

## Open Ph.D. projects

**Announcer:** László Nagy

**Doctoral School:** University of Szeged, Faculty of Science and Informatics, Doctoral School of Biology

**Title of the research topic:** Functional and comparative genomics of biotechnologically important fungal traits

**Description of the research topic:** Fungi are among the most widely used industrial workhorses and possess many metabolic abilities (e.g. lignocellulose degradation), enzymes or other proteins with a great potential in biotechnology. Our lab is interested in evolutionary and functional characterization of such fungal traits, with special emphasis on the application of high-throughput -omics technologies. PhD candidates joining the lab will have the opportunity to learn cutting edge bioinformatic, -omics (e.g. genomics, transcriptomics) and functional assays and work on top notch projects in fungal genomics, in a young and dynamics research group. Projects include, but are not restricted to, gene regulatory network reconstruction of lignocellulose-degradation (with applications in biofuel industry) and multicellularity, the development of bioinformatic methods for studying the genome evolution, phylogenomics or understanding the evolution of complexity.

