

NEW PHD POSITIONS AT THE EÖTVÖS LORÁND
UNIVERSITY IN OUR
INSTITUTIONAL EXCELLENCE PROGRAM



The **Diagnostics and Therapy** program announces a new possibility to join our dynamic research teams in many different areas (see below). These fellowships are supported by the Hungarian state as well as by our **INSTITUTIONAL EXCELLENCE PROGRAM**. Outstanding scientists are searching for interested students who possess an European Union citizenship (one of the 27 countries being part of the European Union) who have obtained an MSc degree, who have some previous experience in relevant fields, and who have interest also in pursuing applied research. Specifically, we are looking for candidates with background in chemistry, neurobiology, molecular and plant genetics, behavioural sciences and informatics. Students need also to provide documents on advance English skills.

Studentships start in September 2019 and last for 4 years.

If you are interested in studying in Budapest, currently one of the most attractive and lively cities in the heart of Europe, and you believe that you have a competitive CV and the necessary motivation then do not hesitate to send a letter with the following information as soon as possible.

(1) Europass CV; (2) The title and short abstract of your MSc Thesis; (3) document proving your English skills; (4) expression of preference for one of the topics listed below. Please merge all documents into one pdf file and send it to the email: director@ttk.elte.hu

The best candidates are selected for interview, and we have the possibility to offer around 9-10 PhD fellowships this year, and this announcement is open until all positions are filled (end of June latest).

We are looking forward to meeting you in Budapest!

Professor Ádám Miklósi,
Leader of the **INSTITUTIONAL EXCELLENCE PROGRAM on Diagnostics and Therapy**, Head of Institute of Biology

We are looking for candidates interested in the **following topics** (More specific discussion about the actual research will take place only with selected applicants):

- Preparation and characterization of soft nanocapsules for diagnostic and therapeutic purpose
- Continuous monitoring of behaviour in pharmacologically and chemogenetically-induced animal models of psychiatric disorders
- Development of a novel multi-electrode array (MEA) system to allow long-term pharmacological assessments of electrically active cell cultures
- *De novo* assembly and annotation of a labyrinth fish genome

- Remote monitoring and automated reporting of human behaviour
- Nutrient element allocation to edible and forage plant tissues
- Immunodetection of sensitisation to mycobacteria and tailoring host cell specific delivery and bioavailability of antimyco-bacterial compounds
- Identification and functional characterisation of diagnostic epitopes and molecular mimics in mycobacterial infection
- Tailoring host cell specific delivery and bioavailability of antimycobacterial compounds using peptide decorated nanocarriers
- Targeting tumor stem cells in central nervous system using peptide decorated nanocarriers
- Usage of automatic motion analysis in screening of developmental disorders and skill-development in children
- Analyzing HIV data from Hungary