HUN-REN RESEARCH CENTRE FOR NATURAL SCIENCES
INSTITUTE OF MOLECULAR LIFE SCIENCES

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MTA
Kiváló Kutatóhely

Student training position in bioinformatics

Location: HUN-REN Research Centre for Natural Sciences (RCNS), Institute of Molecular Life Sciences, Budapest, Hungary, or Remote
Research group: DNA Repair Research Group
Supervisor: Istvan Szepesi-Nagy, e-mail: szepesi-nagy.istvan@ttk.hu
Group leader: Dr. Gergely Rona, e-mail: rona.gergely@ttk.hu
Lab website: www.ronalab.org

Who we are: At the DNA Repair Laboratory, housed within the HUN-REN Research Centre for Natural Sciences, our primary objective is to enhance our understanding of DNA repair defects and leverage this knowledge to pinpoint new vulnerabilities in neurodegeneration. Given the susceptibility of the nervous system to various stresses, including DNA damage, we aim to explore the associations between DNA repair defects and neurological abnormalities. Through cutting-edge genomics, proteomics, biochemistry, molecular and cell biology, we strive to decipher the differences in DNA repair processes between neurons derived from healthy individuals and those affected by neurodegenerative diseases.

What we offer: The successful candidate will be part of a collaborative and supportive team, working in our newly established laboratory. This student training position is ideal for those seeking a place for their mandatory research project, preparing for the Students' Scientific Association Conference (TDK), or pursuing a BSc or MSc thesis. It offers the opportunity to explore a wide range of topics in neurodegeneration while gaining hands-on experience in molecular biology, bioinformatics, next-generation sequencing, and proteomics data analysis.

What we are looking for: We welcome BSc or MSc students in any area of life sciences with a basic understanding of molecular biology and some programming experience. Preference will be given to candidates with experience in neurobiology or bioinformatics approaches.

Research focus and key areas: Literature review in the field of neurodegeneration; data-collection from proteo-genomics studies; differential expression analysis of human proteomics and genomics datasets; generation, maintenance, and utilization of bioinformatics pipelines.

To apply, please send your CV along with a cover letter outlining your interests and detailing your most recent research project (such as coursework, thesis, or individual projects) to Istvan Szepesi-Nagy at *szepesi-nagy.istvan@ttk.hu*.