

Laboratory for Plant Systematics and Phytogeography - LaPSyPh

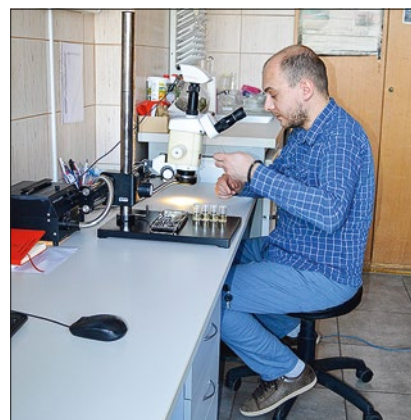
taxonomy, flora, vegetation, macrophytes, bryology

With a 70-year-old tradition of research, the Lab is today oriented towards plant taxonomy and phylogeny, research of flora and vegetation, and bryology. The Lab focuses on taxonomy and phylogeny of selected plant taxa, infra- and intraspecific variations, as well as revealing of adaptive mechanisms. The aim is to resolve systematic problems of critical taxa and aggregates using methods of morphometry (linear and geometric), phytochemistry and cytotoxicity. Researchers are dealing with natural resources, primarily medicinal plants, and searching for molecules that can be used in chemotaxonomy and as novel pharmaceutical components. Floristic and ethnobotanical studies are carried out in Serbia and Balkan Peninsula, mainly in Montenegrin coastal region. The second centre of interest is aquatic, sand, steppe and forest flora and vegetation, as well as floristic research of mosses. Methodology that is used in research of aquatic vegetation is based on continuum/gradient concept, which is in line with The Water Framework Directive 2000/60/EC and standard methods. Sand and steppe vegetation are studied using classical phytocological methodology and modern software for data analyses.



COLLABORATIONS

- Biotechnical Faculty, University of Ljubljana, Ljubljana, Slovenia
- The Faculty of Biology, Belarusian State University, Minsk, Belarus
- Academy of Science and Arts of Slovenia, Ljubljana, Slovenia



SELECTED PROJECTS

Title: *Plant diversity of Serbia and Balkan peninsula - assessments, sustainable use and protection*

Type: National

Duration: 2011-

Contact person: Dr Goran Anačkov

Title: *Biosensing Technologies and Global System for Long-Term Research and Integrated Management of Ecosystems*

Type: National

Duration: 2011-

Contact person: Dr Saša Orlović

Title: *"Data for red lists/red books and ecological network of Serbia"*

Type: National

Duration: 2016-2019

Contact person: Dr Goran Anačkov

SELECTED EQUIPMENT

- Encoded stereo microscopes Leica M205C with Leica camera DFC290 HD and LAS V4.11 software
- Microscope Zeiss with Axio Imager.A2
- Thermal Cycler Applied Biosystem 2720
- Electrophoresis equipment Bio-Rad

CONTACT PERSONS

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https://www.dbe.uns.ac.rs/o_departmanu/laboratorije/sistematika_visih_biljaka_i_fitogeografija