S1 Table. Metadata of sequenced samples used for screening the influence of pH, host and season (Mid- and Late-August) on the copepod microbiomes.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| #SampleID | Species | pH\_range | pH\_mean | O2\_range | O2\_mean | Season |
| AF..01 | Cent | below\_8.8 | 8.3 | below\_13 | 10.8 | Mid\_August |
| AF..02 | Cent | below\_8.8 | 8.3 | below\_13 | 9.7 | Mid\_August |
| AF..03 | Cent | above\_8.8 | 8.8 | above\_13 | 15.1 | Mid\_August |
| AF..04 | Cent | above\_8.8 | 8.8 | above\_13 | 15.1 | Mid\_August |
| AF..05 | Cent | above\_8.8 | 8.9 | above\_13 | 18.3 | Mid\_August |
| AF..06 | Cent | above\_8.8 | 8.8 | above\_13 | 17.3 | Mid\_August |
| AF..07 | Cent | above\_8.8 | 8.8 | above\_13 | 17 | Mid\_August |
| AF..08 | Cent | below\_8.8 | 8.4 | below\_13 | 10.5 | Mid\_August |
| AF..09 | Cent | below\_8.8 | 8.4 | below\_13 | 10.5 | Mid\_August |
| AF..10 | Cent | below\_8.8 | 8.4 | below\_13 | 10.5 | Mid\_August |
| AF..11 | Cent | below\_8.8 | 8.4 | below\_13 | 10.5 | Mid\_August |
| AF..12 | Cent | above\_8.8 | 9.4 | above\_13 | 18.1 | Late\_August |
| AF..13 | Cent | above\_8.8 | 9.2 | above\_13 | 16.1 | Late\_August |
| AF..14 | Cent | above\_8.8 | 9.1 | above\_13 | 15.6 | Late\_August |
| AF..15 | Cent | above\_8.8 | 9.0 | above\_13 | 15.4 | Late\_August |
| AF..16 | Cent | below\_8.8 | 8.5 | below\_13 | 11 | Late\_August |
| AF..17 | Cent | below\_8.8 | 8.4 | below\_13 | 9.8 | Late\_August |
| AF..22 | Acar | below\_8.8 | 8.3 | below\_13 | 10.8 | Mid\_August |
| AF..23 | Acar | below\_8.8 | 8.3 | below\_13 | 9.7 | Mid\_August |
| AF..24 | Acar | above\_8.8 | 8.8 | above\_13 | 15.1 | Mid\_August |
| AF..26 | Acar | below\_8.8 | 8.4 | below\_13 | 10.5 | Mid\_August |