

**Table S4. Downregulated sulfur metabolism genes**

Gene symbol	Gene name
Chst11	Chondroitin 4-sulfotransferase
Gss	Glutathione synthetase
Gstk1	RIKEN cDNA 0610025I19 gene
Idh1	Isocitrate dehydrogenase 1 (NADP+), soluble
Mgst1	Microsomal glutathione S-transferase 1
Papss2	3'-Phosphoadenosine 5'-phosphosulfate synthase 2
Sult1d1	N-sulfotransferase
Sult2b1	Sulfotransferase family, cytosolic, 2B, member 1