Jena School for Microbial Communication
Graduate School of Excellence

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Title PhD Project: Combinatorial effects in the heavy metal resistance of streptomycetes

Main Research Interests

- Heavy metal resistance mechanisms in streptomycetes
- Alteration of the secondary metabolism of streptomycetes under heavy metal stress
- Effects of co-cultivation on the secondary metabolism of streptomycetes

Methodological Experiences

- Isolation and cultivation of soil-dwelling microbes
- Basic molecular techniques like DNA extraction, PCR and gel electrophoresis
- Techniques for studying the infection of plant roots by mycorrhizal fungi

Curriculum Vitae

- Since 2013: PhD student at Institute of Microbiology – Microbial Communication
- 2010-2013: Studies of Biogeosciences, Master's degree (M. Sc.) at Friedrich-Schiller-University of Jena, Master thesis at Institute of Microbiology under supervision of Prof. Dr. Erika Kothe
- 2007-2010: Studies of Biogeosciences, Bachelor's degree (B. Sc.) at Friedrich-Schiller-University of Jena, Bachelor thesis at Institute of Geosciences under supervision of Prof. Dr. Georg Büchel

Publications

- Funai, B. (2013): Microbially assisted phytoremediation of a heavy metal contaminated soil. Master thesis, Friedrich-Schiller-University Jena.