



IPHYS Laboratory of Molecular Physiology of Bone

Czech Academy of Sciences
Biomedical Research Campus in Prague, Krč

IPHYS is a leading research institute in the field of normal and pathological physiology. It consists of a number of scientific and service departments and shared equipment for the research (<http://www.fgu.cas.cz/en/>).

The **Laboratory of Molecular Physiology of Bone** led by Dr. Michaela Tencerova is focused on studying the physiological role of bone marrow adipose tissue in relation to bone and fat metabolism in metabolic complications (<https://www.fgu.cas.cz/en/departments/laboratory-of-molecular-physiology-of-bone>).

The research continues work on our previous studies identifying unique metabolic phenotype of bone marrow adipocytes comparing to peripheral adipose tissue in obesity with a focus on specific targets in the regulation of bone marrow homeostasis (Tencerova et al, *Cell Reports*, 2019; Tencerova et al., *Bone Res*, 2019; Tencerova et al., *JBMR* 2018). The successful applicant will work in the international and friendly environment. The research project will include the work with murine and human cellular systems (bone marrow stromal stem cells) and animal transgenic models applying high-throughput methods such as RNA sequencing, metabolomics, lipidomics, and bioenergetics. The research will be conducted in collaboration with prestigious national and international laboratories in USA and Europe and supported by EFSD/NovoNordisk grant.

We are recruiting highly motivated scientist on:

Postdoctoral position in Molecular Physiology of Bone

Responsibilities:

- Independent leading project
- design of experiments and their interpretation and presentation
- data analysis
- Learning new methods
- Teamwork, helping colleagues with other projects

Position Requirements:

- PhD degree (with up to 8 years from PhD) in molecular biology, biochemistry, physiology, medicine, or related disciplines
- Motivation to do science, curiosity and thinking outside of box
- Advanced experience with molecular biology techniques, *in vitro* cell culture methods, cloning, CRISPR technology, animal work (metabolic assays, drug administration etc.) Basic command of English, PC literacy

- track record of scientific publications, capability of working in international team, great level of English in written and spoken form

We Offer:

- Working in creative international environment
- Competitive salary
- Social benefits (e.g. health insurance, language courses, subsidized lunches, kindergarten, institutional lodging house)
- 6 weeks holiday + 3 sick days

Expected Appointment Start Date: Negotiable

Required Documents:

- Cover Letter
- CV (including the list of publications)
- References

to be sent by the applicant to the contact below by **31.5.2023** or until we find a right candidate.

Contact: M.Sc. Michaela Tencerová, Ph.D. michaela.tencerova@fgu.cas.cz