



Doctoral Fellowship

PhD Fellowships in the field of infectious diseases

Two PhD positions are available at **The Laboratory of Biomedical Microbiology and Immunology (LBMI)**, <http://lbmi.uvlf.sk>, **University of veterinary medicine and pharmacy in Kosice, Slovakia**.

The positions are linked to the project - "Development of strategic therapeutics against neuroinfections" and "Development of therapeutic biomolecules against SARS-CoV-2" financed by Slovak Research and Development Agency (APVV). The goals of PhD research will focus on one of the following areas:

1. Development of aptamer based therapeutics against pathogens (PhD fellow can select any of the following – SARS-CoV2, Dengue virus, West Nile virus).
2. Development of nanobodies and dendrimers against Lyme disease causing *Borrelia*.

PhD fellow will have opportunity to work on state-of-the art techniques like Mass spectrometry based mapping of ligand-receptor interactions, RNA sequencing, synthesis of single domain antibodies (nanobodies), anti-microbial peptides, protein and VLP expression, production of in vitro 3D blood-brain organoids etc.

Desirable profile of candidate

- We look forward for highly motivated and ambitious post graduates who wish to flourish their research carrier by perusing a PhD in neurosciences or PhD in biomedical microbiology. You should have
- Master's degree in biology, biomedical sciences, biochemistry, neuroscience or related disciplines.
- good theoretical and on microbiology or molecular biology (practical knowledge will be desirable but not mandatory)
- good scientific communication skills: oral and written
- interest in research and ambitions to continue career in infectious diseases
- willingness to work in team and international environment.

About us

The Laboratory of Biomedical Microbiology and Immunology (<http://lbmi.uvlf.sk>) is an output of two organizations - University of veterinary medicine and pharmacy in Košice and Institute of Neuroimmunology, Slovak academy of science, collaborating to attain the common goal of establishing a sophisticated research unit in the field on immunoproteomics.

Since its foundation in 1996, the LBMI is assuring excellence in research and education. The research activities of the LBMI have focused on exploring host-pathogen interactions of neuroinvasive human pathogens like *B. burgdorferi*, *N. meningitidis*, *Streptococcus pneumoniae*, *Francisella Sp.* West Nile virus and Tick-borne encephalitis virus to intervene in their early pathogenesis. Since 2020, LBMI has initiated Slovak National project (APVV) on COVID 19 to reveal molecular interaction of COVID19 and various host cells and interfere in virus uptake/early pathogenesis.

What we offer

- Researchers will be trained on cutting edge technologies within the scientifically stimulating working environment
- Opportunity to disseminate their research in international conferences every year
- Funding for 4 years – 1000 euros per month.

Application instructions

Please send your curriculum vitae to mangesh.bhide@uvlf.sk and bhidemangesh@gmail.com along with cover letter. We will arrange informal interview via zoom or skype.

Start of the PhD study – 1.9.2022