

Study programme: MEDICAL IMMUNOLOGY

ANNOTATION

PhD students are profiled for orientation in the principles of basic and clinical immunology, well trained in performing various methodological approaches allowing determining the parameters of cell-mediated and humoral immunity, and the underlying genetic background of various immunologically determined states. The dissertation topics proposed by the Department of Immunology, Faculty of Medicine and Dentistry and University Hospital Olomouc, reflect the experimental focus of individual research groups, and their collaboration with other academic, research, and commercial subjects.

ADMISSION PROCEDURE 2022/23

Dissertation topic/s of the training department:

Department of Immunology, Faculty of Medicine and Dentistry and University Hospital Olomouc, Palacký University Olomouc, Hněvotínská 3, Olomouc, tel. +420 585 632 752

1. Immune Mechanisms Involved in Immune Complexes-associated Kidney Disease

1 position in the full-time form of study

Supervisor: prof. Mgr. MUDr. Milan Raška, Ph.D.

2. Immune Scoring of Oncologic Patients and Biomarkers Predicting the Response to Biological Therapy

1 position in the full-time form of study

Supervisor: prof. Mgr. MUDr. Milan Raška, Ph.D.

3. Design of Structural Modification of Recombinant Antigens Leading to Enhancement of Neutralization Antibody Response upon Vaccination

1 position in the full-time form of study

Supervisor: prof. Mgr. MUDr. Milan Raška, Ph.D.

4. The Importance of Selected Immunogenetic and Immunological Factors for the Transplantation Outcome

1 position in the full-time form of study

Supervisor: prof. MUDr. František Mrázek, Ph.D.

5. Pathogenesis of Post-treatment Lyme Disease Syndrome

1 position in the full-time form of study

Supervisor: Mgr. Michal Křupka, Ph.D.

Application deadline:

13 May 2022

Date and location of the entrance examination: **9 June 2022** at 10:00 a.m. in the Seminar room of the Department of Immunology, Faculty of Medicine and Dentistry and University Hospital Olomouc, Palacký University Olomouc, Hněvotínská 3, Olomouc

Alternative date of entrance examination: **16 June 2022** at 10:00 a.m. in the Seminar room of the Department of Immunology, Faculty of Medicine and Dentistry and University Hospital Olomouc, Palacký University Olomouc, Hněvotínská 3, Olomouc

Anticipated maximum number of admitted students:

Full-time form:

5 students

Examination format: oral

Contents of entrance examination:

basic immunology, principles of the immune system, specific and adaptive immunity, cell mediated and humoral factors of immune protection
basics of clinical immunology – allergy, autoimmunity, immune deficiencies, immune control of tumour development
immunotherapy

Graduates of General Medicine or Dentistry programmes or graduates of biology, alternatively biochemistry related study programmes are welcomed.

Based on the submitted CV evaluation, candidates will be invited for an interview.

Evaluation criteria:

The interview will focus on assessing the candidate's orientation in immunology and general biology, including the evaluation of laboratory skills. The next part will be focused on determining the candidate's ability to propose an experimental solution for simple biological and immunological tasks.

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