Supplementary Table S1. Metagenome, metavirome and RNA-seq read data used in this study

Country	Site	Year[a]	Reads[b]	Accession[c] (sample/type)	Reference[d]
Argentina	Salina Laguna Colorada Chica	2019	2 × 150 nt	ERR7916263	(Viver *et al.*, 2023)
Australia	Lake Hillier	2015	2 × 250 nt	SRR26978067 (FW-E3) SRR26968577 (FW-D3)	(Sierra *et al.*, 2022)
Australia	Lake Tyrrell	2009 2009 2010 2010	Average = 515 nt	SRR5637210 SRR5637211 SRR402042 SRR402044 (virus concentrates)	(Podell *et al.*, 2014)
Australia	Lake Tyrrell	2018	2 × 100 nt	SRR24125903-4 (RNA-seq)	(Le Lay *et al.*, 2023)
Puerto Rico	Cabo Rojo Saltern	2014	2 × 250 nt	SRR8816317 (sample 1)	(Couto-Rodriguez and Montalvo-Rodriguez, 2019)
Puerto Rico	Cabo Rojo Saltern	2016	2 × 150 nt	SRR8816318 (sample 2) SRR8816319 (sample 3)	(Couto-Rodriguez and Montalvo-Rodriguez, 2019)
Spain	Isla Cristina saltern	2020	2 × 150 nt	SRR23092357 SRR21894959	(Garcia-Roldan *et al.*, 2023)
Spain	Alicante, Santa Pola saltern, CR30	2019	2 × 250 nt	SRR13926770	(Aldeguer-Riquelme *et al.*, 2021)
Spain	Mallorca, s'Avall solar saltern	2018	2 × 150 nt	ERR5979340	(Viver *et al.*, 2023)
Spain	Alicante, Santa Pola brines	2019	2 × 100 nt	SRR10674835-40 (RNA-seq)	PRJNA595057 Reg. date: 12-Dec-2019 Centro de Astrobiologia

[a] Year of sampling or year of release of sequence data if sampling date is not given.
[b] Most reads are paired (2 ×). Read lengths given in nucleotides (nt). RNA-seq reads are strand-specific.
[c]Accessions from ENA (https://www.ebi.ac.uk/ena/browser/home) or SRA (https://www.ncbi.nlm.nih.gov/sra).
[d]Either a publication or an NCBI BioProject ID (https://www.ncbi.nlm.nih.gov/bioproject).

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