

## **Description of Additional Supplementary Files:**

**Supplementary Dataset 1:** Spreadsheet listing all bacterial strains, plasmids, phages, and primers and environmental samples used in this study.

**Supplementary Dataset 2:** Spreadsheet listing all phage genomes used for comparative genomics analyses (tequiviruses, fiersviruses, inoviruses, FtMidnight-relatives), and SRA datasets for metagenomic analyses.

**Supplementary Dataset 3:** Spreadsheet listing CRISPR-Cas and RM hits in bacterial hosts.