Lawrence Berkeley National Laboratory

Recent Work

Title
Genome Annotation at JGI

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Four phytoplankton genomes – *Chlamydomonas reinhardtii*, *Thalassiosira pseudonana*, *Phaeodactylum tricornutum*, *Ostreococcus* - have been sequenced and are annotated at the DOE Joint Genome Institute (http://genome.jgi-psf.org). Differences in genome organization and gene structure, variety in available data like ESTs and proteomics to support and validate gene predictions create additional challenges in annotation of these genomes. To address them we have developed JGI annotation pipeline that allows us to annotate these genomes in high-throughput but genome-specific way. The pipeline integrates a suite of new and improved gene prediction methods and annotation methods, tools for validation and consolidation of various gene models, and tools for visual analysis.