Faculty Name: Igor Grigoriev

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**Department/Organization** Affiliation: Plant and Microbial Biology/UCBerkeley and Joint Genome Institute (JGI)/Lawrence Berkeley National Lab

**Preferred Method of Contact:** email

**Project Name(s):** Exploring fungal diversity using computational and single cell genomics

**General Topic (Keywords):** Comparative genomics, single cell genomics, fungi, cryptomycota, assembly, annotation, comparative analysis

**Project Description(s):** The US Department of Energy Joint Genome Institute (JGI) is world leader in genome sciences of plants, fungi, other microbes and their interactions. The newest tools and approaches adopted by JGI include single-molecule long read sequencing platforms, computational algorithms and pipelines for genome analysis, and single cell genomics for sequencing unculturable organisms. As the part of this project you can contribute to developing new tools and techniques (computational or wet-lab) for analysis of new fungal data collected from different ecological niches and environmental samples. The work will be performed in Fungal Genomics Group (jgi.doe.gov/fungi) at JGI in Walnut Creek, CA

**Desired Skills or Experience:** (i) bioinformatics skills; (ii) programming experience with python, perl or other languages, (iii) some experience with PCR and other molecular biology lab techniques.

**Time Commitment:** 3+ months

**Preferred Starting Date:** Spring-summer 2016