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| **Table S3** Relative abundance (in %) of the sequences from biofilms on seven coloured substrata assigned to different classes. |
| **Taxon** | **Black** | **Red** | **Orange** | **Blue** | **White** | **Yellow** | **Green** |
| 028H05-P-BN-P5 | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| AEGEAN-245 | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Acidobacteria | 0.1% | 0.2% | 0.1% | 0.2% | 0.2% | 0.1% | 0.2% |
| Actinobacteria | 0.4% | 0.5% | 0.4% | 0.4% | 0.5% | 0.4% | 0.5% |
| Alphaproteobacteria | 24.1% | 23.9% | 24.4% | 20.6% | 23.3% | 21.8% | 22.3% |
| Anaerolineae | 0.4% | 0.4% | 0.2% | 0.3% | 0.4% | 0.4% | 0.3% |
| Ardenticatenia | 0.2% | 0.3% | 0.1% | 0.2% | 0.3% | 0.1% | 0.1% |
| Armatimonadetes\_norank | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| BD1-5\_norank | 0.1% | 0.1% | 0.1% | 0.2% | 0.1% | 0.1% | 0.1% |
| BD2-2 | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Bacilli | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% | 0.2% |
| Bacteria\_unclassified | 0.4% | 0.3% | 0.2% | 0.2% | 0.2% | 0.1% | 0.2% |
| Bacteroidetes\_bacteroidetes\_incertae\_sedis | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Bacteroidetes\_unclassified | 0.1% | 0.1% | 0.1% | 0.2% | 0.1% | 0.1% | 0.2% |
| Bacteroidia | 0.1% | 0.1% | 0.0% | 0.1% | 0.0% | 0.0% | 0.0% |
| Betaproteobacteria | 1.0% | 0.8% | 0.9% | 3.0% | 1.4% | 1.2% | 1.1% |
| CKC4\_norank | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Caldilineae | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Candidate\_division\_BRC1\_norank | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Candidate\_division\_OD1\_norank | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Candidate\_division\_TM7\_norank | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Candidate\_division\_WS3\_norank | 0.0% | 0.1% | 0.0% | 0.1% | 0.0% | 0.0% | 0.0% |
| Chlamydiae | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Chlorobia | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Clostridia | 0.2% | 0.1% | 0.1% | 0.3% | 0.1% | 0.1% | 0.1% |
| Cyanobacteria | 0.2% | 0.2% | 0.1% | 0.2% | 0.2% | 0.1% | 0.2% |
| Cytophagia | 1.9% | 1.2% | 1.5% | 1.7% | 1.8% | 0.9% | 1.7% |
| Deferribacteres | 0.0% | 0.0% | 0.1% | 0.1% | 0.1% | 0.0% | 0.1% |
| Deinococci | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Deltaproteobacteria | 0.6% | 0.7% | 0.4% | 0.7% | 0.7% | 0.4% | 0.7% |
| Epsilonproteobacteria | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Erysipelotrichia | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Flavobacteria | 54.5% | 56.1% | 54.7% | 51.0% | 51.7% | 57.6% | 55.9% |
| Fusobacteria | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Gammaproteobacteria | 12.4% | 11.2% | 13.6% | 16.0% | 15.3% | 14.1% | 12.7% |
| Gemmatimonadetes | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Ignavibacteria | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| JG30-KF-CM66 | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| KD4-96 | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| LD1-PA34 | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| LD1-PB3 | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Lentisphaeria | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Mollicutes | 0.0% | 0.0% | 0.1% | 0.0% | 0.0% | 0.0% | 0.0% |
| Nitrospira | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| OM190 | 0.1% | 0.1% | 0.0% | 0.1% | 0.1% | 0.0% | 0.1% |
| Opitutae | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Phycisphaerae | 0.0% | 0.1% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Pla3\_lineage | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Pla4\_lineage | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Planctomycetacia | 1.3% | 1.8% | 1.4% | 1.5% | 1.4% | 1.0% | 1.2% |
| Proteobacteria\_unclassified | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% |
| R76-B128 | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| SB-1 | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| SC3-20 | 0.1% | 0.2% | 0.1% | 0.2% | 0.2% | 0.1% | 0.1% |
| SS1-B-03-39 | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Skagenf62 | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Sphingobacteriia | 1.2% | 1.0% | 0.9% | 2.5% | 1.3% | 1.0% | 1.4% |
| Spirochaetes | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| TA18 | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| TM6\_norank | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Thermomicrobia | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| VC2.1\_Bac22 | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Verrucomicrobiae | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| pItb-vmat-80 | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |