

Saini D, Bapatla R B, Pandey J, Aswani V, Sunil B, Gahir S, Bharath P, Subramanyam R & Raghavendra A S. Modulation by S-nitrosoglutathione (a natural nitric oxide donor) of photosystem in Pisum sativum leaves, as revealed by chlorophyll fluorescence: Light-dependent aggravation of nitric oxide effects. Plant Science Today (Early Access). <https://doi.org/10.14719/pst.2248>

Supplementary Table S1. The actual values of PSII parameters on exposure to GSNO under dark, ML and HL. Data are the averages \pm SE of three independent experiments.

Treatment	Dark	ML	HL
Fv/Fm			
None (Control)	0.7467 \pm 0.0145	0.7033 \pm 0.0120	0.6667 \pm 0.0105
GSNO	0.7033 \pm 0.0115	0.6300 \pm 0.0145	0.6033 \pm 0.0101
ETR (II)			
None (Control)	31.8158 \pm 3.8935	30.6565 \pm 2.0000	30.0792 \pm 1.3610
GSNO	26.1385 \pm 3.6564	27.8463 \pm 1.0000	23.6365 \pm 1.5000
Y (II)			
None (Control)	0.0683 \pm 0.0111	0.0910 \pm 0.0110	0.0899 \pm 0.0112
GSNO	0.062 \pm 0.0800	0.0750 \pm 0.0104	0.0600 \pm 0.0102
Y(NO)			
None (Control)	0.3430 \pm 0.0115	0.3428 \pm 0.0115	0.3426 \pm 0.0115
GSNO	0.3943 \pm 0.0199	0.3933 \pm 0.0197	0.3913 \pm 0.0193
NPQ			
None (Control)	1.6517 \pm 0.0717	1.6617 \pm 0.0717	1.6717 \pm 0.0717
GSNO	1.3587 \pm 0.1117	1.3477 \pm 0.1120	1.3487 \pm 0.1115
Y(NPQ)			
None (Control)	0.5660 \pm 0.01	0.5650 \pm 0.013	0.5680 \pm 0.014
GSNO	0.5310 \pm 0.0186	0.5307 \pm 0.0180	0.5290 \pm 0.0189

Supplementary Table S2. The actual values of PSI parameters on exposure to GSNO under dark, ML and HL. Data are the averages \pm SE of three independent experiments.

Treatment	Dark	ML	HL
Pm			
None (Control)	1.8615 \pm 0.0344	1.7255 \pm 0.0569	1.8965 \pm 0.0682
GSNO	1.8790 \pm 0.0170	1.7220 \pm 0.1198	1.69 \pm 0.0355
ETR(I)			
None (Control)	48.5571 \pm 0.574	54.2341 \pm 0.0924	73.7778 \pm 3.79
GSNO	54.0550 \pm 1.2529	48.8731 \pm 0.5774	66.0148 \pm 1.7321
Y(I)			
None (Control)	11.4355 \pm 0.1328	12.7724 \pm 0.0203	10.750 \pm 0.1302
GSNO	12.7302 \pm 0.2944	10.0000 \pm 0.1443	8.80 \pm 0.1155
Y(NA)			
None (Control)	5.4838 \pm 0.7852	11.5649 \pm 0.7249	9.1118 \pm 0.3290
GSNO	7.8540 \pm 0.4677	6.5647 \pm 0.6353	5.83 \pm 0.4352
Y(ND)			
None (Control)	83.0808 \pm 0.9209	75.6628 \pm 1.0392	72.9635 \pm 1.1691
GSNO	79.4159 \pm 0.1732	81.9255 \pm 0.4503	76.2890 \pm 1.25

Supplementary Table S3. The actual values of superoxide and H₂O₂ on exposure to GSNO under dark, ML and HL. Data are the averages \pm SE of three independent experiments.

Superoxide ($\mu\text{g g}^{-1}$ FW)			
Treatment	Dark	ML	HL
None (Control)	51 \pm 4.09	227 \pm 6.92	304 \pm 8.66
GSNO	70 \pm 3.17	351 \pm 13.01	725 \pm 14.43
GSNO+cPTIO	58 \pm 2.02	270 \pm 5.77	560 \pm 11.54
cPTIO	62 \pm 2.90	247 \pm 7.0	326 \pm 8.81

H ₂ O ₂ ($\mu\text{mol g}^{-1}$ FW)			
Treatment	Dark	ML	HL
None (Control)	122 \pm 4.35	140 \pm 4.9	160 \pm 6.1
GSNO	153 \pm 6.42	170 \pm 4.33	260 \pm 5.77
GSNO+cPTIO	142 \pm 5.04	138 \pm 5.48	136 \pm 7.37
cPTIO	134 \pm 3.21	149 \pm 2.60	179 \pm 5.9

Supplementary Figure



Figure S1. The leaf discs of pea (*Pisum sativum*) in 4.2 cm diameter (10 ml) Petri dish.