**Table S5.** Summary of significant OTUs-99% associations with MIC > 0.5 for the *TARA Oceans* dataset based on MIC.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Associations1** | **% OTUs (#)2** | **Abundance (%)3** | **MIC-⍴2 > 0.2 (%)4** |
| **Eukaryote – Eukaryote (MIC>0.8)** | 747 | 21.5 (437) | 22.7 | 91.3 |
| **Eukaryote – Eukaryote (MIC>0.7)** | 3,238 | 50.7 (1,028) | 66.4 | 89.6 |
| **Eukaryote – Eukaryote (MIC>0.5)** | 49,839 | 96.5 (1,956) | 99.6 | 88.1 |
| **Prokaryote – Prokaryote (MIC>0.8)** | 2,270 |  46.6 (771) | 69.0 | 23.6 |
| **Prokaryote – Prokaryote (MIC>0.7)** | 6,698 | 72.6 (1,203) | 84.9 | 37.2 |
| **Prokaryote – Prokaryote (MIC>0.5)** | 73,705 | 97.2 (1,611) | 99.2 | 63.4 |
| **Eukaryote – Environment (MIC>0.7)** | 248 | 1.96 (199) | 4.0 | 99.1 |
| **Eukaryote – Environment (MIC>0.5)** | 2,811 | 19.3 (1957) | 28.5 | 94.8 |
| **Prokaryotes – Environment (MIC>0.7)** | 66 | 1.0 (50) | 0.99 | 92.4 |
| **Prokaryotes – Environment (MIC>0.5)** | 1,099 | 14.7 (740) | 17.9 | 72.6 |

1 Number of associations (NB: OTUs may feature more than one association). 2 Percentage of OTUs involved in associations; corresponding OTU numbers are given within parentheses. 3 Percentage of total abundance of OTUs involved in associations.  4 Percentage of non-linear associations (MIC-⍴2 >0.2) out of all associations1