Ph.D. studentship - Drug Discovery and Evaluation Unit

Closing date: 15.3.2019

The Drug Discovery and Evaluation Unit at Charles University, Faculty of Science - BIOCEV is seeking a highly motivated and versatile PhD student. The studentship is available from October 2019 (applicant selection in April). The successful candidate will join a multidisciplinary team of scientists engaged in an exciting drug discovery collaboration. The position is to develop cell- and target-based assays to support drug discovery programs, identify targets and compounds mode of action and investigate disease relevant mechanisms.

The BIOCEV Drug Discovery and Evaluation Unit mission is to discover and expedite the development of new antiparasitic drugs for unmet medical needs. This new research group operates in the frame of the Center for Research of Pathogenicity and Virulence of Parasites.

BIOCEV, Biotechnology and Biomedicine Center of the Academy of Sciences and Charles University in Vestec, opened in 2016, offers state-of-the-art infrastructure with cutting-edge equipment.

Responsibilities include:

• Developing relevant, novel and innovative cell-based and biochemical assays Applying these assays to screen and profile cellular activity of novel compounds and to interrogate target biology/disease relevant mechanisms
• Engaging in exciting target identification and validation to verify the mode of action of novel compounds
• Culturing protist parasites (and human host cell lines) and using modern technologies to generate new cell lines
• Critically analyse project data and contribute ideas that will drive projects forward
• Work in an interdisciplinary team to support our research strategies and project goals
• Contributing to publication process and presenting at international conferences

Required attributes:

• Completed university education in the field of molecular biology, cell biology or biochemistry, parasitology or related fields (MSc degree or equivalent)
• Basic knowledge of cell biology, molecular biology and biochemistry techniques is required
• Experience with cell culture techniques will be a plus
• Eagerness to learn new techniques
• Excellent verbal and written communication and interpersonal skills to work within an
interdisciplinary team
• Exceptional time management, organisational and self-motivational skills
• Fluency in English

Applicants must supply the following documents: Cover letter, CV. For informal enquiries please contact Lenka Pachmanová, Center for Research of Pathogenicity and Virulence of Parasites project coordinator, by email: lenka.pachmanova@natur.cuni.cz