

Botanical Institute of the CAS

Botanický ústav AV ČR, v. v. i.

The Třeboň's department was established in 1971 in a location ideal for the study of wetlands. Nowadays, we are researching various endangered ecosystems, studying the influence of changing environmental factors on the growth, body structure and function of underground plant organs not only in our country, but all over the world. We are developing one of Europe's oldest collections of microorganisms and maintaining a unique collection of aquatic and wetland plants. The department includes an analytical laboratory, an anatomical and dendrochronological laboratory and a library.

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Services

Services for private sector:

- analysis of surface and groundwater, analysis of soil samples and plant material
- dendrochronological analyses with a focus on forest ecosystems
- we offer strains of cyanobacteria and algae, culture media and other services
- we offer aquatic and wetland plants for basic and applied research

Services for public sector:

- surface and groundwater analysis
- analysis of soil and plant material samples
- dendrochronological analyses with a focus on forest ecosystems
- we offer strains of cyanobacteria and algae, culture media and other services
- we offer aquatic and wetland plants for research, conservation cooperation and the provision of rescue cultures of endangered plants

Equipment / infrastructure

The analytical laboratory uses the following analysers with computer data output:

- IC cation version with autosampler (Metrohm)
- Lachat QC 8500 automatic injection analyzer - three-channel FIA system
- FIA STAR 5012 flow injection analyser with spectrophotometric detection
- Dionex ICS-3000 Ion Chromatography System
- TOC analyzer SKALAR FormacsHT and SKALAR PrimacsMCS

The Dendrochronology Laboratory has complete equipment for the preparation and measurement of forest tree samples, including the software required for the analysis of forest tree data.

Best practices / case studies of cooperation

Agency for Nature and Landscape Protection of the Czech Republic

- cooperation on the level of landscape care, maintenance of rescue cultures of endangered plants and their repatriation to alternative habitats.

City of Třeboň

- water quality monitoring based on the requirements of the Environmental Commission of the Třeboň City Council

ENKI, o.p.s.

- cooperation in sample analyses

Keywords

Analysis of water, soil and plant material, dendrochronological analysis, provision of cyanobacteria and algae cultures, provision of plants for research, cooperation in nature and landscape conservation