

SUPPLEMENTARY MATERIALS

Table S1. Codes assigned to soil samples collected from *L. sativa* L. seedlings for microbial community analyses.

| Experimental Group/ Treatment | Sample code |
|--|--------------|
| Control group 1 seedlings “treated” with water | 0_H2O_1 |
| | 0_H2O_2 |
| | 0_H2O_3 |
| Experimental group 1 seedlings subject to salt stress - [NaCl] = 100 mM | 0_NaCl_1 |
| | 0_NaCl_2 |
| | 0_NaCl_3 |
| Control group 2 seedlings “treated” with B07 strain | B07_H2O_1 |
| | B07_H2O_2 |
| | B07_H2O_3 |
| Experimental group 2 seedlings subject to salt stress “treated” with B07 strain | B07_NaCl_1 |
| | B07_NaCl_2 |
| | B07_NaCl_3 |
| Control group 3 seedlings “treated” with <i>P. terrestris</i> cells | Yeast_H2O_1 |
| | Yeast_H2O_2 |
| | Yeast_H2O_3 |
| Experimental group 3 seedlings subject to salt stress “treated” with <i>P. terrestris</i> cells | Yeast_NaCl_1 |
| | Yeast_NaCl_2 |
| | Yeast_NaCl_3 |

Legend. 0_H2O = Tap water; 0_NaCl = NaCl 100mM solution; B07_H2O = *B. amyloliquefaciens* strain B07 in tap water soil treatment; B07_NaCl = B07 treatment on stressed soil; Yeast_H2O = *P. terrestris* strain PT22AV on tap water control soil; Yeast_NaCl = *P. terrestris* strain PT22AV treatments on stressed soil.

Table S2. Number of final reads obtained from NGS analysis for studying the taxonomic composition of lettuce soil bacterial communities.

| Sample code | Number of final reads |
|------------------------|-----------------------|
| 0_H ₂ O_1 | 21549 |
| 0_H ₂ O_3 | 28672 |
| 0_NaCl_2 | 17948 |
| 0_NaCl_3 | 14616 |
| B07_H ₂ O_2 | 26722 |
| B07_H ₂ O_3 | 23914 |
| B07_NaCl_1 | 21818 |
| B07_NaCl_2 | 29532 |
| B07_NaCl_3 | 15836 |

Legend. 0_H₂O = Control with tap water; 0_NaCl = Control watered with NaCl 100mM solution; B07_H₂O = *B. amyloliquefaciens* strain B07 treatment on soil watered with tap water; B07_NaCl = B07 treatment on stressed soil:

Table S3. Number of final reads obtained from NGS analysis for the study of the taxonomic composition of lettuce soil fungal communities.

| Sample code | Number of final reads |
|--------------------------|-----------------------|
| 0_H ₂ O_1 | 65776 |
| 0_H ₂ O_2 | 57608 |
| 0_H ₂ O_3 | 55918 |
| 0_NaCl_1 | 48958 |
| 0_NaCl_2 | 70778 |
| 0_NaCl_3 | 52760 |
| B07_H ₂ O_1 | 52669 |
| B07_H ₂ O_2 | 38252 |
| B07_H ₂ O_3 | 45569 |
| B07_NaCl_1 | 44658 |
| B07_NaCl_2 | 47750 |
| B07_NaCl_3 | 43915 |
| Yeast_H ₂ O_1 | 41938 |
| Yeast_H ₂ O_2 | 54266 |
| Yeast_H ₂ O_3 | 54137 |
| Yeast_NaCl_1 | 51374 |
| Yeast_NaCl_2 | 74014 |
| Yeast_NaCl_3 | 62342 |

Legend. 0_H₂O = Control with tap water; 0_NaCl = Control watered with NaCl 100mM solution; B07_H₂O = *B. amyloliquefaciens* strain B07 in tap water soil treatment; B07_NaCl = B07 treatment on stressed soil; Yeast_H₂O = *P. terrestris* strain PT22AV treatment watered with tap water; Yeast_NaCl = *P. terrestris* strain PT22AV treatments on stressed soil.

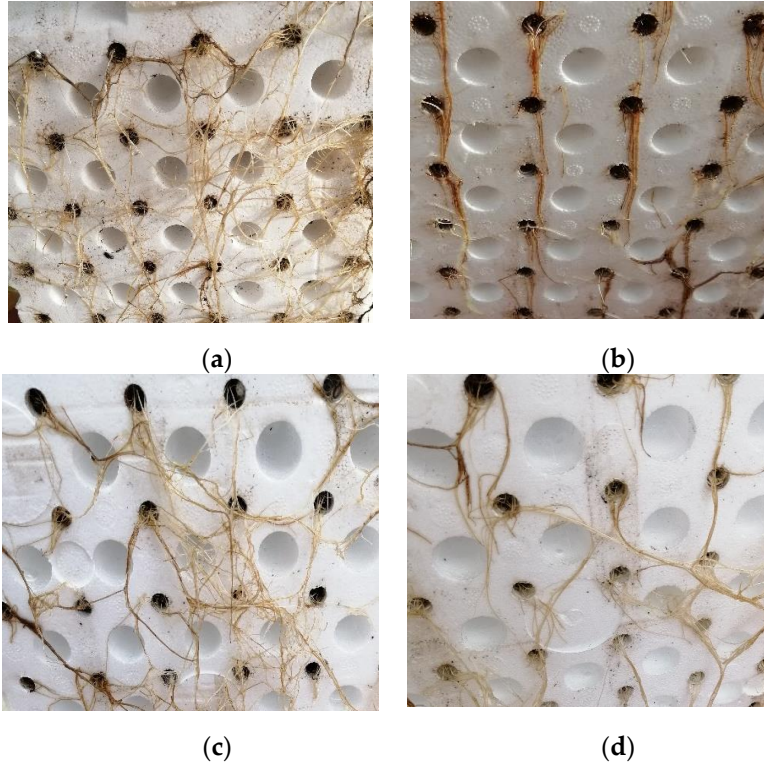


Figure S1. Example of roots observations of lettuce plants in response to salt stress (Tap water and 100 mM NaCl), at 75th day. **(a)** Only tap water; **(b)** only salt stress; **(c)** B07 tap water treatment; **(d)** B07 salt stress.

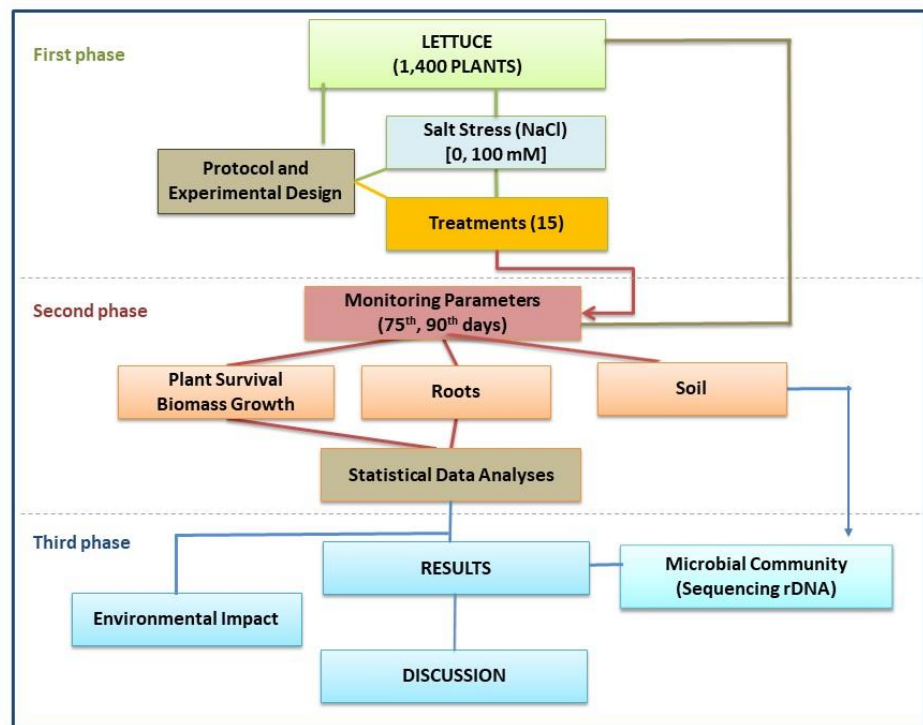


Figure S2. Schematic diagram of experimental design.