

## **Study programme: NEUROSCIENCES**

### **ANNOTATION**

Neurosciences is a multidisciplinary theoretical-clinical programme which deals 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 topics of nervous system disorders, will be generally educated in the fields of neuropsychology and neuropsychopharmacology; will possess detailed knowledge in the chosen profile of the subject. They will be fully capable of independent research in the field of neuroscience and clinical neuroscience and in pre- and postgraduate teaching of these subjects.

### **ADMISSION PROCEDURE 2023/24**

Dissertation topics of the training departments:

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

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

#### **1. Morphological Correlates of Atypical Parkinsonian Syndromes**

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

Supervisors: prof. MUDr. Petr Kaňovský, CSc., FEAN, 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 part-time 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 part-time 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 part-time form of study

Supervisors: 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 part-time 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 part-time form of study

Supervisor: doc. 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 part-time form of study

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

Application deadline: **15 May 2023**

Date and location of entrance examination: **15 June 2023** at 11:30 a.m.

Office of the head of the Subject-area Board, Department of Neurology, Faculty of Medicine and Dentistry, Palacký University Olomouc and University Hospital Olomouc, I. P. Pavlova 6, Olomouc

Anticipated maximum number of admitted students:

**Full-time form:** **7** students

**Part-time form:** **7** students

Examination format: oral

Contents of entrance examination:

Knowledge of the pathophysiology of demyelination diseases of the CNS, neurotransmitter theory, biological markers of neurodegeneration, neuroscience of anxiety disorders, neurological aspects of psychiatry and chronobiology of bipolar affective disorders, to the extent of master degree level

Evaluation criteria:

Knowledge of the field to the extent of master degree level, language capabilities, aptitude for science and research

The annual tuition fee for the post-graduate study programme conducted in English is set at EUR 100.