

Supplementary Table S3. Correlation of physico-chemical parameters and transcription level of sulfate transporter genes of plants grown in 25 % hoagland media and 0.5 mM sulfate and further treated with different concentrations of H₂S for 6 days

	Biomass production in whole plant	Shoot/root ratio	Sulfate Uptake capacity of plant	DMC content in shoot	Chlorophyll content in shoot	Sulfate content in shoot	Nitrate content in shoot	Thiols content in shoot	Free amino acids	DMC content in root	Sulfate content in root	Nitrate content in root	Thiols content in root	Free amino acids content in root	Sulfate 1;1 Expression	Sulfate 1;2 Expression
Biomass production in whole plant	1															
Shoot/root ratio	0.48537	1														
Sulfate Uptake capacity of plant	0.7787	0.01325	1													
DMC content in shoot	0.808906	0.161	0.97922	1												
Chlorophyll content in shoot	0.41095	0.051504	0.863378	0.76089	1											
Sulfate content in shoot	0.89462	0.04439	0.883242	0.82629	0.720163	1										
Nitrate content in shoot	0.241235	0.468848	0.79641	0.741028	0.93043	0.49403	1									
Thiols content in shoot	0.516285	0.31701	0.74319	0.84533	0.49477	0.40298	0.672388	1								
Free amino acids	0.875662	0.42074	0.4717	0.45611	0.16873	0.79973	0.12443	0.039787	1							
DMC content in root	0.77037	0.530159	0.789093	0.89715	0.417852	0.591549	0.49567	0.9334	0.37815	1						
Sulfate content in root	0.93518	0.199425	0.947204	0.93945	0.703712	0.960489	0.56229	0.63283	0.72289	0.791915	1					
Nitrate content in root	0.87896	0.1855	0.983453	0.97309	0.778886	0.933843	0.67378	0.70151	0.61602	0.811139	0.989366	1				
Thiols content in root	0.83201	0.26120	0.954068	0.99456	0.689479	0.801504	0.68221	0.86948	0.473	0.93633	0.932548	0.959324	1			

root		9							3							
Free amino acids content in root	-0.83997	0.416976	0.887933	-0.96146	0.555733	0.730797	0.57632	0.89727	-0.47348	0.981035	0.891902	0.909118	0.9848	1		
Sultr1;1 Expression	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Sultr1;2 Expression	-0.53512	0.966988	-0.05232	-0.09091	-0.53954	0.125196	0.58392	0.13005	-0.582	0.407795	0.215861	0.107269	0.184177	0.325987	0	1