**Table.S1** The relative abundance of dominant phylum in different treatments.

|  |  |
| --- | --- |
| Phylum | Treatments |
| UL | CK | NPK | M | MNPK |
| Proteobacteria | 0.73±0.04b | 0.86±0.04a | 0.82±0.04a | 0.83±0.04a | 0.79±0.04ab |
| Cyanobacteria | 0.18±0.04a | 0.06±0.02b | 0.10±0.01b | 0.07±0.04b | 0.07±0.04b |
| Actinobacteria | 0.04±0.00ab | 0.02±0.00b | 0.04±0.01ab | 0.03±0.01ab | 0.05±0.02a |