**Table S1.** Effects of different continuous cropping spans on the relative abundance of bacteria at the phyla level

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| OTU ID | Proportion in the groups (%) | | | | | |
| 0-yr | 5-yr | 10-yr | 15-yr | 20-yr | 25-yr |
| Actinobacteria | 31.94a | 26.98b | 21.44b | 22.41b | 21.32b | 27.94b |
| Proteobacteria | 18.95b | 22.38b | 23.17b | 21.77b | 19.78b | 27.16a |
| Acidobacteria | 2.61b | 17.11a | 22.44a | 18.84a | 24.07a | 13.86a |
| Chloroflexi | 14.05a | 12.31b | 11.02b | 12.00b | 11.42b | 8.81c |
| Firmicutes | 5.39ab | 2.93d | 3.57cd | 5.89a | 3.96cd | 4.60bc |
| Bacteroidetes | 11.07a | 2.05bc | 1.48c | 2.47b | 1.35c | 1.98bc |
| Gemmatimonadetes | 0.47c | 4.88a | 4.11aba | 3.18b | 4.37ab | 4.12ab |
| Nitrospirae | 0.15c | 1.01a | 1.23a | 0.68b | 1.02a | 1.12a |
| Candidatus\_Saccharibacteria | 0.58b | 0.96a | 0.64b | 1.15a | 0.47b | 0.96a |
| Deinococcus-Thermus | 2.92a | 0.09b | 0.04b | 0.27b | 0.08b | 0.07b |
| Cyanobacteria\_Chloroplast | 1.32a | 0.27bc | 0.24c | 0.28bc | 0.44bc | 0.74b |
| unclassified | 8.65 | 7.91 | 8.37 | 9.55 | 9.85 | 7.54 |
| others | 1.89 | 1.13 | 1.43 | 1.51 | 1.88 | 1.11 |

Note: Different lowercase letters in the significant difference at *p* < 0.05 among groups.