

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 2025/2026

Contact details of the training departments:

Department of Neurology, Faculty of Medicine and Dentistry, Palacký University Olomouc and University Hospital Olomouc, I.P.Pavlova 92/13, Olomouc, tel. 588 443 401

Department of Psychiatry, Faculty of Medicine and Dentistry, Palacký University Olomouc and University Hospital Olomouc, Za Nemocnicí 1163/1, Olomouc, tel. 588 443 503

Dissertation topics of the training departments:

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., doc. 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: MUDr. Zuzana Rous, Ph.D.

3. Plasticity and Pathophysiology of Structural and Functional Brain Networks

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

Supervisor: prof. MUDr. Ing. Petr Hlušík, Ph.D., MUDr. Pavel Hok, Ph.D.

4. 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.

5. Orofacial functional diagnostics and therapy

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

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

6. 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 2025

Date and location of entrance examination:

19 June 2025 at 10:00 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 92/13, Olomouc

Anticipated maximum number of admitted students:

Full-time form: 6 students

Part-time form: 6 students

Examination format: oral

Contents of entrance examination:

Knowledge of the pathophysiology of demyelination diseases of the CNS, neurotransmitter theory, biological markers of neurodegeneration, central motor control and its disorders, neuroscience of anxiety disorders, neurobiological 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's 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.