**Table S2.** Effects of different continuous cropping spans on the relative abundance of bacteria at the genus level

|  |  |
| --- | --- |
| OTU ID | Proportion in the groups (%) |
| 0-yr | 5-yr | 10-yr | 15-yr | 20-yr | 25-yr |
| *Gp6* | 0.86b | 8.07a | 12.95a | 10.68a | 11.92a | 6.89ab |
| *Arthrobacter* | 2.08c | 8.01ab | 6.60b | 7.11b | 6.43b | 11.40a |
| *Gemmatimonas* | 0.47c | 4.88a | 4.11ab | 3.18b | 4.37ab | 4.12ab |
| *Gp4* | 0.11d | 3.40b | 2.62bc | 2.78bc | 5.39a | 1.73c |
| *Gp16* | 0.38c | 1.71ab | 2.71a | 2.04ab | 2.39ab | 1.49b |
| *Sphingomonas* | 0.85d | 2.29ab | 1.75bc | 1.67bcd | 1.36cd | 2.66a |
| *Bacillus* | 1.15a | 1.21a | 1.29a | 1.30a | 1.46a | 1.58a |
| *Geminicoccus* | 2.21a | 0.98b | 0.85b | 1.13b | 0.76b | 1.92a |
| *Gaiella* | 0.22c | 2.23a | 1.47b | 1.27b | 1.25b | 1.60b |
| *Streptomyces* | 0.49c | 1.52ab | 1.47ab | 1.04b | 1.61a | 1.28ab |
| *Nitrospira* | 0.15c | 1.01a | 1.23a | 0.68b | 1.02a | 1.12a |
| *Pontibacter* | 3.10a | 0.36b | 0.14b | 0.63b | 0.11b | 0.34b |
| *Litorilinea* | 1.36a | 0.49c | 0.74bc | 0.73bc | 0.86b | 0.61bc |
| *Saccharibacteria\_genera\_incertae\_sedis* | 0.58b | 0.96a | 0.64b | 1.15a | 0.47b | 0.96a |
| *Nocardioides* | 0.37b | 1.63a | 0.85b | 0.57b | 0.62b | 0.62b |
| *Gp7* | 0.18d | 1.06a | 0.62bc | 0.57c | 0.71bc | 0.77b |
| *Euzebya* | 2.55a | 0.20c | 0.12c | 0.10c | 0.13c | 0.33b |
| *Nitriliruptor* | 3.17a | 0.02b | < 0.001 | 0.02b | 0.01b | 0.01b |
| *Truepera* | 2.82a | 0.05b | 0.03b | 0.26b | 0.07b | 0.05b |
| *Marmoricola* | 0.29b | 0.60ab | 0.70ab | 0.59ab | 0.76a | 0.36ab |
| *Dongia* | 0.03c | 0.46b | 0.60ab | 0.63ab | 0.89a | 0.47b |
| *Blastococcus* | 0.88a | 0.65ab | 0.35c | 0.34c | 0.33c | 0.43bc |
| *Pseudomonas* | 0.07b | 0.21b | 0.90ab | 0.61ab | 0.04b | 1.09a |
| *Hyphomicrobium* | 0.02c | 0.38b | 0.49b | 0.92a | 0.40b | 0.42b |
| *Aliifodinibius* | 1.88a | < 0.001 | < 0.001 | 0.16b | 0.01b | < 0.001 |
| *Aridibacter* | 0.02b | 0.32ab | 0.64a | 0.36ab | 0.52a | 0.34ab |
| *Rubellimicrobium* | 1.30a | 0.14b | 0.11b | 0.09b | 0.05b | 0.20b |
| *Sphaerobacter* | 1.32a | 0.07b | 0.05b | 0.04b | 0.05b | 0.06b |
| *Gillisia* | 1.19a | 0.01b | < 0.001 | < 0.001 | < 0.001 | 0.01b |
| unclassified | 36.5 | 24.76 | 26.77 | 27.07 | 27.14 | 24.01 |
| others | 33.4 | 32.31 | 29.19 | 32.26 | 28.89 | 33.11 |

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