1. Bioinformatics Analysis

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| **Standard Analysis** |
| Data quality control: filtering reads containing adapter or with low quality, filtering host genome sequences |
| Assembly |
| Species annotation (microorganic sequences extracted from NCBI NR database 2016-11-05) |
| Gene prediction |
| Gene annotation（KEGG, eggNOG, CAZy,ARDB database） |
| Species/Gene/Function abundance statistics and cluster analysis |
| Comparative analysis (among samples) |