# **INSECT IMMUNOMETABOLISM**





Explore the fascinating world of immune cells. Gain deeper insight into the biology of macrophages.

While research of macrophages initially focused on their role in immune response, emerging evidence suggests that these cells perform a plethora of diverse roles.

We explore the cellular metabolism of insect immune cells and their impact on systemic metabolic setup during infection, nutritional imbalances and other stress responses. Ranging from the research of immunometabolism to developing novel delivery tools into phagocytes, we take advantage of an excellet model, the fruit fly *Drosophila melanogaster*, which offers unique genetic tools for tissue- and timespecific genetic manupulations.



### Join my research team!

We are particularly passionate about imaging of immune cells, employing techniques such as confocal or electron microscopy but we use all common molecular biology methods.

I try to keep my team relatively small, which allows more senior researchers to devote a lot of care to junior students.

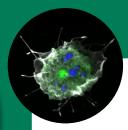
#### Contact:

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#### Master's research project 2024-2026:

Infiltration of macrophages into adipose tissue under stress conditions

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

Application deadline: 19 May 2024 Study start: September 2024

Find more information **HERE**