MITOCHONDRIA OF PROTISTS





The saying "mitochondria are the powerhouses of the cell" seems to be as common as the organelle itself, which is found throughout all eukaryotes (including animals, plants and mushrooms). However, it is the small sub-compartments called cristae that make mitochondria the powerhouse as it is they that allow cells to breathe, which generates energy to keep the cell alive.

Our goal is to understand the molecular mechanisms underlying the genesis of cristae that are common to all eukaryotes. This employs lots of sophisticated imaging and "omics" methods to understand how protein complex assembly and membrane lipid remodeling are coordinated to make cristae in the model protists *Trypanosoma brucei* and the ciliate *Tetrahymena*.



Join my research team!

I am an experienced researcher who has proudly supervised several Masters students since 2009. My proudest accomplishment is helping these students to achieve their goals in science, academia and beyond.

My team includes 1 senior researcher, 1 PhD student and two enthusiastic undergraduate students. We also like to collaborate with other groups!

Contact:

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Master's research project 2024-2026: How to make room to breathe: Molecular factors involved in mitochondrial crista development

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:

- **o** Bioinformatics
- Biotechnology
- **o** Human Molecular Genetics
- Molecular Cell Biology & Genetics

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

Find more information **HERE**