**Supplementary Material**

Characteristics of bacterial communities in rhizosphere and bulk soil in Fe-deficient citrus growing in coastal saline-alkali land

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**Summary of the numbers in supporting information:**

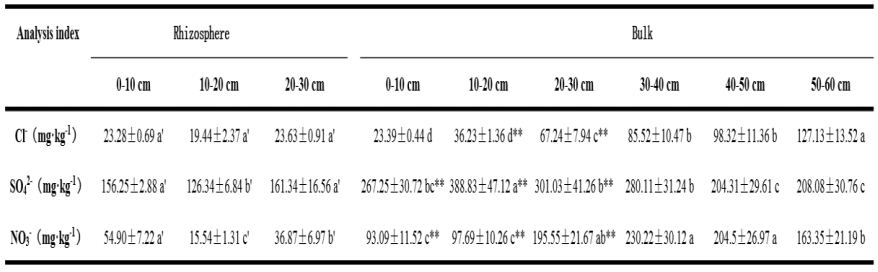
Number of pages: 4

Number of Tables: 3

**Table S1.** Physicochemical properties of the soil collected from the town of ShiPu in Ningbo City, Zhejiang Province, China

|  |  |
| --- | --- |
| **Analysis index** | **Value** |
| pH | 7.64±0.14 |
| EC (ds·m-1) | 1.70±0.09 |
| TC (%) | 1.43±0.01 |
| TN (g·kg-1) | 1.29±0.17 |
| K (g·kg-1) | 13.55±2.05 |
| Ca (g·kg-1) | 12.82±1.38 |
| Mg (g·kg-1) | 15.16±1.43 |
| Na (g·kg-1) | 9.62±0.43 |
| Zn (mg·kg-1) | 138.95±15.83 |
| Fe (g·kg-1) | 25.70±1.15 |
| Mn (mg·kg-1) | 930.27±95.92 |
| Cu (mg·kg-1) | 32.69±1.90 |

**Table. S2**. Salt anion content in the rhizosphere and bulk of coastal soil profiles. Significant differences in soil depth are indicated by small letters (P < 0.05); significant difference between rhizosphere and bulk soil is indicated by asterisks (\* < 0.05, \*\* < 0.01)



**Table S3.** Network topological indices of bacterial communities in the rhizosphere and bulk soil

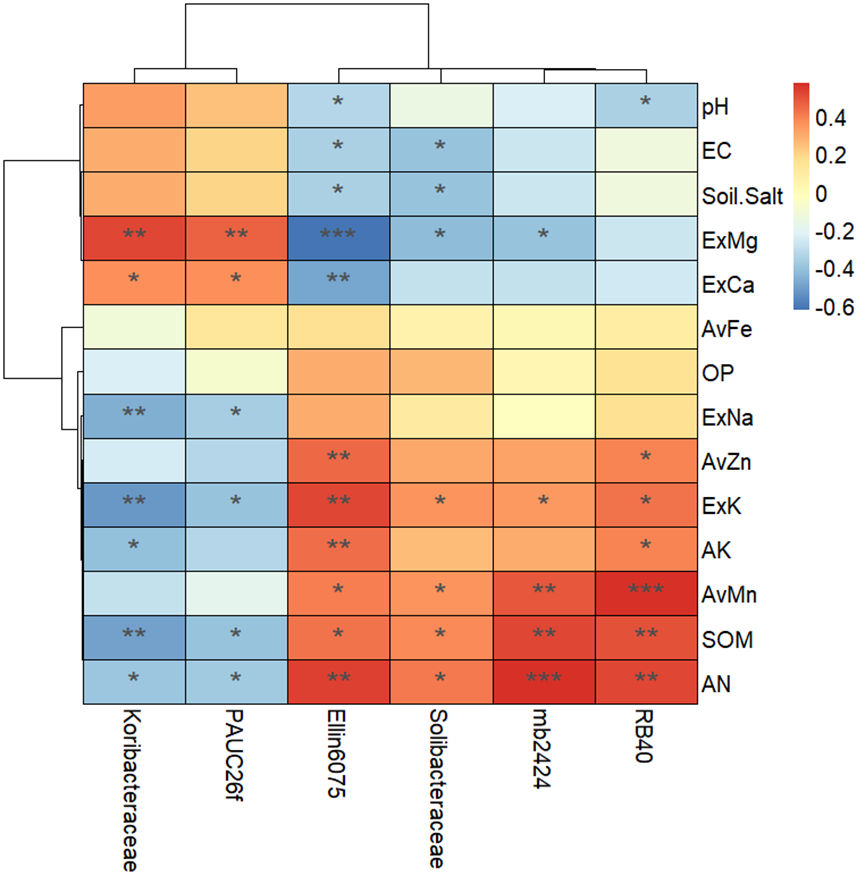


**Table S4**. Bacterial composition of functional modules in the rhizosphere in response to soil nutrient variables

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Module** | **Phylum** | **Class** | **Order** | **Family** | **Genus** |
| **Module 3** | Proteobacteria | Alphaproteobacteria | Rhodospirillales | Rhodospirillaceae | Skermanella |
| Proteobacteria | Alphaproteobacteria | Rhodospirillales | Rhodospirillaceae | Thalassobaculum |
| Proteobacteria | Alphaproteobacteria | Rhodobacterales | Hyphomonadaceae | Woodsholea |
| Proteobacteria | Alphaproteobacteria | Caulobacterales | Caulobacteraceae | Mycoplana |
| Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Hydrogenophaga |
| Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Methylibium |
| Proteobacteria | Betaproteobacteria | Burkholderiales | Burkholderiaceae | NA |
| Actinobacteria | Actinobacteria | Actinomycetales | Streptomycetaceae | Streptomyces |
| Chloroflexi | Chloroflexi | Roseiflexales | NA | NA |
| Firmicutes | Bacilli | Bacillales | NA | NA |
| **Module 7** | Proteobacteria | Alphaproteobacteria | Rhodospirillales | NA | NA |



**Figure S4.** Citrus trees in saline-alkali land showed obvious iron deficiency yellowing.



**Figure S5.** The heatmap shows the correlations between different Acidobacteria family and environmental factors. Asterisk indicates the correlation coefficient (\*P < 0.05, \*\*P < 0.01, \*\*\*P < 0.001).