



CHARLES UNIVERSITY

First Faculty of Medicine

Department BIOCEV

Průmyslová 595, 252 50 Vestec, Czech Republic

Head: Prof. Tomas Stopka MD, PhD

Open Position – PhD student

The **Leukocyte Motility Lab** of the First Faculty of Medicine, Charles University located in BIOCEV seeks motivated PhD students to join our newly established research team.

Project

Immunity depends on leukocyte ability to rapidly migrate within lymphoid organs and peripheral tissues. We will work at the interface between cell biology and immunology and study how leukocytes distinguish various environmental cues and interpret them in their migratory behavior. Our primary focus are mechanical aspects – we want to understand how leukocytes recognize physical stress, overcome obstacles or navigate in topologically complex environments. To this end, we will use microfabrication and live cell imaging.

For more insight please see:

- <https://www.biocev.eu/en/research-program/cellular-biology-and-virology.4/leukocyte-motility.66>
- Cellular locomotion using environmental topography. Nature. 2020 Jun;582(7813):582-585.
- Chemokines and integrins independently tune actin flow and substrate friction during intranodal migration of T cells. Nat Immunol. 2018 Jun;19(6):606-616.

We are looking for dedicated candidates interested in cell biology, cell migration, cytoskeleton, immunology and microscopy.

Applicants are expected to apply for a doctoral program at the Faculty of Science at Charles University by the end of December 2020. See:

<https://www.natur.cuni.cz/eng/study/applicants/ph.d.-study>

Positions are open from January 2021.

We offer an opportunity to work in a newly established research group within the BIOCEV with its exceptional core resources and equipment.

Contact

Applicants are encouraged to provide a brief CV with summary of recent work to Miroslav Hons, PhD (miroslav.hons@lf1.cuni.cz)



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