**Supplementary Materials**

**Nitrogen fertilizer amount has minimal effect on rhizosphere bacteria diversity during different growth stages of peanut**

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Figure S1. Pearson correlation of soil chemical properties. The red numbers in the upper-right indicate positive correlation and the blue numbers indicate negative correlation. The lower-left shows the scatter charts of the data. AP, available phosphorus; TP, total phosphorus content; AK, available potassium; TK, total potassium content; TN, total nitrogen content; ECa, exchangeable calcium; AN, alkali-hydrolyzable nitrogen. \* p < 0.05; \*\*, p < 0.01; \*\*\*, p < 0.001.



Figure S2. LEfSe results showed significantly different genera in peanut rhizosphere microbiota among different amounts of N-f fertilizer application of all samples (A and B), seedling stage samples (C and D), flower needle stage (E and F), and mature stage (G and H). UB, uncultured bacterium.

