

Study programme: MEDICAL CHEMISTRY AND CLINICAL BIOCHEMISTRY

ANNOTATION

The main goals of this project are i) design, synthesis and characterization of [n]helicenes and helicene-like molecules, and ii) study of their interactions with broad spectrum of biomacromolecules, DNA and proteins. Ph.D. applicant will be involved not only in experimental but also in computational projects concerning chemistry and toxicological evaluation of helical aromatics. The main impact of these projects will be in pharmacology, toxicology and related disciplines.

ADMISSION PROCEDURE 2017/18

Dissertation topics of the training department:

Department of Medical Chemistry and Biochemistry, Faculty of Medicine and Dentistry, Palacký University Olomouc, Hněvotínská 3, Olomouc, tel.: +420 585 632 302

1. Interaction of helical aromatics with DNA and proteins

1 position in the full-time form of study

Supervisor: doc. Ing. Jan Vacek, Ph.D.

2. Study of wound healing process *in vitro*

1 position in the full-time form of study

Supervisor: Mgr Jana Franková, Ph.D.

Application deadline:

15 May 2017

Date and location of the entrance examination:

19 June 2017 at 11:00 in the library of the Department of Medical Chemistry and Biochemistry, Faculty of Medicine and Dentistry, Palacký University Olomouc, Hněvotínská 3, Olomouc

Anticipated maximum number of admitted students:

Full-time form: 2 students

Distance form: -

Examination format: oral

Contents of entrance examination:

- background in biochemistry, analytical chemistry and molecular biology

Evaluation criteria:

- knowledge of basic topics in biochemistry, good command of English, scientific motivation and innovative thinking shall be appreciated

The annual tuition fee for the post-graduate study programme conducted in English is set at EUR 3,000.