**Supplementary Table S4 Spearman correlation analysis biomaker of the root tips with other bacterial taxa in the root tips and its rhizospheric soil.**

(a) Bacteria biomaker families in the root tips with Bacteria families in its rhizospheric soil.

|  |  |  |  |
| --- | --- | --- | --- |
| **Bacteria biomaker****families** **in the root tips** | **Bacteria families** **in the** **rhizospheric soil** | Spearman correlation coefficient (r) | ***p*** |
| Enterobacteriaceae | oc28 | -0.950 | 0.007 |
| Moraxellaceae (bb) | Gemmataceae | 0.952 | 0.006 |
| Sphingomonadaceae | 0.943 | 0.008 |
| Pseudomonadaceae (bb) | Nocardioidaceae | -0.949 | 0.007 |
| Rhizobiaceae (bb) | Xanthomonadaceae | -0.943 | 0.000 |
| Burkholderiaceae (bb) | Bacillaceae | 0.949 | 0.000 |
| Frankiaceae | 0.938 | 0.000 |

(b) Bacteria biomaker families with other bacterial families in the root tips.

|  |  |  |  |
| --- | --- | --- | --- |
| **Bacteria biomaker families** **in the root tips** | **Other bacterial families****in the root tips** | **Spearman correlation coefficient (r)** | ***p*** |
| Enterobacteriaceae | Sphingobacteriaceae | -0.969 | 0.003 |
| Moraxellaceae | Comamonadaceae | -0.954 | 0.006 |
| Pseudomonadaceae | FFCH4570 | -0.959 | 0.005 |
| Rhizobiaceae | Oxalobacteraceae | -0.954 | 0.000 |
| Burkholderiaceae | Oxalobacteraceae | -0.956 | 0.000 |