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| **Table S1. Diversity metrics used in this study.** |
| **No.** | **Parameter** | **Alpha or Beta diversity** | **Used data with/without rarefying** | **Input data with/without phylogenetic information** | **Plugin of QIIME 2**  |
| 1 | Species richness | Alpha  | Not rarefied | Non-phylogenetic | q2-breakaway [65] |
| 2 | Faith’s Phylogenetic Diversity | Alpha  | Rarefied | Phylogenetic | q2-diversity |
| 3 | Observed OTUs | Alpha  | Rarefied | Non-phylogenetic | q2-diversity |
| 4 | Shannon’s diversity index | Alpha  | Rarefied | Non-phylogenetic | q2-diversity |
| 5 | Pielou’s Evenness | Alpha  | Rarefied | Non-phylogenetic | q2-diversity |
| 6 | Aitchison distance | Beta  | Not rarefied | Non-phylogenetic | q2-deicode [66] |
| 7 | Unweighted UniFrac distance | Beta  | Rarefied | Phylogenetic | q2-diversity |
| 8 | Weighted UniFrac distance | Beta  | Rarefied | Phylogenetic | q2-diversity |
| 9 | Jaccard distance | Beta  | Rarefied | Non-phylogenetic | q2-diversity |
| 10 | Bray-Curtis distances | Beta  | Rarefied | Non-phylogenetic | q2-diversity |
| 11 | Adonis | Beta  | Rarefied | Non-phylogenetic | q2-diversity adonis [60] [61] |