The Laboratory of Molecular Mechanisms in Blood Diseases

at the Institute of Pathological Physiology (PatFyz)

is looking for

**Motivated Ph.D. student**

in the field of medical molecular biology

**Lab at a glance:** Our research activity is focused on the understanding of molecular mechanisms in human B-cell leukemia in relation to microRNA.

**Current research aims:** Elicit how deletion of oncogenic, hypoxia miR-155 and CDKs in CLL cells affect cell proliferation, cell cycle dynamics under normoxia vs hypoxia conditions. To describe changes in the transcriptome, miRnome and metabolom of miR-155 deficient CLL cells.

**Methods:** Gene editing (CRISPR/Cas9), Gene expression analysis (mRNA, miRNA), Sequencing (mRNA, miRNA), Proteomics (WB, MS), Coy hypoxic glove box and other (cell sorting by FACS, Image cytometry, Fluorescence microscopy,...).


In case of your interest, please contact:

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