

## **Study programme: NEUROSCIENCES**

### **ANNOTATION**

A multidisciplinary theoretical-clinical programme dealing with morphological, biological, physiological, pathophysiological and clinical aspects of the nervous system. Graduates of the Neuroscience programme will be comprehensively educated in the field of neuroanatomy, neurophysiology and neurobiology, will be well oriented in nervous system disorders, will be generally educated in the fields of neuropsychology and neuropsychopharmacology, and will possess detailed knowledge in the chosen profile subject. Graduates will be fully capable of independent research in the field of neurosciences and clinical neuroscience and in pre- and postgraduate teaching in these fields.

### **ADMISSION PROCEDURE 2019/20**

Dissertation topics of the training departments:

Department of Neurology, Faculty of Medicine and Dentistry and University Hospital Olomouc, Palacký University Olomouc, I.P. Pavlova 6, Olomouc, tel.: +420 588 443 401

Department of Psychiatry, Faculty of Medicine and Dentistry and University Hospital Olomouc, Palacký University Olomouc, I.P. Pavlova 6, Olomouc, tel.: +420 588 443 503

1. **Morphological correlates of atypical parkinsonian syndromes**  
1 position in the full-time and 1 position in the distance form of study  
Supervisor: prof. MUDr. Petr Kaňovský, CSc., doc. MUDr. Kateřina Menšíková, Ph.D., MUDr. Martin Nevrlý, Ph.D., MUDr. Michaela Kaiserová, Ph.D.
2. **Experimental examination of the cerebrospinal fluid**  
1 position in the full-time and 1 position in the distance form of study  
Supervisor: prof. MUDr. Jan Mareš, Ph.D., MBA
3. **Global motor patterns and modulation of the central nervous system**  
1 position in the full-time and 1 position in the distance form of study  
Supervisor: prof. MUDr. Ing. Petr Hlušík, Ph.D.
4. **Circadian system and affective disorders**  
1 position in the full-time and 1 position in the distance form of study  
Supervisor: prof. MUDr. Ján Pavlov Praško, CSc., prof. MUDr. Klára Látalová, Ph.D.
5. **Long-term treatment of bipolar affective disorder**  
1 position in the full-time and 1 position in the distance form of study  
Supervisor: prof. MUDr. Klára Látalová, Ph.D.
6. **Cognitive aspects of locomotion stereotype**  
1 position in the full-time and 1 position in the distance form of study  
Supervisor: doc. MUDr. Alois Krobot, Ph.D., MUDr. Petr Konečný, Ph.D., MBA

## 7. Pathophysiological aspects of the diagnostics and treatment of spasticity

1 position in the full-time and 1 position in the distance form of study

Supervisor: doc. MUDr. Alois Krobot, Ph.D., MUDr. Petr Konečný, Ph.D., MBA

### Note:

Applicants choose from the offered topics and in the application form, besides the chosen study programme, also confirm the selected dissertation topic.

### Application deadline:

**13 May 2019**

### Date and location of the entrance examination:

**20 June 2019** at 11:30 in the office of the head of the Department of Neurology, Faculty of Medicine and Dentistry and University Hospital Olomouc, Palacký University Olomouc, I. P. Pavlova 6, Olomouc

### Anticipated maximum number of admitted students:

**Full-time form: 7 students**

**Distance form: 7 students**

### Examination format: oral

### Contents of entrance examination:

- knowledge of the pathophysiology of demyelination diseases of the CNS, neurotransmitter theory, the biological markers of neurodegeneration, the neuroscience of anxiety disorders, the neurological aspects of psychiatry and chronobiology of bipolar affective disorders, at the level of pre-graduate master's study

### Evaluation criteria:

- knowledge of the field at pre-graduate level, language skills, competences for scientific and research work

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