

# Postdoctoral Position

One post-doctoral position is available in the laboratory of biomedical microbiology and immunology, Department of microbiology and immunology, University of veterinary medicine and pharmacy in Kosice. The duration of post-doctoral fellowship is 18 months in the first stage. **Start of the fellowship is 1.7.2019.**

*If candidate proves good experimental skill and ability to work independently during the first 18 months, the position will be continued for next 18 months.*

The position is linked to the project entitled “Development of strategic therapeutics against selected vector-borne neuroinfections”, financed by Slovak Research and Development Agency (APVV-18-0259). Here the focus is to increase the knowledge of the pathogenesis of neuroinfections by the use of molecular methods with the aim to come up with new therapeutic strategies (single-domain antibody, nanobody).

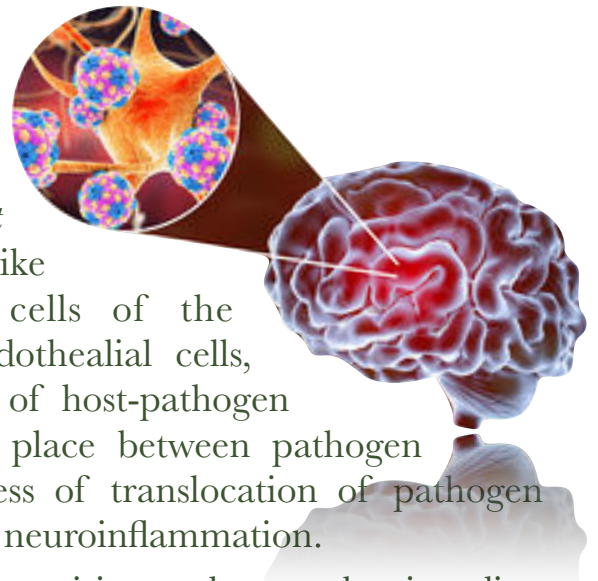
## Area of research

Several pathogen species have been shown to be the common causes of CNS infections (e.g. *Neisseria meningitidis*, *Borrelia burgdorferi*, *West Nile Virus*, *Tick-borne encephalitis* or parasites like *Trypanosoma* etc.). Reports suggest that cells of the neurovascular unit (barin microvascular endothelial cells, glial cells and astrocytes) are the major sites of host-pathogen interactions. A plethora of cross-talk takes place between pathogen ligands and host receptors during the process of translocation of pathogen across the blood-brain barrier and subsequent neuroinflammation.

Blockage of ligand-receptor interactions is a promising tool to combat invading pathogens and to avoid deleterious consequences of inflammation. One of the best ways to achieve such blockage is the use of blocking-peptides or antibodies raised against pathogen ligands. Single domain antibodies (sdAbs), commercially named Nanobodies, can be engineered and used effectively for this purpose.

The work of the post-doc will be focused on development of nanobody/anti-viral peptide based nanoparticles to cross the blood-brain barrier.

**Contact -**  
**Doc. Mangesh Bhide**  
**Phone - 0915 984 604**  
**bhidemangesh@gmail.com**  
**University of veterinary**  
**medicine and pharmacy in**  
**Kosice**



We search for a motivated and hardworking candidate with enthusiasm for research that has an ability for team work and independent research.

### **Qualifications and personal qualities**

- The applicant must hold a PhD degree within one of the following disciplines - biology, molecular biology, immunology, microbiology or biochemistry. Applicant who have submitted their doctoral thesis can also apply if the defense is expected before 15th May. 2019.
- Experience from experimental techniques in molecular biology is necessary
- Experience with bacteriological and immunological methods will be an advantage.
- Good communicative skills in both written and oral English are necessary.

**We would prefer to receive your application by 15th of May 2019,**

### **Your application should include:**

- Complete CV,
- List of publications (in peer reviewed journals and conferences)
- one reference letters with contact details of referee.
- Send you application to both mail addresses - [bhidemangesh@gmail.com](mailto:bhidemangesh@gmail.com) and [mangesh.bhide@uvlf.sk](mailto:mangesh.bhide@uvlf.sk)