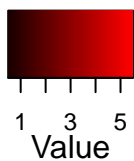
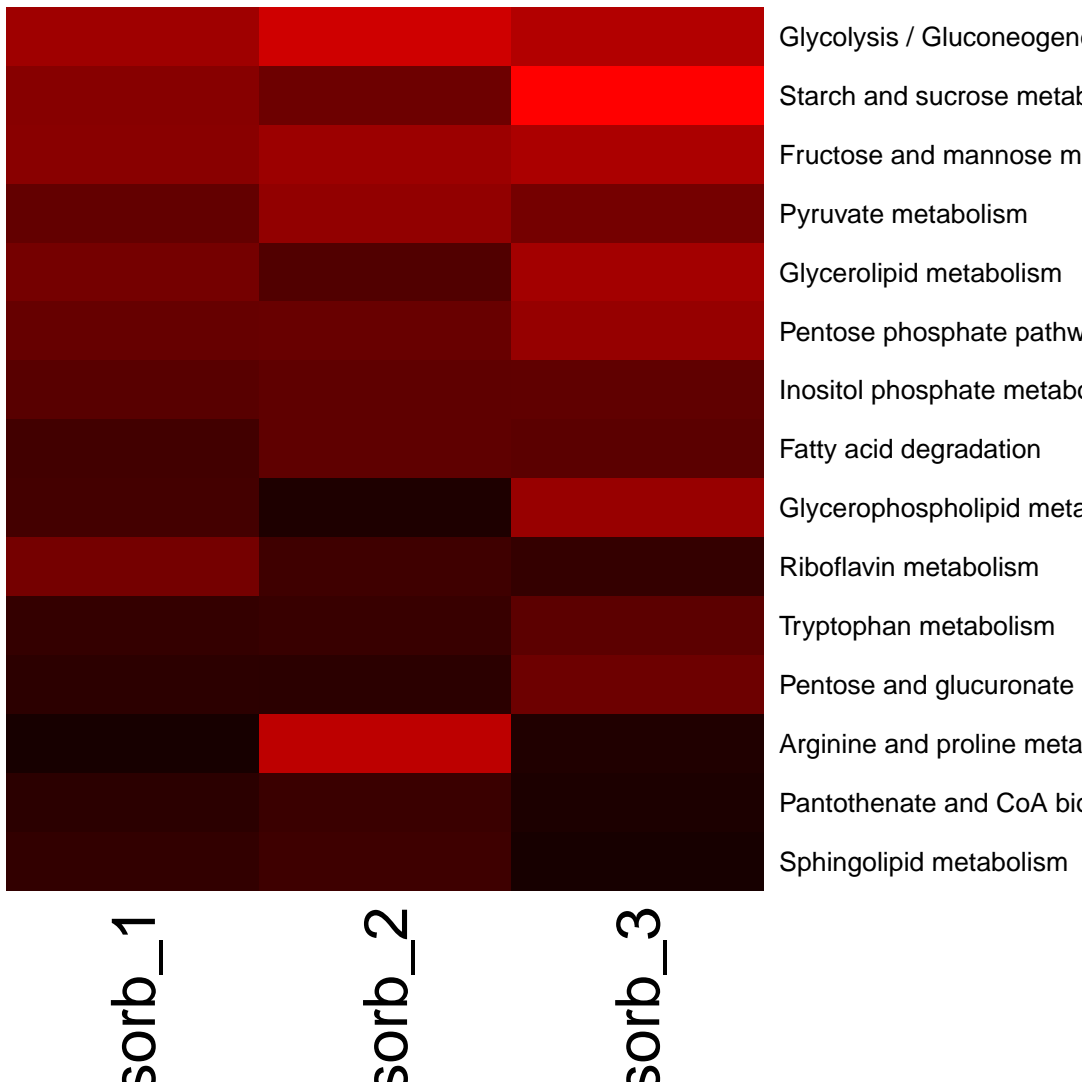


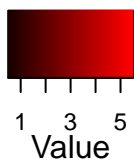
Color Key



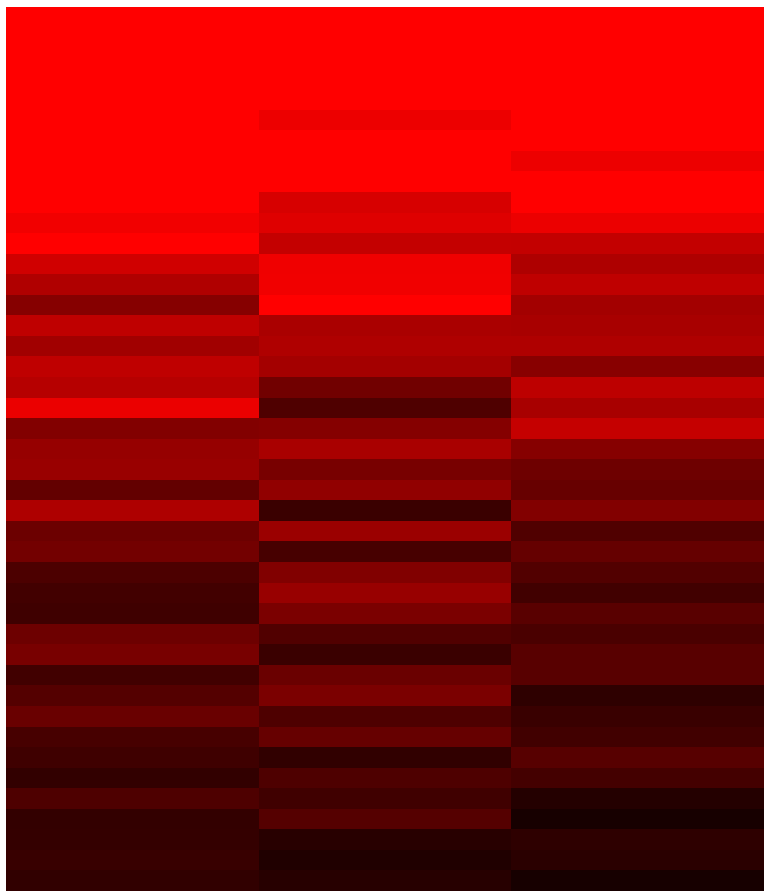
GAGE Up-test: $-\log_{10}(\text{p-value})$



Color Key



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

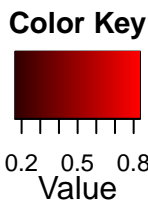


- Photosynthesis – antenna protein
- Oxidative phosphorylation
- Cysteine and methionine metabolism
- Glycine, serine and threonine metabolism
- Glyoxylate and dicarboxylate metabolism
- Photosynthesis
- Fatty acid biosynthesis
- One carbon pool by folate
- Porphyrin metabolism
- Pyrimidine metabolism
- Alanine, aspartate and glutamate metabolism
- Arginine biosynthesis
- Methane metabolism
- Purine metabolism
- Thiamine metabolism
- Citrate cycle (TCA cycle)
- Drug metabolism – other enzymes
- Carbon fixation by Calvin cycle
- Biotin metabolism
- Phenylalanine, tyrosine and tryptophan metabolism
- Other types of O-glycan biosynthesis
- Lipoic acid metabolism
- Terpenoid backbone biosynthesis
- Other carbon fixation pathways
- Sulfur metabolism
- Propanoate metabolism
- Glutathione metabolism
- Glycosylphosphatidylinositol (GPI) anchor metabolism
- Folate biosynthesis
- N-Glycan biosynthesis
- Ubiquinone and other terpenoid metabolism
- Nitrogen metabolism
- Selenocompound metabolism
- Amino sugar and nucleotide sugar metabolism
- Ascorbate and aldarate metabolism
- Various types of N-glycan biosynthesis
- Valine, leucine and isoleucine biosynthesis
- Valine, leucine and isoleucine degradation
- Biosynthesis of unsaturated fatty acids
- Galactose metabolism
- Nicotinate and nicotinamide metabolism
- Carotenoid biosynthesis
- Metabolism of xenobiotics by cytochrome P450

sorb_1

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sorb_3



GAGE test statistics



- Starch and sucrose metabolism
- Pyruvate metabolism
- Pentose phosphate pathway
- Fatty acid degradation
- Riboflavin metabolism
- Pentose and glucuronate interconversions
- Pantothenate and CoA biosynthesis
- Photosynthesis - antenna proteins
- Cysteine and methionine metabolism
- Glyoxylate and dicarboxylate metabolism
- Fatty acid biosynthesis
- Porphyrin metabolism
- Alanine, aspartate and glutamate metabolism
- Methane metabolism
- Thiamine metabolism
- Drug metabolism - other enzymes
- Biotin metabolism
- Other types of O-glycan biosynthesis
- Terpenoid backbone biosynthesis
- Sulfur metabolism
- Glutathione metabolism
- Folate biosynthesis
- Ubiquinone and other terpenoid diphosphate metabolism
- Selenocompound metabolism
- Ascorbate and aldarate metabolism
- Valine, leucine and isoleucine biosynthesis
- Biosynthesis of unsaturated fatty acids
- Nicotinate and nicotinamide metabolism
- Metabolism of xenobiotics by cytochrome P450

sorb_1

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sorb_3