**FIRST FACULTY
OF MEDICINE
Charles University**

WHO WE ARE

Slachtova Laboratory at the Department of Biology and Medical Genetics, Charles University in Prague is dedicated to investigate genetic mechanisms of neurodegenerative disorders, such as Amyotrophic Lateral Sclerosis (ALS) and frontotemporal dementia (FTD).

Started recently, we use integrative approach to tackle neurodegenerative disorders including amyotrophic lateral sclerosis and frontotemporal dementia. We have a long-standing experience in genetics and biochemistry of metabolic and rare disorders (Eur J Hum Gen 2016, Nature Genetics 2020). Our goal is to integrate genomic and other omic data with clinical and epidemiological data to discover novel mechanisms causing ALS. We are funded by PRIMUS grant from Charles University and have numerous international collaboration.

PROJECT

We are seeking two enthusiastic PhD candidates with an interest in genetics, genomics, bioinformatics, or neurodegeneration to investigate **Genetic and epidemiological risk factors causing or contributing to Amyotrophic lateral sclerosis (ALS) in Slavic population.**

ALS, also known thanks to the Ice Bucket Challenge, is a progressive neurodegenerative disorder with no cure. We are interested in finding novel genetic mechanisms and risk factors affecting disease`s age of onset, progression, survival, etc. For this, we will use large epidemiological and clinical data, and combine them with high-end technologies such as Genome Wide arrays, Whole Genome Sequencing or Linkage analysis. This approach provides detailed insight into molecular mechanisms leading to ALS and can navigate patients who can further participate in specific clinical trials.

You will be a part of interdisciplinary team and work closely with neurologists, bioinformaticians, biochemists and other team members, so we are looking for a team player. Joining our team you have a chance to become a part of an exciting era of ALS research, when genomics is one of the strongest driven forces toward the ultimate goal: To find a cure.

PROFILE

Essential: Master degree in Life Sciences, Bioinformatics or in Medicine, Fluent English or Czech/Slovak
Desirable, but not required: Experience in neurodegeneration or with rare diseases is a plus, database experience is a plus

How to apply

Please, send your CV and a cover letter and 2 references (contact) to: lenka.slachtova@gmail.com or lenka.slachtova@lf1.cuni.cz.