Table S1: General characteristics of the Black Sea metagenomes

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sample | Black Sea Area | Date of sampling | Biome type | Number of Reads | Number of Trimmed Reads | Number of Contigs | Min length of contig (bp) |
| P21 | Poti | May,  2018 | Prokaryotes | 2 353 175 | 2 228 316 | 1830 | 1000 |
| 2 353 175 | 2 222 432 |
| P24 | Gonio | May,  2018 | Prokaryotes | 2 197 729 | 1 125 523 | 286 | 1000 |
| 2 197 729 | 2027 751 |
| P31 | Poti | September,  2018 | Prokaryotes | 2 638 018 | 1518830 | 2752 | 1000 |
| 2 638 018 | 1895710 |
| P34 | Gonio | September,  2018 | Prokaryotes | 3 836 608 | 2 955 016 | 2233 | 1000 |
| 3 836 608 | 2393060 |
| V26 | Poti | May, 2018 | Viruses | 6 309 194 | 5 625 988 | 7286 | 1000 |
| 6 309 194 | 5 439 257 |
| V29 | Gonio | May, 2018 | Viruses | 5 953 337 | 5 144 155 | 8167 | 1000 |
| 5 953 337 | 4 936 673 |
| V34 | Gonio | September,  2018 | Viruses | 3 134 657 | 2 955 016 | 2233 | 1000 |
| 3 134 657 | 2393060 |
| V36 | Poti | September,  2018 | Viruses | 3 020 702 | 2964 436 | 4678 | 1000 |
| 3 020 702 | 2958 702 |

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