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MycoCosm, an Integrated Fungal Genomics Resource

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MycoCosm is a web-based interactive fungal genomics resource, which was first released in March 2010, in response to an urgent call from the fungal community for integration of all fungal genomes and analytical tools in one place (Pan-fungal data resources meeting, Feb 21-22, 2010, Alexandria, VA). MycoCosm integrates genomics data and analysis tools to navigate through over 100 fungal genomes sequenced at JGI and elsewhere. This resource allows users to explore fungal genomes in the context of both genome-centric analysis and comparative genomics, and promotes user community participation in data submission, annotation and analysis. MycoCosm has over 4500 unique visitor/month or 35000+ visitor/year as well as hundreds of registered users contributing their data and expertise to this resource. Its scalable architecture allows significant expansion of the data expected from JGI Fungal Genomics Program, its users, and integration with external resources used by fungal community.

MycoCosm is described as a featured article in the next database issue of Nuclear Acids Research (Grigoriev et al, NAR, 2011).

Henrik Nordberg, Roman Nikitin, Mike Cantor, Susan Hua, Sergei Dushchko, Tatjana Siminova, Igor Ratner, Andrey Voloshin, Oleg Alexandrov and Inna Dubchak participated in development of MycoCosm.