

Poster #H1

The DOE Joint Genome Institute: A User Facility for Environmental & Energy Genomics

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The mission of the U.S. Department of Energy Joint Genome Institute (DOE JGI), a DOE Office of Science User Facility operated by Lawrence Berkeley National Laboratory, is to advance genomics in support of the DOE missions in bioenergy, carbon cycling and biogeochemistry. The Community Science Program (CSP) provides the scientific community access to high-throughput sequencing, computational analysis, DNA design and synthesis, and metabolomics for projects of relevance to DOE missions. In addition to the CSP, we have established collaborative programs with the Environmental Molecular Sciences Laboratory (EMSL) at the Pacific Northwest National Laboratory (PNNL) for molecular characterization and the National Energy Research Scientific Computing Center (NERSC) for computational capacity. We also partner with external groups through the Emerging Technologies Opportunity Program (ETOP) to develop cutting-edge technologies that can be translated to a high-throughput production environment for the larger scientific community. The DOE JGI has made significant contributions in environmental system science and continues to evolve as a state-of-the-art genomic science user facility.

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