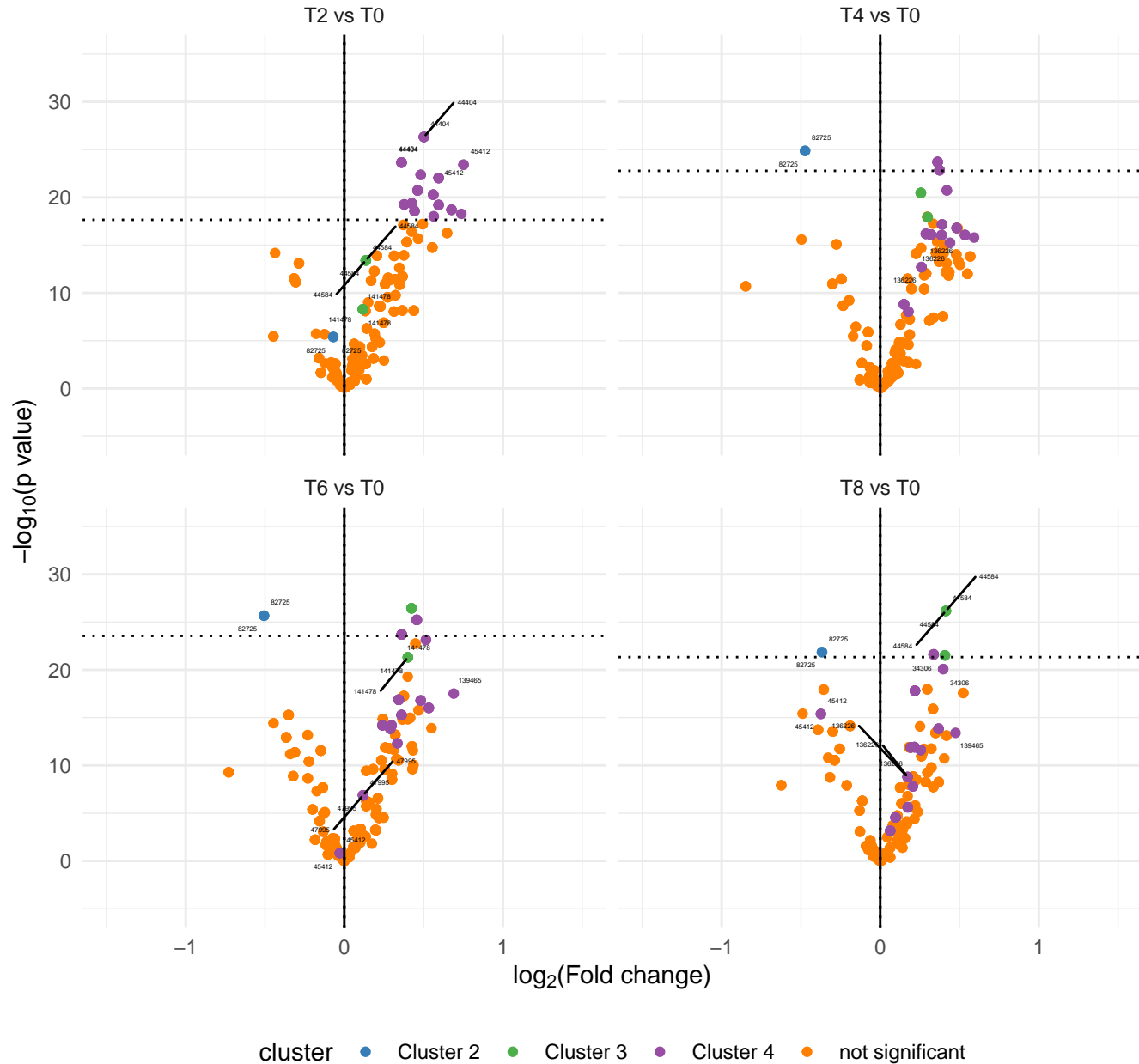**Nucleotide transport and metabolism**

Posttranslational modification, protein turnover, chaperones
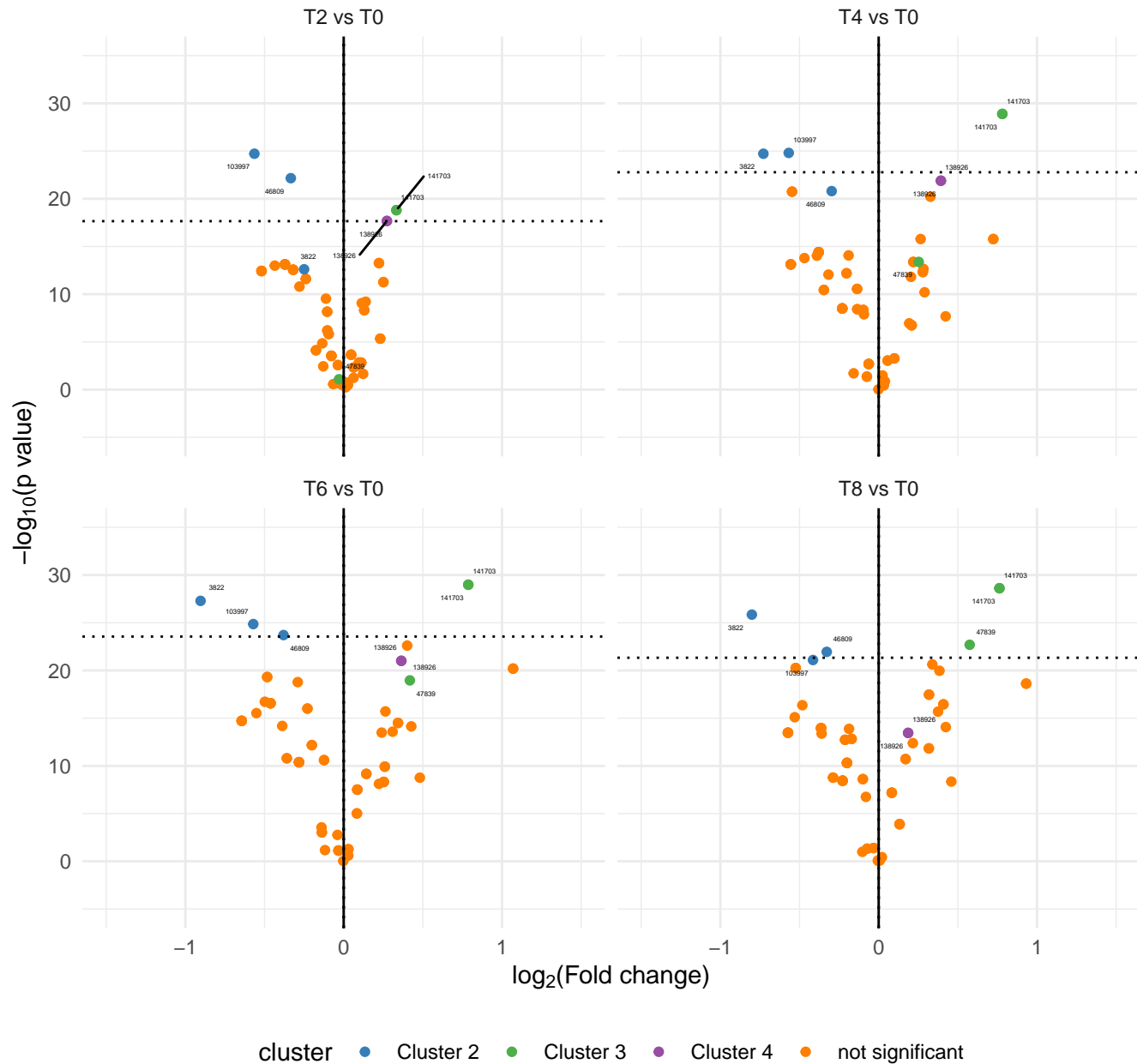
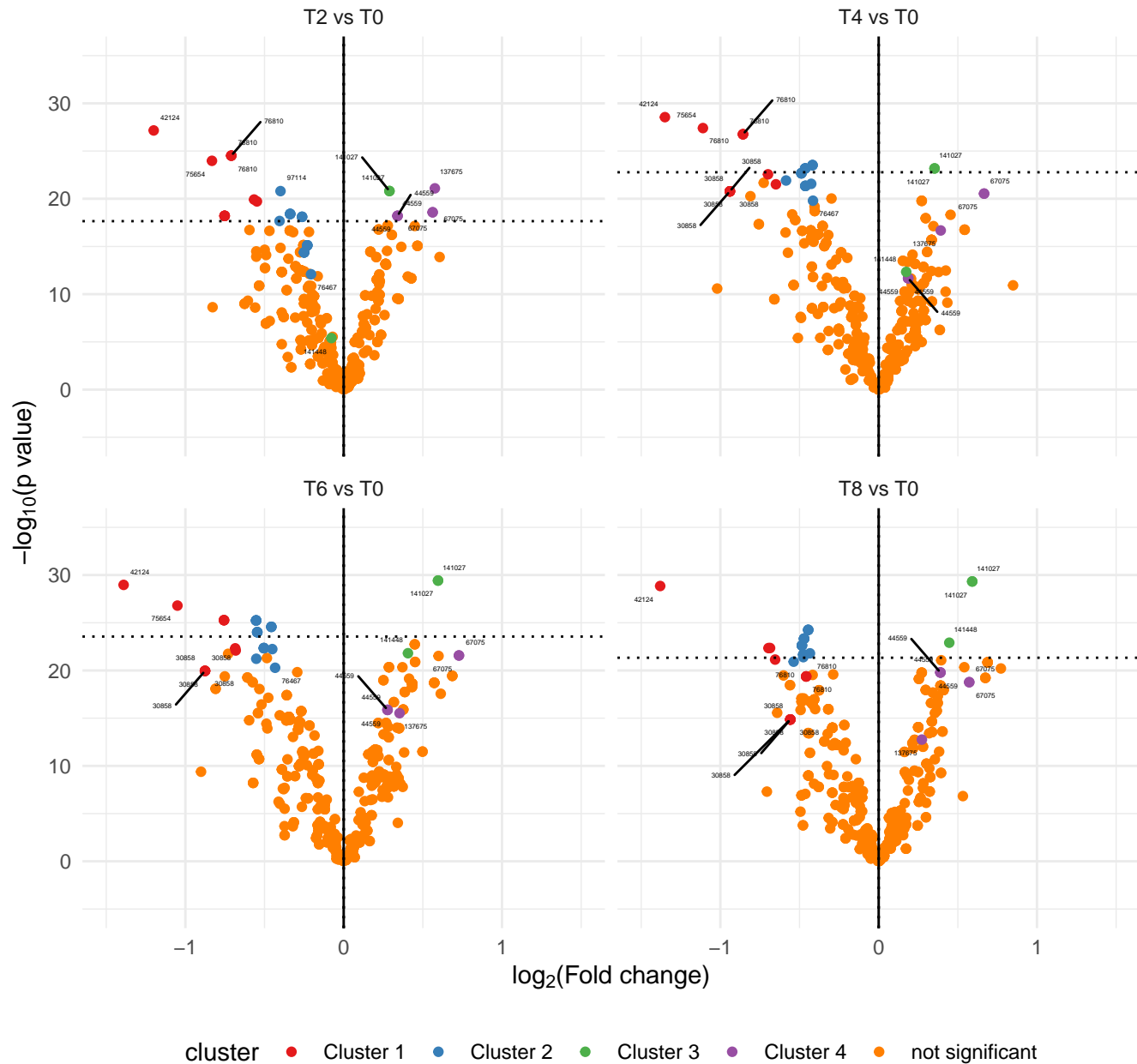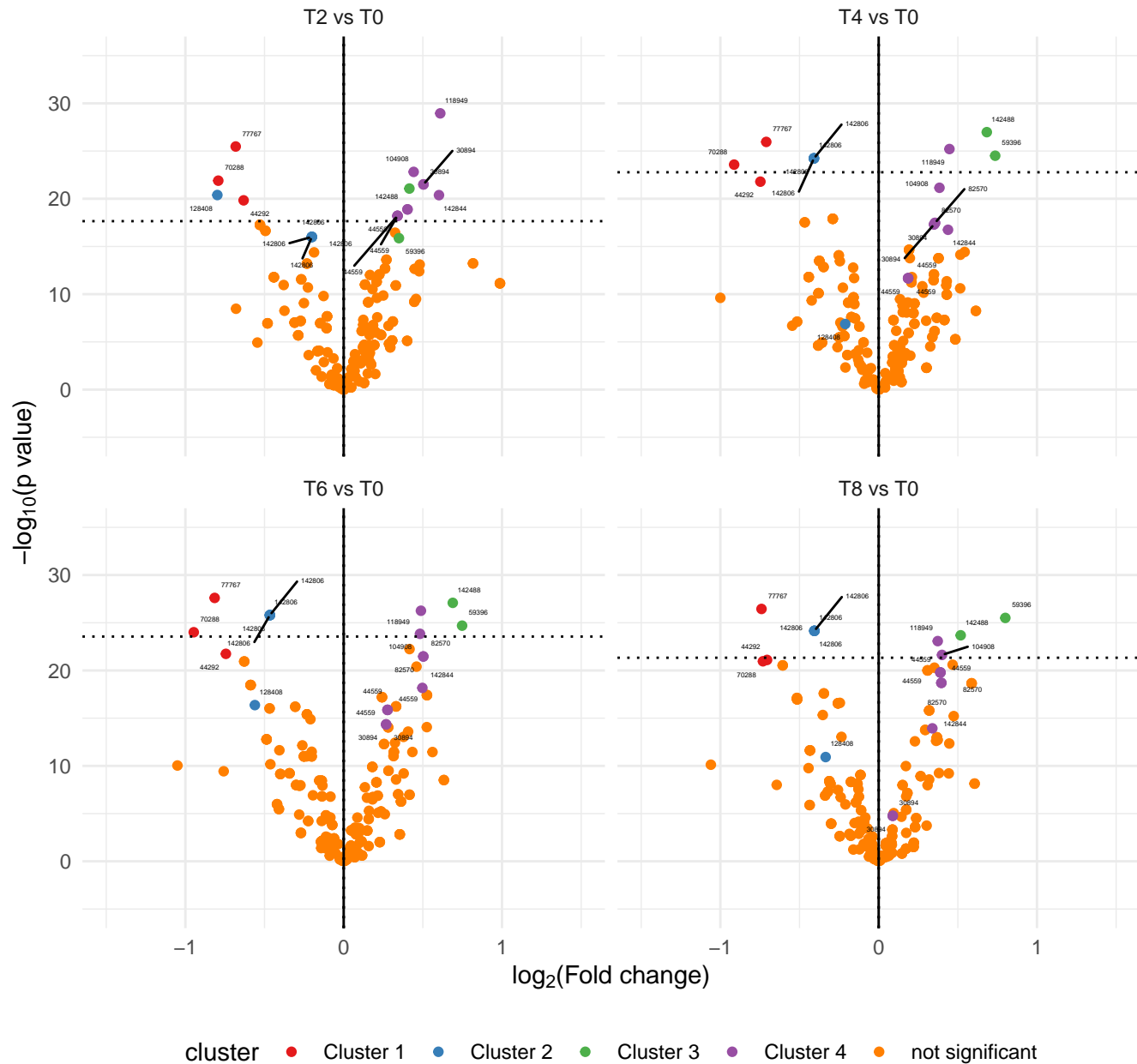Replication, recombination and repair

RNA processing and modification

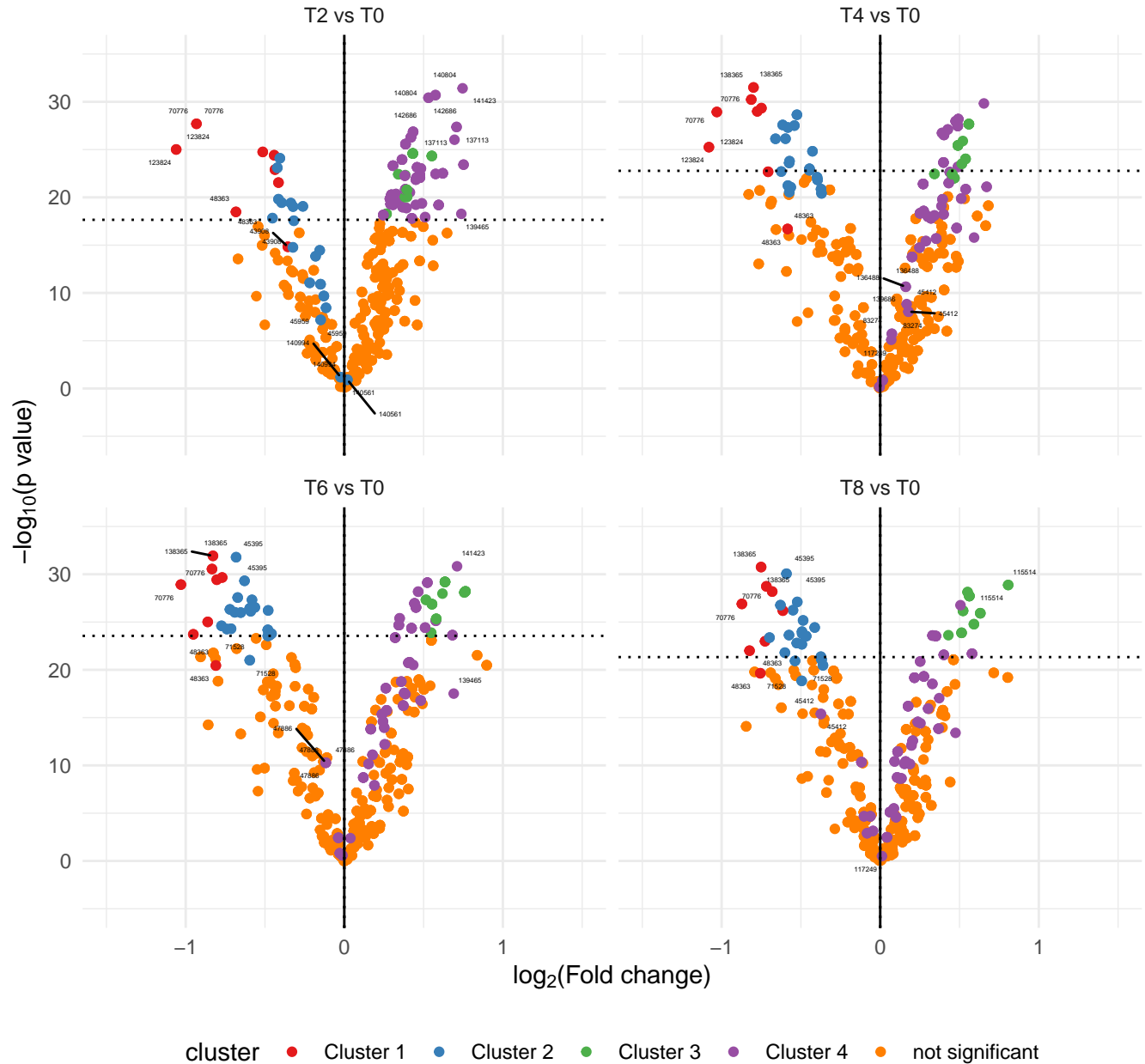Secondary metabolites biosynthesis, transport and catabolism

Signal transduction mechanisms

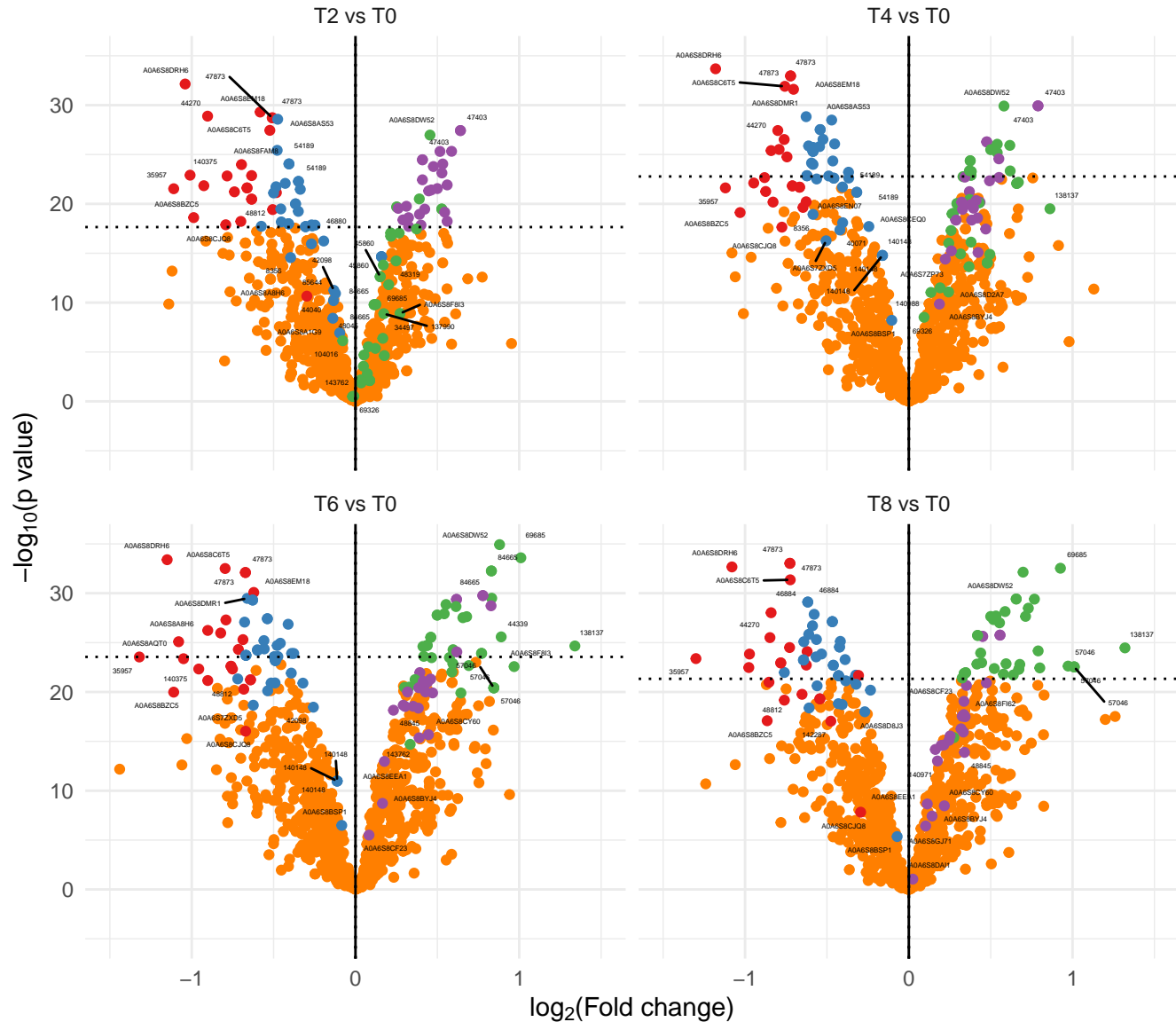Translation, ribosomal structure and biogenesis

Unknown kogClass