

Supplementary Materials: Impact of *Pseudomonas* sp. SVB-B33 on Stress- and Cell Wall-Related Genes in Roots and Leaves of Hemp under Salinity

Roberto Berni, Jean-Francois Hausman, Silas Villas-Boas * and Gea Guerriero *



Figure S1. Images of roots from plants grown under control/salt stress conditions in the absence/presence of living or dead bacteria. The scale bar is 5 cm.

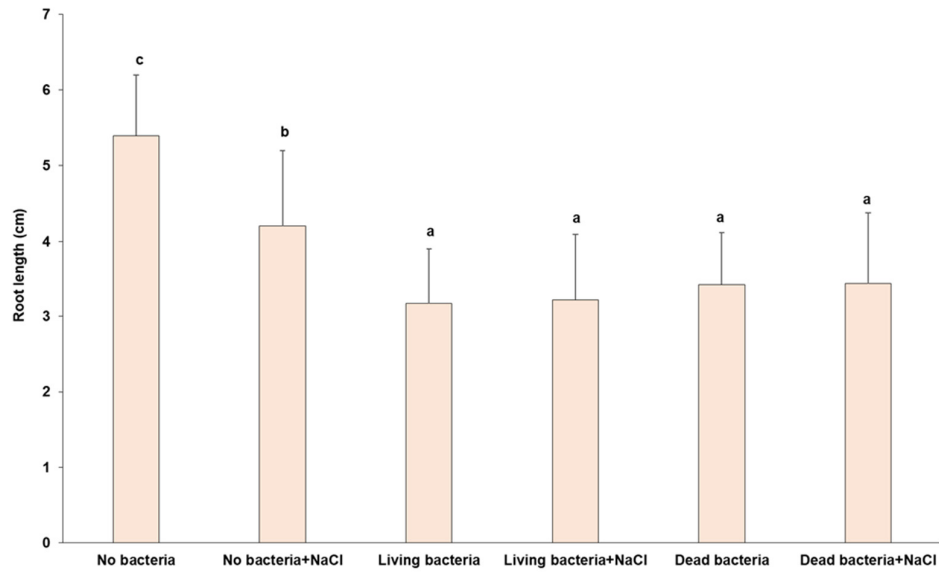


Figure S2. Length of roots from plants grown under control/salt stress conditions in the absence/presence of living or dead bacteria. Different letters indicate statistically significant values ($p < 0.05$). Statistical parameters: $X^2(5) = 73.534$, $p = 0.000$.

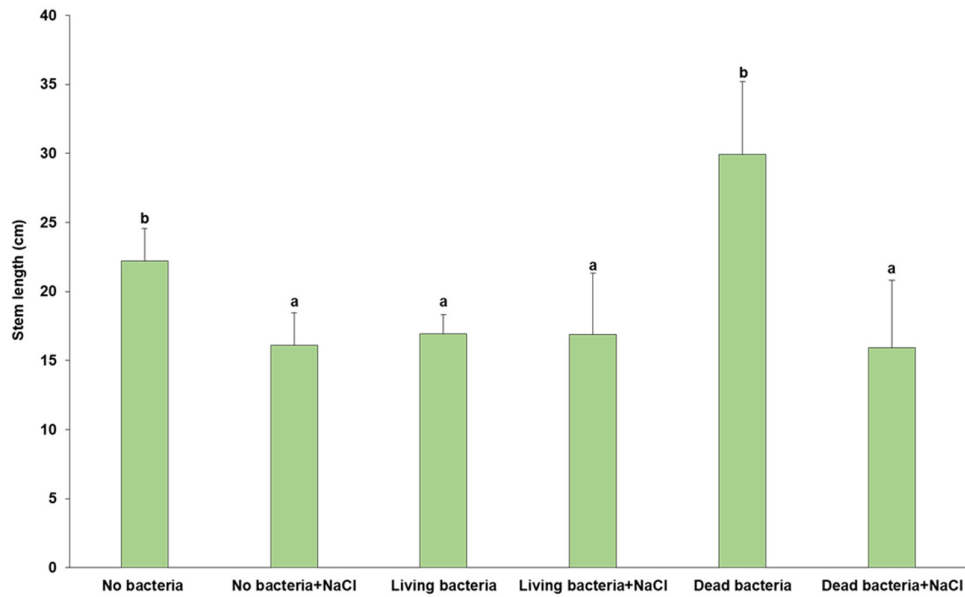


Figure S3. Length of stems from plants grown under control/salt stress conditions in the absence/presence of living or dead bacteria. Different letters indicate statistically significant values ($p < 0.05$). Statistical parameters: $X^2(5) = 43.845$, $p = 0.000$.

Table S1. Table showing the statistical parameters of Figure 5. Degree of freedom (df), F or X^2 value and significance (p). A parametric test (ANOVA one-way followed by the Tukey's post-hoc test) was applied for normal and homogeneous data, otherwise a non-parametric test (Kruskal-Wallis together with the Dunn's post-hoc test.) was performed.

Roots			
Parametric test			
Gene name	df	F	p
<i>CALB2</i>	5,12	14.969	0.000
<i>CALB4-1</i>	5,12	13.519	0.000
<i>CALB4-2</i>	5,12	12.849	0.000
<i>CesA7</i>	5,12	2.670	0.076
<i>CesA8</i>	5,12	1.947	0.160
<i>ERF1</i>	5,12	4.929	0.013
<i>HSP70-2</i>	5,12	0.761	0.595
<i>HSP81-4</i>	5,12	0.920	0.501
<i>CesA4</i>	5,12	0.988	0.464
<i>LAC11</i>	5,12	0.094	0.992
<i>LAC17</i>	5,12	1.002	0.457
<i>FLA24</i>	5,12	3.379	0.039
Non-parametric test			
Gene name	df	X^2	p
<i>CALB4-3</i>	5	13.959	0.016
<i>FLA18</i>	5	10.661	0.059
<i>FLA20</i>	5	10.310	0.067
<i>HSP70-1</i>	5	3.596	0.609
Leaves			
Parametric test			
Gene name	df	F	p
<i>CALB2</i>	5,12	18.884	0.000
<i>CALB4-1</i>	5,12	24.475	0.000
<i>CALB4-2</i>	5,12	30.130	0.000
<i>CALB4-3</i>	5,12	38.286	0.000
<i>ERF1</i>	5,12	5.479	0.007
<i>HSP70-2</i>	5,12	32.205	0.000
<i>HSP81-4</i>	5,12	9.196	0.001
<i>CesA4</i>	5,12	0.411	0.832
<i>FLA18</i>	5,12	3.466	0.036
<i>FLA20</i>	5,12	7.401	0.002
<i>FLA24</i>	5,12	15.425	0.000
Non-parametric test			

Gene name	df	χ^2	<i>p</i>
<i>CesA7</i>	5	10.848	0.054
<i>CesA8</i>	5	11.152	0.048
<i>HSP70-1</i>	5	8.860	0.115
<i>LAC11</i>	5	14.287	0.014
<i>LAC17</i>	5	15.129	0.010