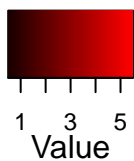
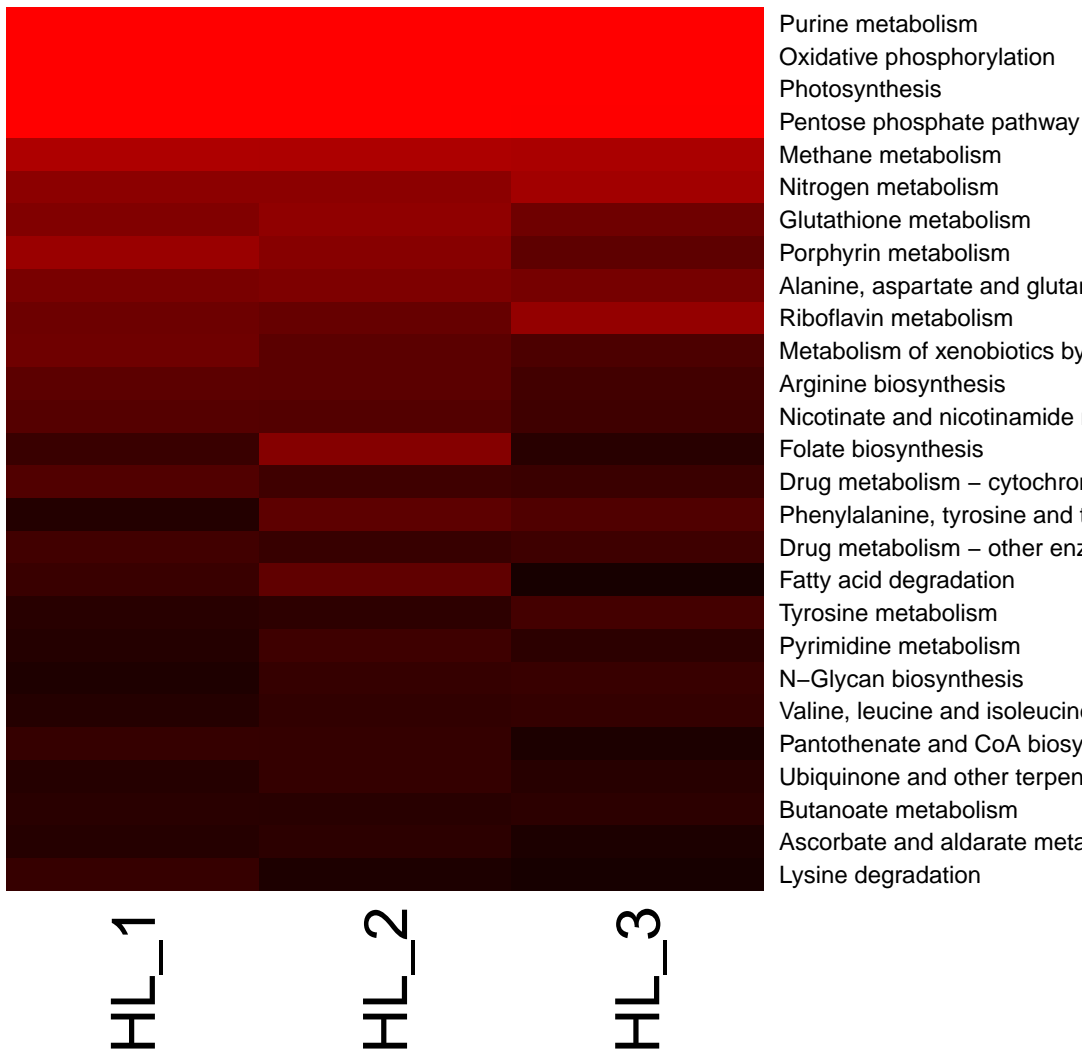


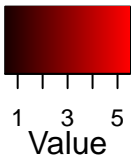
Color Key



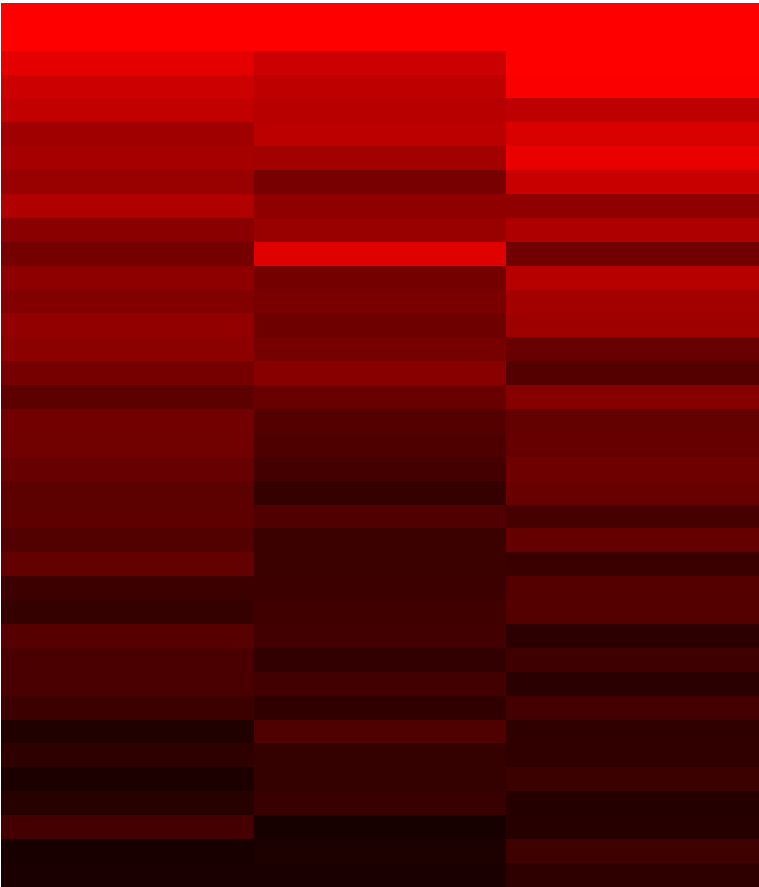
GAGE Up-test: $-\log_{10}(\text{p-value})$



Color Key



GAGE Down-test: $-\log_{10}(\text{p-value})$



HL_1

HL_2

HL_3

- Photosynthesis – antenna protein
- Citrate cycle (TCA cycle)
- Pyruvate metabolism
- Carbon fixation by Calvin cycle
- One carbon pool by folate
- Amino sugar and nucleotide sugar
- Glycolysis / Gluconeogenesis
- Cysteine and methionine metabolism
- Starch and sucrose metabolism
- Glyoxylate and dicarboxylate metabolism
- Glycerolipid metabolism
- Lipoic acid metabolism
- Glycine, serine and threonine metabolism
- Fatty acid biosynthesis
- Thiamine metabolism
- Arginine and proline metabolism
- Glycerophospholipid metabolism
- Other carbon fixation pathways
- Biotin metabolism
- Biosynthesis of unsaturated fatty acids
- Sulfur metabolism
- Glycosylphosphatidylinositol (GPI) anchor metabolism
- Propanoate metabolism
- Sphingolipid metabolism
- Pentose and glucuronate interconversions
- Fructose and mannose metabolism
- Galactose metabolism
- Terpenoid backbone biosynthesis
- Phenylalanine metabolism
- Inositol phosphate metabolism
- Other types of O-glycan biosynthesis
- Carotenoid biosynthesis
- Valine, leucine and isoleucine biosynthesis
- Selenocompound metabolism
- Various types of N-glycan biosynthesis
- beta-Alanine metabolism
- Tryptophan metabolism

Color Key



0.2 0.5
Value

GAGE test statistics



HL_1

HL_2

HL_3

Oxidative phosphorylation
Pentose phosphate pathway
Nitrogen metabolism
Porphyrin metabolism
Riboflavin metabolism
Arginine biosynthesis
Folate biosynthesis
Phenylalanine, tyrosine and tryptophan metabolism
Fatty acid degradation
Pyrimidine metabolism
Valine, leucine and isoleucine degradation
Ubiquinone and other terpenoid metabolism
Ascorbate and aldarate metabolism
Photosynthesis – antenna proteins
Pyruvate metabolism
One carbon pool by folate
Glycolysis / Gluconeogenesis
Starch and sucrose metabolism
Glycerolipid metabolism
Glycine, serine and threonine metabolism
Thiamine metabolism
Glycerophospholipid metabolism
Biotin metabolism
Sulfur metabolism
Propanoate metabolism
Pentose and glucuronate interconversions
Galactose metabolism
Phenylalanine metabolism
Other types of O-glycan biosynthesis
Valine, leucine and isoleucine biosynthesis
Various types of N-glycan biosynthesis
Tryptophan metabolism