



**Figure S2. Heatmap plot of bacterial diversity versus soil pH and soil enzyme activity** (X-axis is environmental factor, Y-axis is species. R-values and P-values were obtained by rank correlation calculations. R-values are shown in different colors in the plots. P-values are marked with \* signs with \* represents  $0.01 \leq P < 0.05$ , \*\* represents  $0.001 \leq P < 0.01$ , \*\*\* represents  $P < 0.001$ )