
Supplementary data



Figure S1: LP.Box system used for pulsed light exposure of tomato plants. A) Initial configuration of the LP.Box showing a tomato plant during light exposure. B) LP.Box mounted on an adjustable support to maintain a constant distance between the upper part of the plant and the light source during growth.

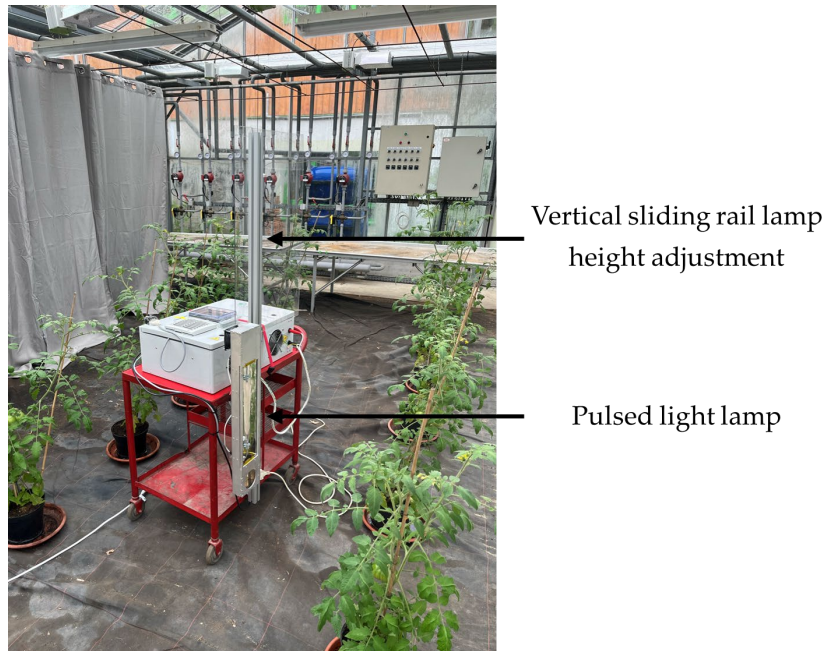


Figure S2: Mobile LP.Box prototype for pulsed light treatment

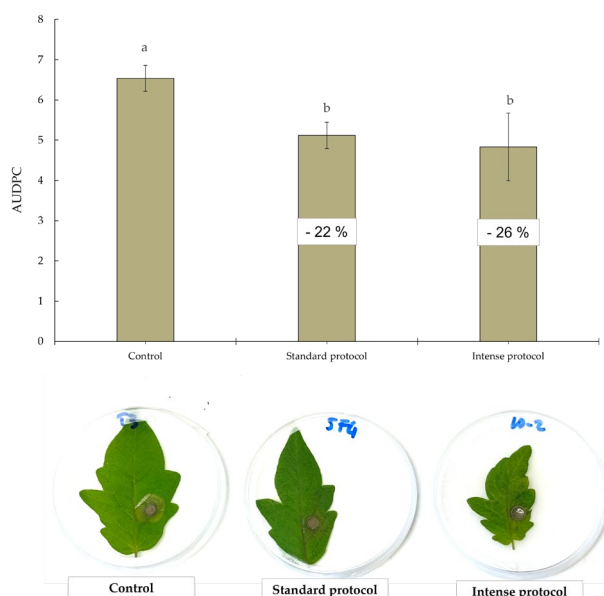


Figure S3: Comparison of AUDPC values and visual symptoms of *Botrytis cinerea* lesions on detached tomato leaves at 6 days post-inoculation, following pulsed light pretreatment (n = 8; mean \pm SD; One-way ANOVA)

Table S1: Evolution of OJIP parameters during and after pulsed light treatment in tomato leaves (mean \pm SE; n = 12; ANOVA/Kruskal-Wallis tests). Different letters indicate statistically distinct groups (p < 0.05) comparing only the “control”, “standard protocol” and “intense protocol” treatments at the same time point. Differences across time points are not shown.

Indices	Day 5			Day 12		
	Control	Standard protocol	Intense protocol	Control	Standard protocol	Intense protocol
F0	7191 \pm 541 b	7402 \pm 663 b	8960 \pm 1680 a	6738 \pm 1336 b	6568 \pm 741 b	9003 \pm 3204 a
Fm	44678 \pm 3232 a	45029 \pm 2684 a	38308 \pm 771 b	40981 \pm 4441 a	37882 \pm 3497 b	36485 \pm 3608 b
Fv	38322 \pm 1849 a	37379 \pm 2383 a	29144 \pm 8601 b	34243 \pm 3698 a	31315 \pm 2895 b	27483 \pm 5697 c
Fv/Fm	0.84 \pm 0.02 a	0.84 \pm 0.01 a	0.74 \pm 0.10 b	0.84 \pm 0.01 a	0.83 \pm 0.01 a	0.75 \pm 0.11 b
Vj	0.33 \pm 0.02 b	0.34 \pm 0.02 b	0.66 \pm 0.04 a	0.32 \pm 0.02 a	0.34 \pm 0.03 a	0.35 \pm 0.03 a
Vi	0.65 \pm 0.03 a	0.68 \pm 0.03 a	0.66 \pm 0.04 a	0.69 \pm 0.05 a	0.67 \pm 0.05 a	0.67 \pm 0.04 a
Mo	0.44 \pm 0.04 b	0.45 \pm 0.04 b	0.56 \pm 0.08 a	0.39 \pm 0.03 b	0.44 \pm 0.06 a	0.50 \pm 0.16 a
Sm	1030 \pm 636 ab	835 \pm 603 b	1265 \pm 661 a	666 \pm 433 b	975 \pm 666 b	1416 \pm 510 a
Ss	0.74 \pm 0.04 b	0.78 \pm 0.03 a	0.65 \pm 0.06 c	0.84 \pm 0.03 a	0.80 \pm 0.05 b	0.67 \pm 0.12 c
N	1476 \pm 1084 ab	1108 \pm 808 b	2027 \pm 1201 a	970 \pm 691 b	1315 \pm 1051 b	2340 \pm 1183 a
Ψ_o	0.67 \pm 0.02 a	0.66 \pm 0.02 b	0.64 \pm 0.02 c	0.68 \pm 0.02 a	0.66 \pm 0.03 a	0.65 \pm 0.03 a
ϕEo	0.56 \pm 0.02 a	0.55 \pm 0.02 a	0.48 \pm 0.07 b	0.57 \pm 0.02 a	0.54 \pm 0.03 b	0.49 \pm 0.09 b
ϕDo	0.16 \pm 0.008 b	0.162 \pm 0.009 b	0.256 \pm 0.096 a	0.159 \pm 0.009 c	0.173 \pm 0.011 b	0.253 \pm 0.106 a
PIABS	6.73 \pm 0.56 a	6.34 \pm 1.04 a	3.03 \pm 1.99 b	7.49 \pm 1.57 a	5.92 \pm 1.46 b	3.97 \pm 2.45 c
ABS/RC	1.60 \pm 0.06 b	1.53 \pm 0.06 c	2.16 \pm 0.49 a	1.42 \pm 0.05 c	1.52 \pm 0.12 b	2.16 \pm 0.73 a
Tro/RC	1.34 \pm 0.05 b	1.29 \pm 0.04 c	1.56 \pm 0.15 a	1.19 \pm 0.04 c	1.26 \pm 0.09 b	1.59 \pm 0.28 a
Eto/RC	0.9 \pm 0.05 b	0.85 \pm 0.03 c	1.03 \pm 0.1 a	0.8 \pm 0.03 b	0.8 \pm 0.04 b	0.98 \pm 0.12 a
Dio/RC	0.25 \pm 0.01 b	0.25 \pm 0.02 b	0.60 \pm 0.36 a	0.23 \pm 0.02 c	0.27 \pm 0.04 b	0.56 \pm 0.4 a