

## **Description of Additional Supplementary Files**

File Name: Supplementary Data 1

Description: Methodological context for metagenomic samples.

File Name: Supplementary Data 2

Description: Environmental parameters measured for each metagenomic sample.

File Name: Supplementary Data 3

Description: Name and accession number of metagenomic samples

File Name: Supplementary Data 4

Description: Phylogenetic trees of horizontal gene transfers candidates