



# PHASEBOOK

Quarterly Newsletter: Summer 2023

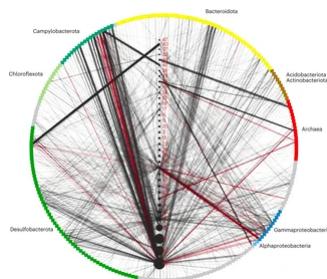


## Focusing in on phage research

### Unraveling microbial mysteries

Our understanding of virus and microbe interactions is changing as we develop better tools to explore the microbiome. In this recent **Nature Microbiology** publication, researchers use ProxiMeta Hi-C to link viral interactions between distant microbes in a deep-sea hydrothermal mat, revealing surprising interactions across microbe domains.

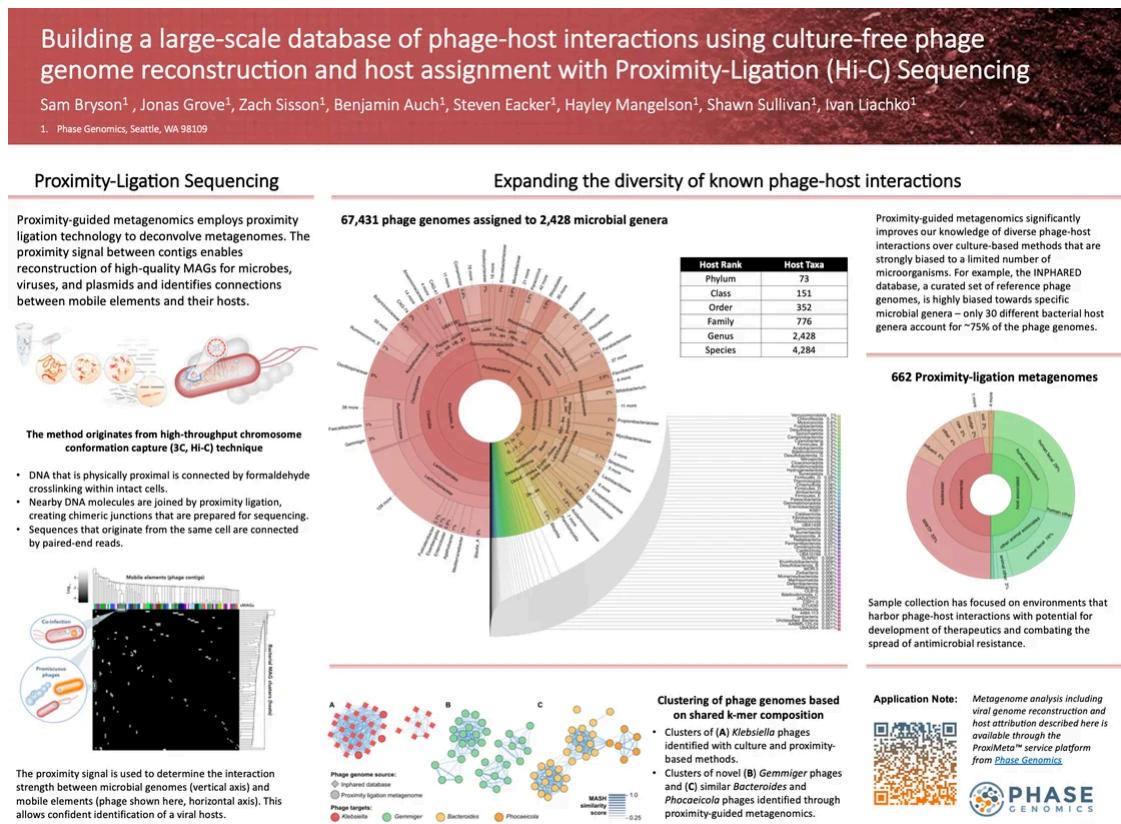
Read the article [here »](#)



### Constructing the next biggest tool in microbial research

One year ago, we started a [global-scale project](#) with funding from the Gates Foundation and the NIH to catalog bacteriophages in human gut and wastewater

samples. Today, we have captured over 67,000 phage-host interactions using these samples that came in from around the world. With this database, we aim to develop new therapeutics, a surveillance system for microbial threats, and more. Stay tuned for further updates and applications involving this project!



## Recent publications

- Catch me if you can: capturing microbial community transformation by extracellular DNA using Hi-C sequencing (read [here »](#))
- A chromosome-scale genome assembly of the grape powdery mildew pathogen *Erysiphe necator* reveals its genomic architecture and previously unknown features of its biology (read [here »](#))
- The soil-borne white root rot pathogen *Rosellinia necatrix* expresses antimicrobial proteins during host colonization (read [here »](#))

## MORE PAPERS

Catch us at a conference

Phase Genomics is on the road! Look for us at these upcoming conferences:

[Evergreen International Phage Meeting](#)

Olympia, WA (Aug 6-11)

[Cancer Genomics Consortium](#)

Saint Louis, MO (Aug 13-16)

[American Society of Human Genetics](#)

Washington, DC (Nov 1-5)

[Association for Molecular Pathology](#)

Salt Lake City, UT (Nov 14-18)

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## Have a project in mind?

### Contact Us

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