GREAT LA BIOEN RESEARCH	A K E S E R G Y C E N T E R	

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The LIMS Fermentation Experiment Manager. The default view shows the layout (time points and multi-omics samples) of an experiment that is being planned.

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The fermentation experiment has been started and sample collection is in progress. Samples have been collected for the first 8 time points.

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The same experiment has been completed. The sample collection is finished for all the planned time points.



The dashboard of Fermentation Experiment Data & File Viewer. The colored dots indicate the status of multiomic sample analyses.





LIMS and Bioinformatics Support for the **GLBRC Seed-to-Biofuels Research Pipeline**

Ying Gao, Yury V Bukhman, LiRong Tao, Haseeb Amjad, Oliver Dutta, Laura Fahrney, Wen Goh, Adam Halstead, Matthew Larson, Richard LeDuc, Xixi Luo, James McCurdy, Dirk Norman, Peggy Pan, Kelley Shaffer, Jason Shao, Ashley Shillinger, Nicholas Thrower, Branden Timm, Mike Whitney, Enhai Xie, *Zheguang Zhao*, Curtis Wilkerson, David Benton

The Great Lakes Bioenergy biomass-to-biofuels pipeline encompasses procedures to grow, harvest, analyze, and process biomass to produce hydrolysates, which are subsequently microbially fermented to produce fuels and chemicals. The Informatics and Information Technology Group has developed systems to support this pipeline from seed to fermentation and the multi-omic analysis of samples from it. A Laboratory Information Management System (LIMS) supports planning experiments, tracking experimental materials and samples, and collecting raw experimental data. These data are accessed by scientists who analyze them using a variety of tools, many of which are hosted on a Galaxy server. The processed and analyzed data are then housed in the Great Lakes Omics Warehouse (GLOW), where they are available to all Center researchers.



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We are developing a Genome Suite for storing, displaying and interacting with genomic sequence, annotations & experiments.

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<u>IIT B08, Bukhman Fox</u> <u>Ctherm 1</u>	Point of Contact: Yury V Bukhman. Point of Contact E-Mail: ybukhman@glbrc.wisc.edu. Experiment ID: [] Goal: Bioprospecting - find genes differentially expressed in different growth conditions by a cellulolytic organism. Description: Global Gene Expression Patterns in Clostridium thermocellum as Determined by Microarray Analysis of Chemostat Cultures on Cellulose or Cellobiose. Organisms: Clostridium thermocellum. Strains: ATCC 27405. Media: Chemostat growth on cellulose or cellobiose at different dilution rates.	Clostridium thermocellum , Microarray , Chemost: Cellulose , QC
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<u>ChIP-chip in</u> <u>hydrolysate - Pilot</u> <u>study</u>	Point of Contact: Jeff Grass Point of Contact E-Mail: jagrass@wisc.edu Experiment ID: [enter any external identifier such as REDIME EXP137] Goal: [describe why the experiment was conducted] Description: [describe the design of the experiment, and the nature of the data collected.] Organisms: [identify which organisms were used in the study.] Strains: [further identify the strains used.] Media: [text description.] Point of Contact: [Yury Bukhman] Point of Contact	E. coli , MSB482_MG1655_pPET , Standard Nimbl Protocol
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