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OCTOBER 2020

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Harnessing Metabolomics to Solve the Gene-Environment Conundrum
Thursday, November 5, 9AM–10AM (PST)

Trent Northen, JGI Metabolomics Program Lead, and **Jenny Mortimer**, Director of Plant Systems Biology at the [Joint BioEnergy Institute \(JBEI\)](#), will discuss how transcriptomic and metabolomic data shed light on gene-environment interactions, and how these resources can be accessed through the JGI's Community Science Program. [Register for free here.](#)



A total of 27 proposals have been **approved** through the 2021 **Community Science Program (CSP)** call from 80 submissions. Accepted proposals emphasize emerging areas of emphasis in algal genomics and secondary metabolites.

Welcome New UEC Members!

The JGI extends a warm welcome to the three new members **newly elected** to the User Executive Committee (UEC). They are (left to right) **Kathleen Greenham** (University of Minnesota), **Matthias Hess** (UC Davis) and **Kristen DeAngelis** (UMass-Amherst), who represent the scientific areas of plant genomics, DNA synthesis and metabolomics.





Imagining/Designing a “Plantiful” Future

Can plants help humans attain a renewable energy future? Can they help lock away more carbon?



In the latest **Genome Insider** podcast, **Xiaohan Yang**, a scientist at Oak Ridge National Laboratory, believes they can. Listen in as he shares how using gene editing technology to manage traits of different plant species will help us get there.

Listen to the show [here](#) and access the episode transcripts. Video teasers are [here](#). Send in your ideas for future topics and interviewees [here](#).

Congrats New Nobelists Doudna & Charpentier!
JGI Nobel Connection



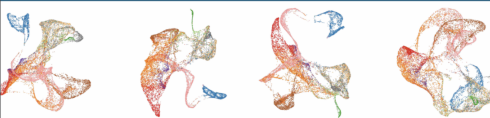
The JGI rejoiced at the recent **announcement** of the **Nobel Prize in Chemistry** being awarded to **Jennifer Doudna** and **Emmanuelle Charpentier** and looks forward to building upon **collaborations** to mine **IMG/M** for novel Cas genes and CRISPR systems.





**PLANT SINGLE-CELL SOLUTIONS
FOR ENERGY AND THE ENVIRONMENT
WORKSHOP REPORT**


Lawrence Berkeley National Laboratory | January 23, 2020

Organizing Committee: Diane Dickel (chair), Ben Cole, Rex Malmstrom, Jenny Mortimer, Chris Mungall, Ronan O'Malley, Axel Visel






Plant Single-Cell Report
Released



KBase

PREDICTIVE BIOLOGY

DOE Systems Biology Knowledgebase



Viral Tools in KBase
Webinar

Wednesday, November 4 |
10AM PST / 1 PM EST

Read about how single-cell technologies applied to plants, fungi and algae are addressing grand challenges in energy and environmental science in this recently-released workshop report. [Read more >](#)

Looking for viruses in your microbiome data? Hear **Ben Bolduc** (above) of The Ohio State University describe the viral genomics pipeline that he and others in long-time JGI user Matt Sullivan's **OSU lab** have been creating with KBase. [Register here >](#)

JGI & EMSL Host AGU User Facility Town Hall



The JGI and the **Environmental Molecular Sciences Laboratory (EMSL)** have joined forces to host a Town Hall at the **American Geophysical Union (AGU) Fall Meeting** entitled, "Collaborate with a DOE User Facility: Learn About Available Expertise and Resources, Open Call Opportunities, and Important Tips for Submitting Successful Proposals," Tuesday, December 1, 10:30AM – 11:30AM PST. [Read more >](#)

