## Biotic and abiotic properties mediating sediment microbial diversity and function patterns in a river-lake continuum

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**Table. S1** Description of the 27 sampling sites and their geographical distance.

|  |  |  |  |
| --- | --- | --- | --- |
| **Number** | **Site** | **Longitude** | **Latitude** |
| 1 | DS5\_1 | 112.896 | 29.429 |
| 2 | DS9\_1 | 113.058 | 29.338 |
| 3 | DS16\_1 | 112.969 | 29.08 |
| 4 | DS17\_1 | 112.945 | 29.02 |
| 5 | DS18\_1 | 113.037 | 28.88 |
| 6 | DS19\_1 | 112.809 | 28.568 |
| 7 | DS20\_1 | 112.861 | 28.706 |
| 8 | DS21\_1 | 112.838 | 28.765 |
| 9 | DS22\_1 | 112.894 | 28.827 |
| 10 | DS22\_2 | 112.894 | 28.827 |
| 11 | DS22\_3 | 112.894 | 28.827 |
| 12 | DS24\_1 | 112.28 | 28.855 |
| 13 | DS25\_1 | 112.296 | 28.841 |
| 14 | DS29\_1 | 112.399 | 28.851 |
| 15 | DS31\_1 | 112.426 | 28.804 |
| 16 | DS33\_1 | 112.517 | 28.808 |
| 17 | DS35\_1 | 112.559 | 28.857 |
| 18 | DS37\_1 | 112.254 | 29.103 |
| 19 | DS37\_2 | 112.254 | 29.103 |
| 20 | DS37\_3 | 112.254 | 29.103 |
| 21 | DS38\_1 | 112.287 | 29.063 |
| 22 | DS38\_2 | 112.287 | 29.063 |
| 23 | DS38\_3 | 112.287 | 29.063 |
| 24 | DS39\_1 | 112.305 | 29.07 |
| 25 | DS40\_1 | 112.317 | 29.054 |
| 26 | DS41\_1 | 112.334 | 29.045 |
| 27 | DS44\_1 | 112.211 | 28.916 |