

Supplementary Table S1. The biosynthesis and degradation of H₂S in animal and plant cells

	Synthetase	Synthetase Substrate	Degrading enzyme	References
Animals	Cystathionine γ -lyase (CSE) Cystathionine β -synthase (CBS) 3- mercaptopyruvate sulfur transferase	L-cysteine L-cysteine and L-homocysteine Thioredoxin (Trx) and dihydrolipoic acid (DHLA)	Sulfide: quinone reductase/ Sulfur dioxygenase/ Thiosulfate: cyanide sulfur- transferase	[17]
Plants	Desulfhydrase L-Cys (L-CD) D-cysteine Desulfhydrase (D-CD) Cyano alanine synthase (CAS) Sulfite reductase (SiR) O-acetylserine- thiol lyases (OAS-TL)	L-cysteine D-cysteine Cyanide Sulfate Cysteine	OAS-TL	[22] [25]