EVOLUTIONARY ECOLOGY

Přírodovědecká fakulta
Faculty of Science

BIOLOGY CENTRE CAS

Explore plant-herbivore interactions from the perspective of astonishing diversity of plant metabolites.
Reveal the origins and ecological functions of the thousands of specialized metabolites that plants produce.

More than 200,000 specialized metabolites have been described so far and probably many more remain undiscovered. Many of these metabolites defend plants from insect herbivores or protect them from adverse abiotic conditions. But their seemingly excessive diversity has puzzled ecologists for decades.

Our goal is to understand the eco-evolutionary mechanisms underlying the patterns in plant chemistry along ecological gradients in abiotic stress and pressure by herbivorous insects.

Join my research team!
I am young PI who received his PhD in 2016. After a 2-year postdoctoral stay at iDiv in Germany, I established my research group at Biology Centre CAS where I aim at connecting ecology with metabolomics.

My team includes 4 PhD students and several enthusiastic undergraduate students.

Contact:
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Master´s research project 2024-2026:
Metabolomic diversity of hybrid plants in natural communities

Enroll in the new two-year Masters Programme **Functional Genetics & Bioinformatics** at Faculty of Science, University of South Bohemia in České Budějovice, Czech Republic.

Offered specializations:
- **Bioinformatics**
- **Biotechnology**
- **Human Molecular Genetics**
- **Molecular Cell Biology & Genetics**

Application deadline: **19 May 2024**
Study start: **September 2024**

Find more information **HERE**