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**In This Issue:** New user tools | Upcoming IMG workshop | Genome Insider Season 4 recap | Open proposal calls | Save the date: JGI2024

### Check out these new tools available to JGI users!

#### geNomad



geNomad identifies and classifies mobile genetic elements based upon their gene content and their genetic sequences.

It combines a broad scope, targeting all known groups of viruses and plasmids, and is also optimized for speed. [\[READ\]](#) [\[LISTEN\]](#)

#### HT-SIP



High-throughput stable isotope probing reduced labor to 1/6 the manual process while processing dozens of samples simultaneously.

Applying this method to a type of fungi, researchers ID'd novel interactions between bacteria and the fungi. [\[READ\]](#)

#### iPHoP



Building on existing virus-host prediction approaches, researchers have created a new program called iPHoP — freely available online.

It combines and evaluates multiple predictions to reliably match viruses with their archaea and bacteria hosts. [\[READ\]](#)

### MGM workshop at the end of this month



Want to know more about leveraging our IMG/M data portal? We'll host our next Microbial Genomics and Metagenomics Workshop from **Oct. 23–27** onsite at Berkeley Lab. Attendees will learn all about our workflows for computational analysis and interpretation of sequence data. [Register by Oct. 11!](#)

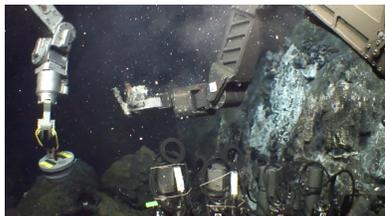
### Genome Insider season 4 recap

### Crops as Tough as World Cup Turf



Grasses do better in warming conditions, with traits that could transfer from grasses into other crops. One grass plant biologist's study is the same species that covered World Cup pitches in 2022. [Click to listen!](#)

### The Busy World of Deep Sea Eruptions



Underwater volcanoes and hydrothermal vents are hot spots on the ocean floor. Hear from researchers sampling these communities to understand how they adapt to this extreme environment. [Click to listen!](#)

### A Shrubbier Version of Rubber



Rubber trees are vulnerable to disease and climate shifts. Learn what researchers find when looking into a potential replacement — a desert shrub native to North America called guayule. [Click to listen!](#)

### Methane Makers in Yosemite's Lakes



Tag along with researchers sampling microbial communities living in the mountaintop lakes of Yosemite National Park to explore methane production. These lakes are isolated, but varied. [Click to listen!](#)

## Open Proposal Calls

Interested in working with the JGI? You can find [details about all of our proposal calls here.](#)

- Our **New Investigator** call, currently open, is for first-time JGI PIs with proposals in synthetic biology, sequencing and metabolomics.
- Our **Functional Genomics** call, also open, focuses on translating genomic information to biological function.
- Check out the most recent crop of **Community Science Program annual awardees here.**



**Save the date: The 2024 JGI Annual Meeting will be held Sept. 30–Oct. 4 at the Walnut Creek Marriott**



**BERKELEY LAB**

