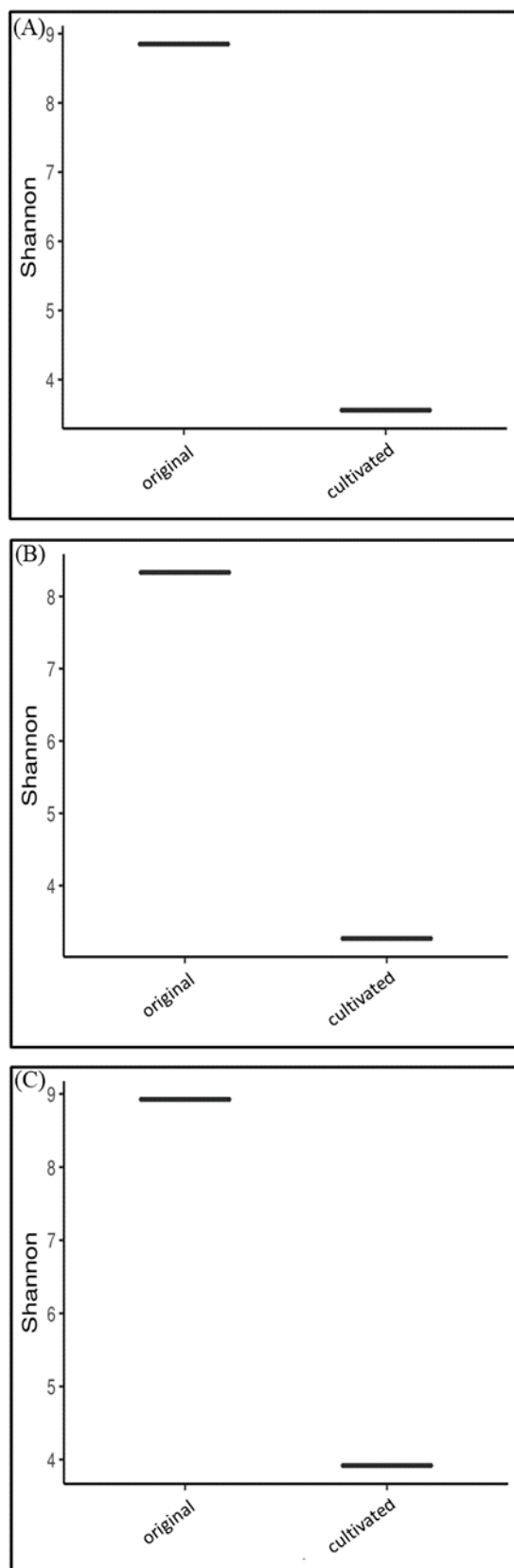
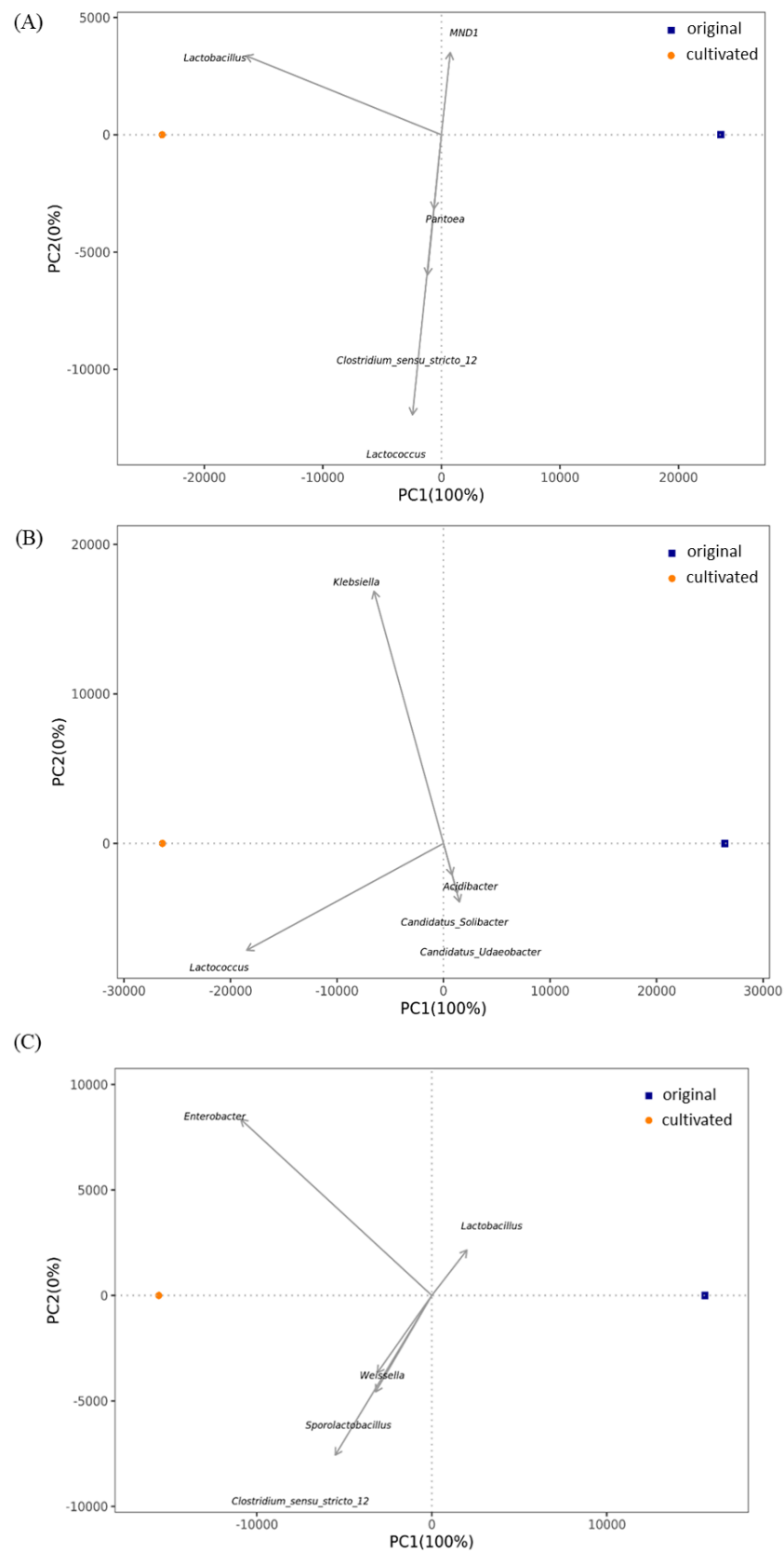


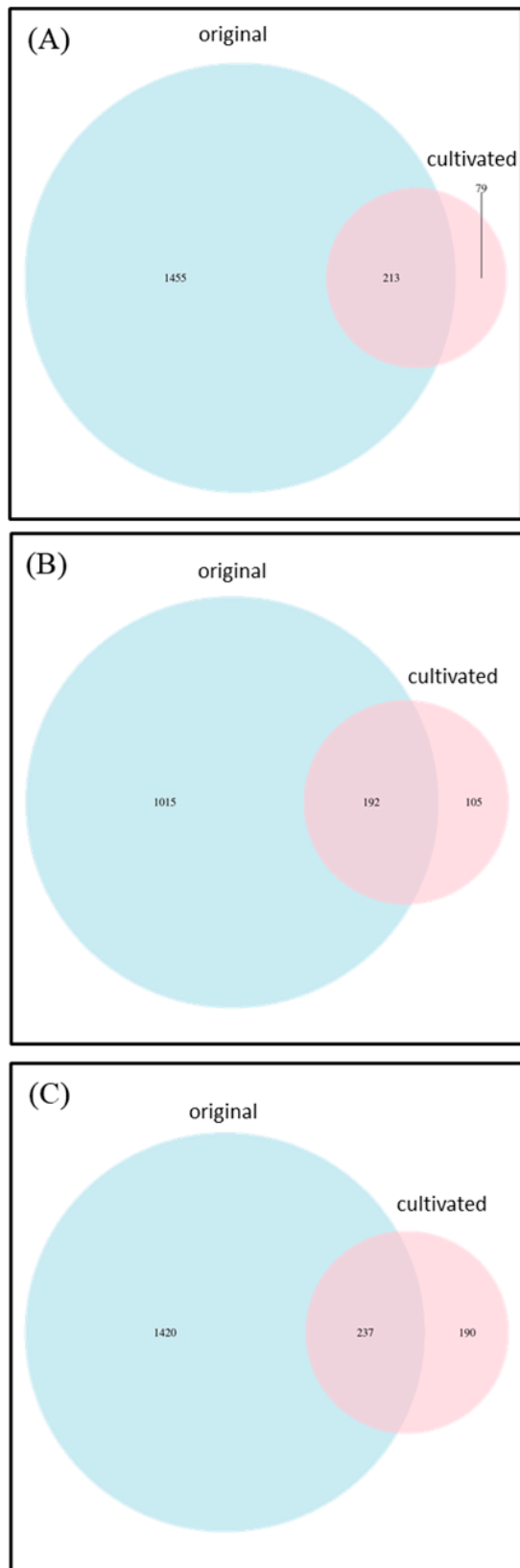
Supplementary Figure S1. The bacterial abundance in (A) irrigation water, (B) soil, and (C) rhizosphere soil were evaluated in original samples comparing to cultivated-samples.



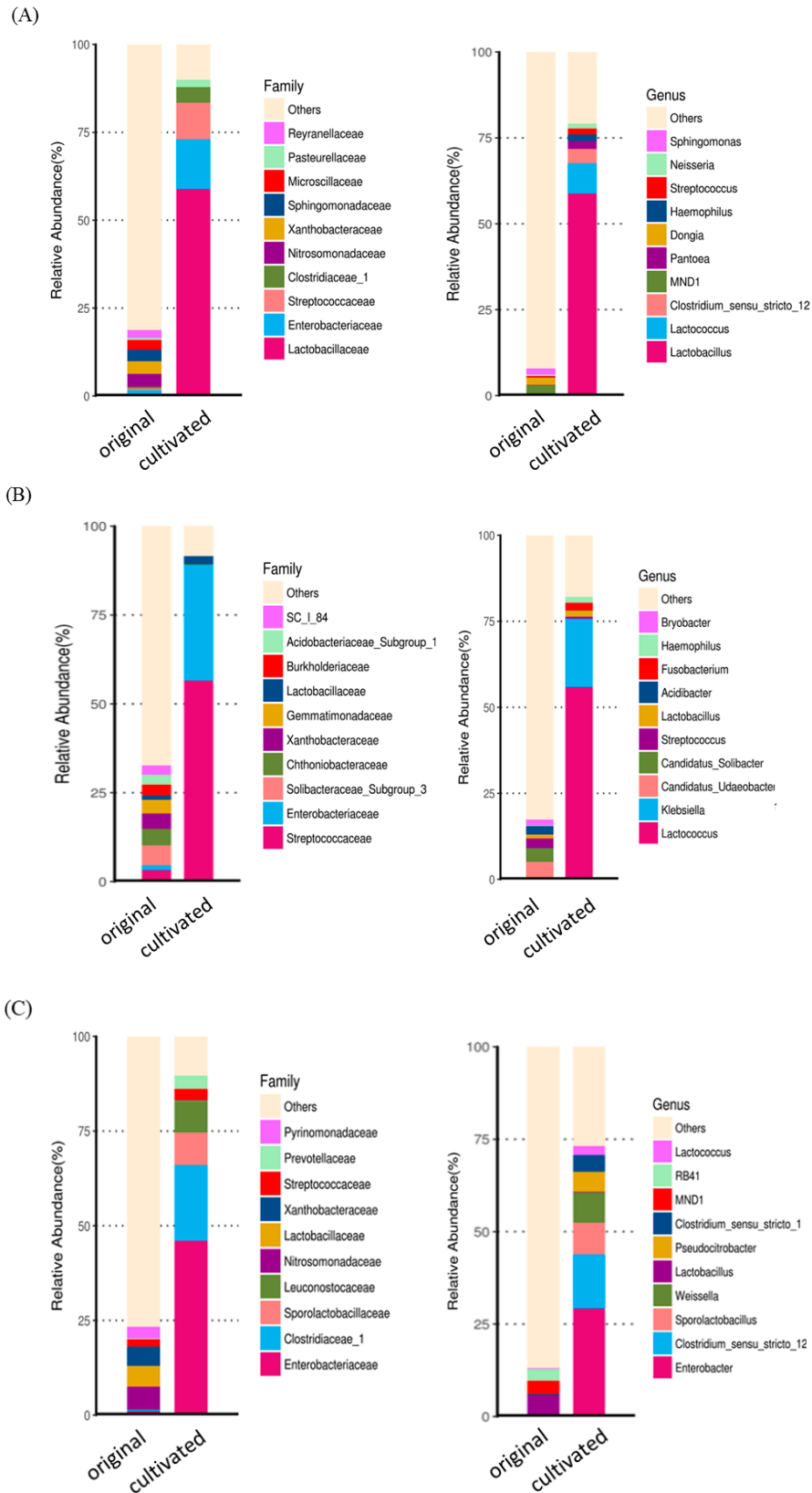
Supplementary Figure S2. The alpha-diversity of (A) irrigation water, (B) soil, and (C) rhizosphere soil in original samples compared to the cultured-samples by Shannon statistics.



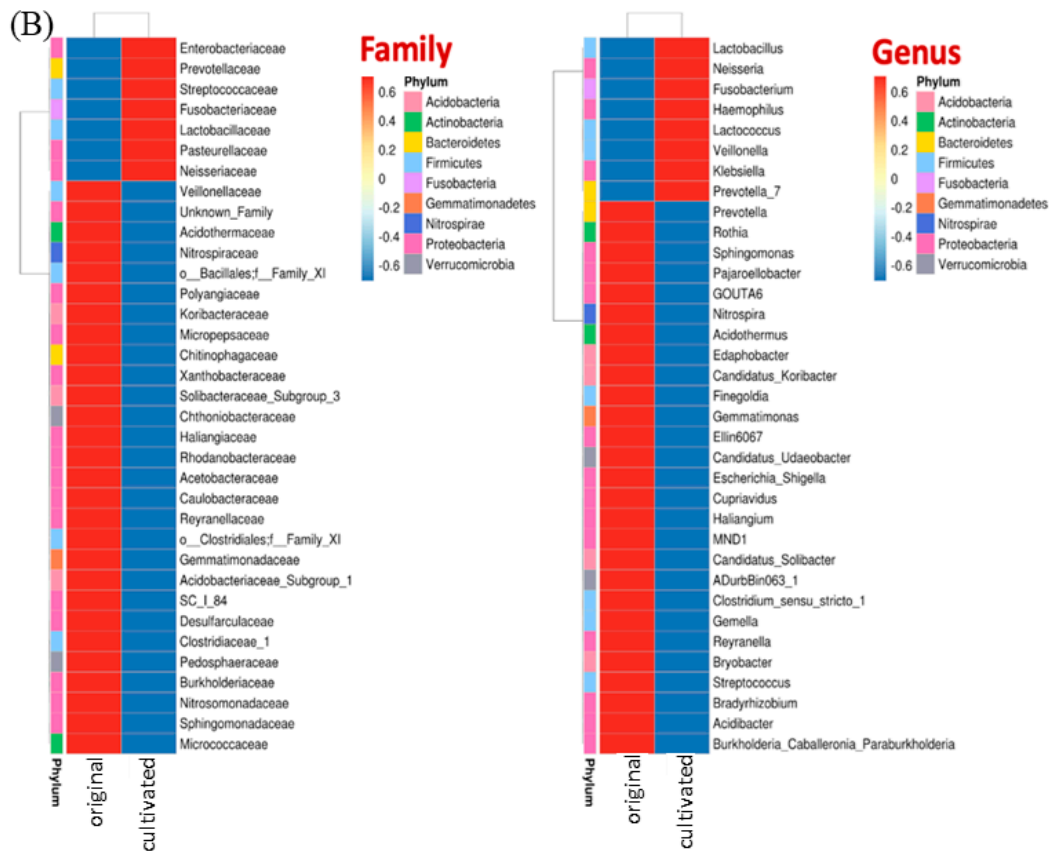
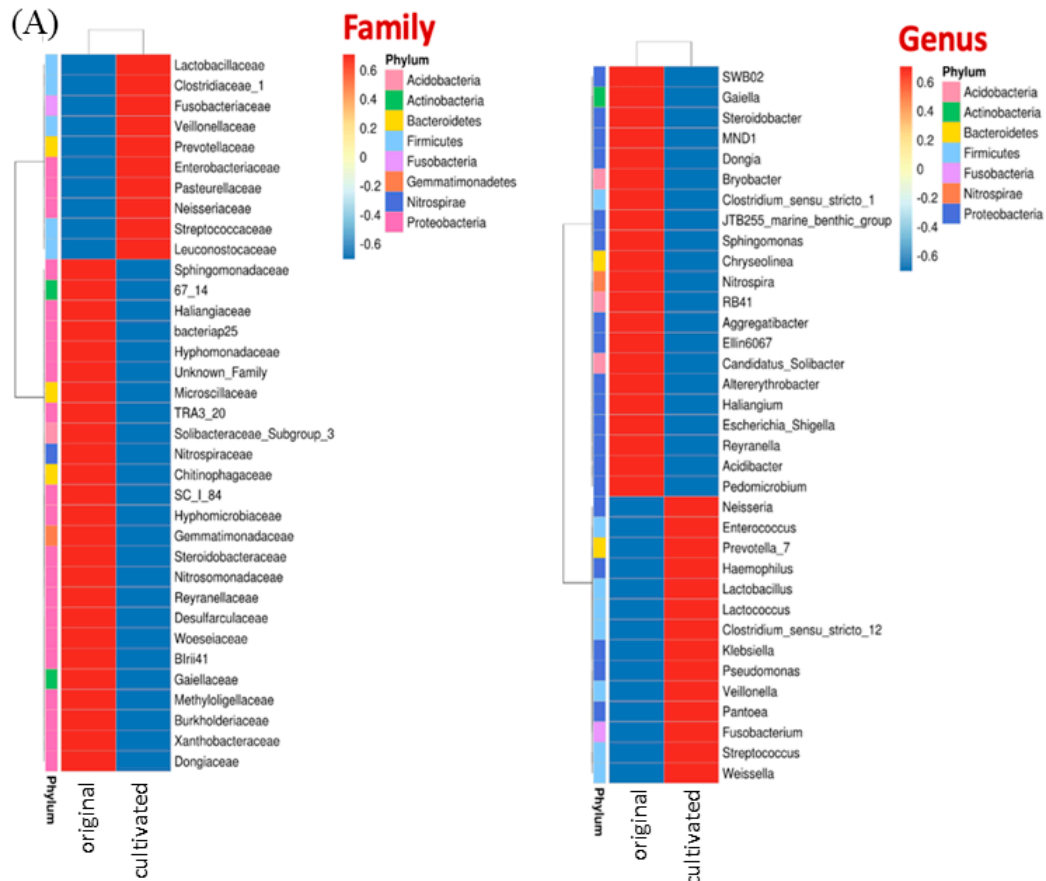
Supplementary Figure S3. The beta-diversity of (A) irrigation water, (B) soil, and (C) rhizosphere soil in original samples compared to the cultured-samples by PCA statistics.

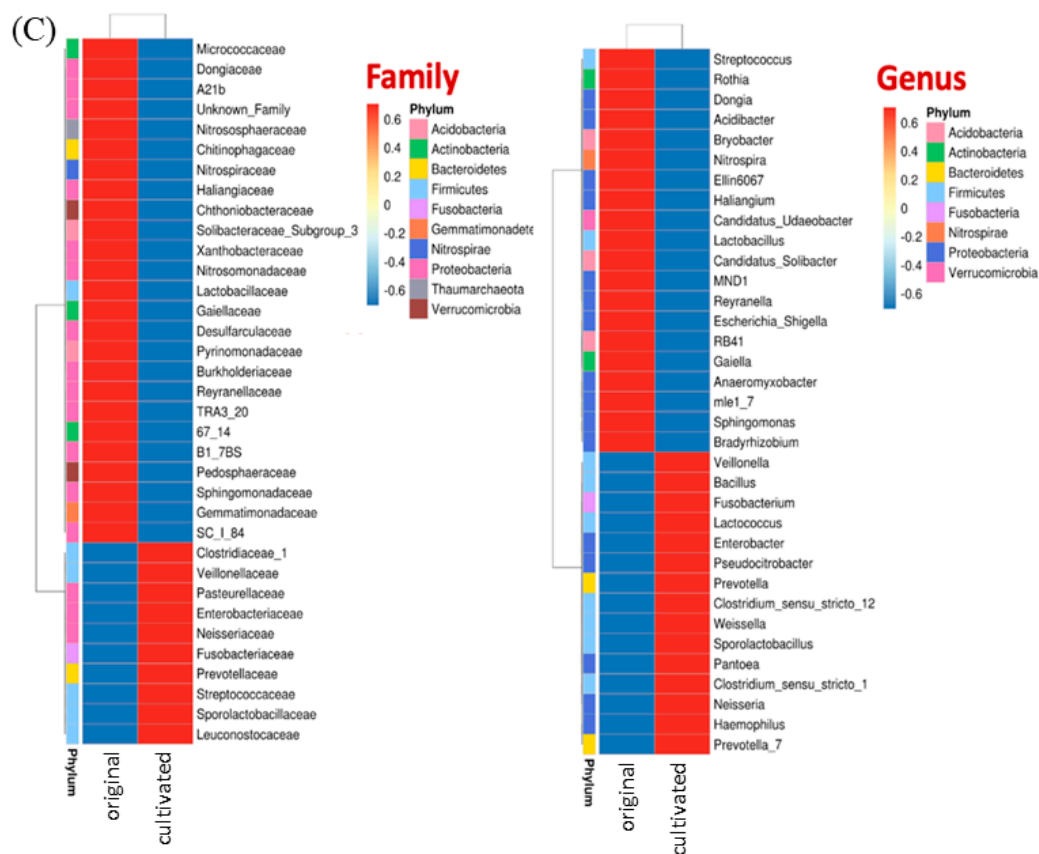


Supplementary Figure S4. The Venn diagrams of analysis for the bacterial OUT. (A) irrigation water, (B) soil, and (C) rhizosphere soil in original samples compared to the cultured-samples



Supplementary Figure S5. The major bacterial OUT appeared by Top-10. (A) irrigation water, (B) soil, and (C) rhizosphere soil in original samples compared to the cultured-samples.





Supplementary Figure S6. The main biomarkers for (A) irrigation water, (B) soil, and (C) rhizosphere soil in original samples compared to the cultured-samples.