

Supplementary table

Supplementary Table 1. The chickpea cultivars employed to screen sulfur acquisition efficiency

S. No.	Desi chickpea cultivars	Kabuli chickpea cultivars
1	PUSA391	KAK2
2	PUSA547	PUSA1105
3	PUSA1005	PUSA1003
4	PUSA256	PUSA3000
5	BGD112	PUSA3022
6	PUSA362	PUSA1053
7	PUSA5028	PUSA2085
8	BGD72	PUSA5023

Supplementary Table 2. Root morphological parameters of chickpea raised in Hoagland solution containing different concentrations of sulfate (0 mM, 1 mM, 2 mM, and 4mM SO₄²⁻)

	Control	SO ₄ ²⁻ treatment		
	0 mM	1 mM	2 mM	4 mM
Total root length (cm)	597.09±0.91	632.4±0.72	955.47±0.99	463.64±0.68
Total root surface area (cm ²)	96.44±0.51	105.36±0.44	152.99±0.61	85.26±0.12
Mean root diameter (mm)	0.52±0.029	0.53±0.012	0.51±0.24	0.59±0.019
Total root volume (cm ³)	1.25±0.073	1.4±0.033	1.95±0.059	1.25±0.048
Lateral root length (cm)	385.19±0.78	412.97±0.81	642.07±0.85	268.92±0.54

Supplementary Figures



Supplementary Fig. 1. Phenotype of chickpea raised in Hoagland solution containing different concentrations of sulfate (0 mM, 1 mM, 2 mM, and 4 mM SO₄²⁻).



Supplementary Fig. 2. The phenotype of chickpea genotypes grown hydroponically under S-sufficient and S-starvation conditions.