

We invite you to the seminar of



Julie Kovářová, Ph.D.

**Institute of Parasitology, Biology Centre of the Czech Academy
of Sciences, České Budějovice**

“Using metabolomics to reveal novel biology in trypanosomatid parasites”

I will demonstrate different examples how LC-MS metabolomics can be used to address specific biological questions, here applied to human parasites trypanosomes and leishmania. Contrary to previous dogma, I discovered presence of gluconeogenesis in the mammalian-infective form of *Trypanosoma brucei*, which is especially relevant for adipose tissue resident parasites. In leishmania, I characterised phenotype observed after disruption of the pentose phosphate pathway, and demonstrated that it is essential for infection. In order to control leishmaniasis, we need to understand the interaction between the parasite and the host macrophage, which I want to focus on in the future.

Dr. Kovářová is a candidate for the position
of a research group head at IMG.

The seminar will be held

on Monday 28th November 2022 at 11:00

in the Milan Hašek Auditorium at IMG

(Institute of Molecular Genetics of the Czech Academy of Sciences, Vídeňská 1083, Prague 4)

Petr Dráber, Ph.D., DSc.
Director of the Institute