

**Schedule of seminars and lectures on  
INTRODUCTION TO CLINICAL IMMUNOLOGY  
for the Students of English Dentistry Division,  
Medical University of Warsaw**

**2nd year, winter semester 2025/2026**

**Teachers/lecturers:**

- Prof. Dominika Nowis, MD, PhD, Laboratory of Experimental Medicine, Medical University of Warsaw, 5 Nielubowicza Street, Warsaw, e-mail: [dominika.nowis@wum.edu.pl](mailto:dominika.nowis@wum.edu.pl) (DN)
- Prof. Jakub Golab, MD, PhD, Department of Immunology, Medical University of Warsaw, 5 Nielubowicza Street, Warsaw, e-mail: [jakub.golab@wum.edu.pl](mailto:jakub.golab@wum.edu.pl) (JG)

**October 6th, 2025**

**Room 3.39 UCD (University Center of Dentistry), 6 Binieckiego Street**

Lecture 1 (10:00 – 10:45) - Introduction to immunology. Organization of the immune system. **JG**

Lecture 2 (10:45 – 11:30) - Therapeutic and diagnostic applications of monoclonal antibodies. **DN**

**October 13th, 20245**

**Room 3.39 UCD (University Center of Dentistry), 6 Binieckiego Street**

Seminar 1 (10:00 – 11:30) - The role of the immune system. Structure of lymphoid organs. Structure of antibodies and T-cell antigen receptors. Classes and subclasses of antibodies - biological significance. Applications of monoclonal antibodies and their derivatives. **(DN)**

Reading: Kenneth M. Murphy, Casey Weaver, Leslie J. Berg. Janeway's Immunobiology (Tenth Edition), W. W. Norton & Company, 2022 – **Chapters: 1 and 4 (4-1 – 4-14)**

**October 20th, 2025**

**Room 3.39 UCD (University Center of Dentistry), 6 Binieckiego Street**

Seminar 2 (10:00 – 11:30) - Sources of diversity of antibodies and T cell receptors (TCRs). Major histocompatibility system. Presentation of antigens to T lymphocytes. Development of the immune response. **(JG)**

Reading: Kenneth M. Murphy, Casey Weaver, Leslie J. Berg. Janeway's Immunobiology (Tenth Edition), W. W. Norton & Company, 2022 – **Chapters: 4 (4-15 – end), 5, 6, 9, and 10**

**October 27th, 2025**

**Microsoft Teams**

Lecture 3 (10:00 – 10:45) – Mucosal immunity. **DN**

Lecture 4 (10:45 – 11:30) - Maturation and circulation of lymphocytes. **JG**

**November 3rd, 2025**

**Room 3.39 UCD (University Center of Dentistry), 6 Binieckiego Street**

Seminar 3 (10:00 – 11:30) - Innate immunity. Function of the complement system. Interferons. Functions of macrophages and granulocytes. Natural and antibody-dependent cell-mediated cytotoxicity. Mechanisms of lymphocyte cytotoxicity. Mechanisms of immunity in mucous membranes, with special emphasis on the oral cavity. **(JG)**

Reading: Kenneth M. Murphy, Casey Weaver, Leslie J. Berg. Janeway's Immunobiology (Tenth Edition), W. W. Norton & Company, 2022 – **Chapters: 2, 3, 11, and 12**

**November 10th, 2025**

**Microsoft Teams**

Lecture 5 (10:00 – 10:45) – Anti-infective immunity - part 1. **DN**

Lecture 6 (10:45 – 11:30) - Anti-infective immunity - part 2. **DN**

**November 17th, 2025**

**Microsoft Teams**

Lecture 7 (10:00 – 10:45) - Hypersensitivity and allergic diseases. **JG**

Lecture 8 (10:45 – 11:30) - Immune tolerance and autoimmune diseases. **DN**

**November 24<sup>th</sup>, 2025**

**Microsoft Teams**

Lecture 9 (10:00 – 10:45) - Immunology and immunotherapy of cancer. **JG**

Lecture 10 (10:45 – 11:30) - Secondary immunodeficiencies, HIV infection. **DN**

**December 1st, 2025**

**Room 3.39 UCD (University Center of Dentistry), 6 Binieckiego Street**

Seminar 4 (10:00 – 11:30) - Abnormalities of the immune response (allergies and autoimmune diseases). Transplant immunology. **(DN)**

Reading: Kenneth M. Murphy, Casey Weaver, Leslie J. Berg. Janeway's Immunobiology (Tenth Edition), W. W. Norton & Company, 2022 – **Chapters: 13, 14, and 15**

**December 8th, 2025**

**Room 3.39 UCD (University Center of Dentistry), 6 Binieckiego Street**

Seminar 5 (10:00 – 11:30) - Anti-tumor immunity. **Credit Colloquium.** Completion by students of the Questionnaire for Evaluation of Classes and Academic Teachers. **(JG)**

Reading: Kenneth M. Murphy, Casey Weaver, Leslie J. Berg. Janeway's Immunobiology (Tenth Edition), W. W. Norton & Company, 2022 – **Chapter 16**