

Suggested reading for the Phage Phorum:

For general introduction see the following book freely available online:
“Life in our Phage World”, F. Rohwer, M. Youle, H. Maughan, N. Hisakawa
<https://coralandphage.org/index.php>

Papers:

Howard-Varona, C. *et al.* 2020. Phage-specific metabolic reprogramming of virocells. *ISMEJ*. 14:881-895.

Gregory, A. †, Zayed, A. † *et al.* 2019. Marine DNA viral macro- and micro-diversity from pole to pole. *Cell*. 177: 1109-1123.

Howard-Varona, C. †, Hargreaves, K.R. †, Abedon, S.T. & Sullivan, M.B. 2017. Lysogeny in nature – mechanisms, impact and ecology of temperate phages. *ISMEJ*. 16:1-10.

Bolduc, B., Youens-Clark, K., Roux, S., Hurwitz, B.L.^, & Sullivan, M.B.^ 2017. iVirus: facilitating new insights into viral ecology with software and community datasets imbedded in a cyberinfrastructure. *ISMEJ*. 11:7-14.

Roux, S. *et al.* 2016. Ecogenomics and potential biogeochemical impacts of globally abundant ocean viruses. *Nature*. 537: 689-693.

Li, G., Cortez, M.H. and Weitz, J.S. (2020) When to be temperate: on the benefits of lysogeny vs. lysis, *Virus Evolution*; veaa042

<https://academic.oup.com/ve/article/doi/10.1093/ve/veaa042/5842152>

Weitz, J.S., Li, G., Gulbudak, H., Cortez, M.H., and Whitaker, R.J. (2019) Viral invasion fitness across a continuum from lysis to latency. *Virus Evolution*. 5: vez006

<https://academic.oup.com/ve/article/5/1/vez006/5476198>

Wahl, L. M., Betti, M. I., Dick, D. W., Pattenden, T., and Puccini, A. J. Evolutionary stability of the lysis-lysogeny decision: Why be virulent? *Evolution*, 73(1):92-98, 2019. doi: 10.1111/evo.13648

Weitz, JS. (2015) *Quantitative Viral Ecology: Dynamics of Viruses and Their Microbial Hosts*. Princeton University Press.
<https://press.princeton.edu/books/hardcover/9780691161549/quantitative-viral-ecology>

Evolutionary relationships among diverse bacteriophages and prophages: all the world's a phage, R W Hendrix, M C Smith, R N Burns, M E Ford, G F Hatfull

<https://pubmed.ncbi.nlm.nih.gov/10051617/>

Cas13-induced cellular dormancy prevents the rise of CRISPR-resistant bacteriophage
Alexander J Meeske, Sandra Nakandakari-Higa, Luciano A Marraffini

<https://pubmed.ncbi.nlm.nih.gov/31142834/>

A phage-encoded anti-CRISPR enables complete evasion of type VI-A CRISPR-Cas immunity, Alexander J Meeske, Ning Jia Alice K Cassel, Albina Kozlova, Jingqiu Liao, Martin Wiedmann, Dinshaw J Patel, Luciano A Marraffini

<https://pubmed.ncbi.nlm.nih.gov/32467331/>

Pleiotropy complicates a trade-off between phage resistance and antibiotic resistance. Alita R. Burmeistera et al

<https://pubmed.ncbi.nlm.nih.gov/32424102/>

Phage Therapy: A Renewed Approach to Combat Antibiotic-Resistant Bacteria
Kaitlyn E. Kortright, Benjamin K. Chan, Jonathan L. Koff and Paul E. Turner,

<https://pubmed.ncbi.nlm.nih.gov/30763536/>

Evolution of mutualism from parasitism in experimental virus populations
Jason W. Shapiro and Paul E. Turner

<https://pubmed.ncbi.nlm.nih.gov/29380361/>