

# Laboratory for Mycology - ProFungi Laboratory – Professionally for the Fungi

*Fungi, Biodiversity, Medicinal, Culture, Cultivation*

Laboratory for Mycology **ProFungi** comprises research in the field of mycology on the following research topics: Biology and ecology of fungi: Diversity and protection of fungi, Bioactive metabolites from fungi, Medicinal fungi, Fungi in cultural heritage, Mycomonitoring and mycoremediation, Molecular identification of fungi, Population genetics, Phylogeny of fungi, Commercial cultivation of fungi. **ProFungi** Laboratory aims to further enhance the research in terms of diverse fields of mycology and intensify collaboration with various institutions and organizations in the region as well as global universities. The Laboratory is involved in planning the management and participation in local and international projects. Furthermore, one of the important objectives of the Laboratory for Mycology **ProFungi** is maintenance and development of the existing fungal culture collections which currently comprise 129 autochthonous fungal isolates belonging to two different phyla (Basidiomycota and Ascomycota) and about 70 isolates of molds and 340 exsiccates of macrofungi within the Herbarium BUNS, the Department of Biology and Ecology.



## COLLABORATIONS

- University of Belgrade, Serbia, Faculty of Chemistry, Chair of Analytical Chemistry
- University of Belgrade, Serbia, Faculty of Biology, Chair of General Physiology and Biophysics, Institute of Physiology and Biochemistry
- University of Palermo, Italy, Scienze Agrarie, Alimentari e Forestali
- University of Bologna, Italy, Dipartimento di Scienze e Tecnologie Agro-Alimentari – DISTAL – Alma Mater studiorum Università di Bologna
- Bialystok University of Poland, Bialystok University of Technology, Politechnika Białostocka, Faculty of Forestry in Hajnowka

## CONTACT PERSON

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## SELECTED PROJECTS

**Title:** *Bio-sensing Technologies and Global System for Continuous Research and Integrated Ecosystem Management, III43002*

**Type:** Ministry of Education, Science and Technological Development of the Republic of Serbia

**Duration:** (2010-2015/2016/2018/2019)

**Contact person:** Dr Maja Karaman

**Title:** *Fungi Database Creation as a Basis for Preserving their Biodiversity*

**Type:** Provincial Secretariat for Science and Technological Development

**Duration:** (2013- 2014)

**Contact person:** Dr Maja Karaman

**Title:** *Novel Antimicrobial Agents in Pathogenic Control –*

**Type:** IPA project HUSRB 1203/214/250

**Duration:** (2012-2013)

**Contact person:** Dr Maja Karaman

## SELECTED EQUIPMENT

- growth chamber (BINDER, Austria),
- incubator shaker (IKA KS 4000i, Germany),
- freeze-dryer (lyophiliser) (CHRIST ALPHA 2-4 LDplus Freeze Dryer, Germany),
- equipment for molecular-biological analysis (horizontal and vertical electrophoresis system, gel documentation system and thermal cycler, Biometra),
- rotary evaporator (BUCHI Rotavapor R-210, Switzerland)