

ADVANCE YOUR SCIENCE WITH THE DOE Joint Genome Institute 2013 USER OPPORTUNITIES AND EVENTS

The U.S. Department of Energy Joint Genome Institute (DOE JGI) is a large-scale genomic user facility dedicated to aiding researchers in sequence-enabled science and the analysis of genomes of microbes, microbial communities, plants, fungi, and other targets relevant to DOE missions in energy, climate, and environment. The DOE JGI provides users around the world with access, at no cost, to high-throughput genomic capabilities and data analysis. These include genome, metagenome, and single-cell sequencing; resequencing; DNA synthesis and transposon mutagenesis; as well as transcriptome, metatranscriptome, and methylome analysis.

Access to Sequencing, Synthesis, and Analysis

Community Sequencing Program (CSP)

Peer-reviewed selection process for massive-throughput sequencing and DNA synthesis for projects of relevance to alternative energy production, global carbon cycling, and biogeochemistry.

CSP Quarterly Microbial/Metagenome Call

Proposals for microbial isolates, single cells, and small-scale resequencing and RNA-seq projects (up to 12 samples), as well as metagenome projects of up to 6 samples and up to 50 Gb for each are accepted continuously and reviewed quarterly. This program will prioritize projects that serve as pilots for future larger-scale CSP proposals.

Technology Development Program (TDP)

Early access to DOE JGI resources for high-impact exploratory projects that push the limits of current technology. Continuous proposal submission.

Visiting Scientist Program (VSP)

Visiting program for faculty-level scientists to leverage DOE JGI experimental, computational, and support resources.

Distinguished Postdoctoral Fellow in Genomics

Recent Ph.D. or equivalent graduates with background in experimental and/or computational genome-relevant sciences are eligible to apply.



<http://1.usa.gov/JGI-programs>

8th Annual Genomics of Energy and Environment Meeting

March 26-28, 2013, Walnut Creek, CA

Presentations, genome informatics tutorials, workshops, and poster sessions on a diversity of topics connected to energy and environmental science: Microbial ecology and bioprospecting; genomic analysis of biofuel crops; single-cell genomics; systems biology; and synthetic biology. <http://1.usa.gov/JGI-2013>



Microbial Genomics and Metagenomics (MGM) Workshops

Five-day workshops combining intensive seminars and hands-on tutorials for the Integrated Microbial Genomes (IMG) system suite of tools for comparative analysis and annotation of prokaryotic and eukaryotic genomes. <http://1.usa.gov/MGM-workshops>



Emerging Technologies Opportunity Program (ETOP)

The objectives of the ETOP are to identify and fund new and existing DOE JGI partners to develop promising projects that will provide users access to state-of-the-art large-scale genomic technologies. For more information about deadlines and proposal submission see: <http://1.usa.gov/JGI-ETOP>



Data Analysis Resources

The DOE JGI provides a suite of premier computational resources for the functional characterization, analysis, and improvement of a vast number of publicly available genomes and metagenomes.

DOE JGI Genome Portal

Sequence downloads, BLAST, annotations for all DOE JGI genomes.

Integrated Microbial Genomes (IMG)

Comparative analysis and annotation of genomes from all domains of life. IMG with Microbiome Samples (IMG/M) for studies of microbial communities. IMG Education Site (IMG/EDU) for training resources. IMG Expert Review (IMG/ER) for functional annotation and curation.

Phytozome

Browse and BLAST plant genomes and proteomes. Study the evolutionary history of plant genes and gene families.

MycoCosm

Data access, visualization, and analysis tools for comparative genomics of fungi.



<http://1.usa.gov/JGI-Data>



DOE Joint Genome Institute 2800 Mitchell Drive, Walnut Creek, CA USA 94598 www.jgi.doe.gov