

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

Susannah Tringe,^{1*} David Gilbert¹, Nigel Mouncey¹

¹DOE Joint Genome Institute, Lawrence Berkeley National Laboratory, Berkeley, CA

Contact: sgtringe@lbl.gov

Project Lead Principal Investigator (PI): Nigel Mouncey

BER Program: User Facility

Project: User Facility

Project Website: <http://www.jgi.doe.gov>

Project Abstract:

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 joint calls with other DOE user facilities through the Facilities Integrating Collaborations for User Science (FICUS) program. These include collaborative programs with the Environmental Molecular Sciences Laboratory (EMSL) at the Pacific Northwest National Laboratory (PNNL) enabling molecular characterization and imaging in concert with genomics and with the National Energy Research Scientific Computing Center (NERSC) providing computational capacity and expertise. The DOE JGI has made significant contributions in environmental system science, particularly in the molecular microbial ecology of diverse terrestrial environments, and continues to evolve as a state-of-the-art genomic science user facility.