

**2015/2017
SIX YEAR MD PROGRAM,
IMMUNOLOGY I SECOND YEAR
AND
IMMUNOLOGY II, THIRD YEAR
DETAILED PROGRAM**

Address:

Department of Immunology
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Website: <http://www.immuno.ump.edu.pl/>

Course coordinator: Prof. UM dr hab. med. Grzegorz Dworacki
contact: gdwrck@ump.edu.pl

Co-coordinators: dr Renata Jenek
contact tel. 61-8547179
dr Husam Samara
contact: samara@ump.edu.pl

Teachers:

Prof. Grzegorz Dworacki, M.D., Ph.D.
Prof. Jan Żeromski, M.D., Ph.D.
Prof. Jan Sikora, Ph.D.
Husam Samara, M.D., Ph.D.
Mariusz Kaczmarek Ph.D.
Bartosz Brzezicha M.Sc
Maciej Majcherek, M.D.
Jakub Owoc, M.D.
Alicja Kalinowska-Łyszczarz, M.D. Ph.D.

Recommended books: (newest editions):

1. Chapel: Essential of Clinical Immunology. Blackwell. (Clinical Immunology)
2. Żeromski ed.: Introduction to Clinical Immunology. Poznan University Press 2009 (Basic, Laboratory, Clinical Immunology)
3. Abbas, Lichtman: Basic Immunology. Saunders. (Basic Immunology)

Topics and handouts:

The main topics are listed below within the course program.

Detailed topics can be found in corresponding chapters of the “**Introduction to Clinical Immunology**” textbook.

Regulations of The Immunology Course

The course encompasses :

part I: lectures (20 hrs), on the second year,

part II:lectures (4 hrs), basic and laboratory classes (12 hrs) and seminars on clinical immunology (32 hrs) during the third year.

A. Lectures

They cover up-to-date knowledge of basic and clinical immunology.

Attendance is not compulsory but highly recommended.

On the last lecture students write a test that covers so far given lectures material.

The test cannot be repeated, and obtained scores by the student will be added to the total sum achieved at final evaluation. Absence from the test results in obtaining zero points.

B. Basic and laboratory immunology

The classes are devoted to introduce immunologic diagnostic methods, five days, two hours daily.

Participation in all practicals is obligatory.

In case of absence on one day student should be prepared attend with another group, after to answer for oral questions from this subject to the involved assistant. Absence from two or more practicals excludes the student from course.

Practicals end with a test that covers the activities of five days.

The test cannot be repeated, and obtained scores by the student will be added to the total sum reached at final examination. Absence form the test results in obtaining no points.

C. Clinical Immunology

Thirteen seminars, two hours daily. They include a short introduction to daily topic, presentation of clinical cases and laboratory data of given disease, discussion and conclusion of diagnosis. Students must be previously prepared for these classes. It is assumed that students will actively contribute in the presentation and discussion of these topics.

Participation in all 13 seminars is obligatory. In case of absence on one day student should be prepared to answer for oral questions from this subject to the involved assistant. Absence from 2 or more days requires repetition of the whole course in the next academic year.

General

- The attendance must be confirmed by the teacher or by student's signature on the attendance list. Students who exceed allowed absences will not be allowed to the final test and will be reported to the Dean's Office.
- Any unjustified delay from the class above 10 minutes will be considered as an absence.
- The results of the final exam will be announced on the website of the department and reported to the Dean's Office.
- Cheating or other kind of order disturbance on the exam may result in dismissing of the student and will be reported to the Dean's Office.
- Any issues that are not mentioned in these regulations are subjected to the General Regulations of the University

Final evaluation

The final test covers the whole material provided during the course i.e. lectures, practicals and seminars.

The final test is computerized (OLAT system), it consists of 100 multiple choice test questions.

In the **final score** results from the lecture's test, practicals' test and final test will be summed to form a total pool of 140 points, out of this, at least 60% score **(84 points) is needed in order to get a credit.**

If the student doesn't attend the final test or fail to obtain enough points then this will count as failed 1st chance and will be noted in the index as unsatisfactory (2.0) mark.

Second and third chances of the final test will consist of 100 questions only. Previous tests will not count. In order to pass the student is obliged to answer correctly at least 60 questions (60%).

Failure on three chances will disqualify the student from the course. This will result in the necessity of repeating the course on the next academic year after the assent of the Dean.

6-year program, 3rd year, 2016/2017

Immunology lectures L1-L2

L1	06.03.2017, Mon., 12 ⁰⁰ -13 ³⁰ Grzegorz Dworacki. Room 205 Coll.Stom, Bukowska 70	Interpretation of laboratory results in clinical immunology.
L2	13.03.2017, Mon., 12 ⁰⁰ -13 ³⁰ , Husam Samara. Room 205 Coll.Stom, Bukowska 70	Immunodeficiencies

6-year program, 3rd year, 2016/2017

Basic immunology

B1: Humoral immunology

1. Preview of humoral immunity - immunoglobulins and complement
2. Principles of immunologic testing.
3. Methods for the assessment of humoral immunity and other proteins present in body fluids – quantitative assays, antibody specificity assays, screening for autoantibodies.

B2: Evaluation of cell immunophenotype. Cellular immunology.

1. Preview of the cellular immunity
2. Biological materials available for examination and principles of sampling
3. Means of cell isolation and methods of assessment
4. Applications in medical practice

B3: Cellular immunology

1. Preview
2. Functional tests of lymphocytes
3. Evaluation of the function of phagocytic cells (phagocytosis, oxidative burst, migration).
4. Evaluation of the function of lymphocytes
5. In vivo tests
6. Clinical application of cellular functional tests

B4: Detection of proteins and nucleotides in situ

1. Types of tissue samples suitable for the assessment
2. Means of tissue preservation and/or fixations
3. Possibilities of immunological evaluation of tissue sections
4. Molecular methods in situ
5. Examples of applications

B5: Diagnostic immunology

1. The basic algorithm in diagnosing autoimmune diseases
2. The basic algorithm in diagnosing immune deficiencies
3. Issues of laboratory work organization: quality of performed tests, some pitfalls in the interpretation, the site of immunodiagnosics in laboratory medicine.

B6: Diagnostic immunology II

6-year program, 3rd year, 2016/2017

Clinical immunology

Detailed contents acc. to "Introduction to Clinical Immunology".

- C1. Autoimmune connective tissue disorders. Paweł Żebryk (PŻ)
- C2. Endocrine specific autoimmunity. Kosma Woliński (KW) ?
- C3. Renal immunopathology. Grzegorz Dworacki (GD)
- C4. Immunology of gastrointestinal tract and liver disorders. Jan Żeromski (JŻ)
- C5. Immunohematology. Maciej Majcherek (MM)
- C6. Immunology of respiratory tract . Jakub Owoc (JO)
- C7. Immunodeficiencies. Husam Samara (HS)
- C8. Cardiovascular disorders of immunity. Anna Olewicz (AO)
- C9. Transplantation. Marta Fichna (MFi)
- C10. Tumor Immunology. Mariusz Kaczmarek (MK)
- C11. Neuroimmunology. Alicja Kalinowska-Łyszczarz (AŁ)
- C12. Allergic diseases. Jakub Owoc (JO)
- C13. Immunomodulation and vaccines. Kosma Woliński (KW) ?
- C14. Immunology of reproduction. Mateusz Madejczyk (MMd)
- C15. Interpretation of laboratory results in clinical immunology. Maciej Boruckowski (MB)
- C16. Lymphoproliferative diseases – a diagnostic approach. Maciej Majcherek (MM)

6-year program, 3rd year, 2016/2017

Basic immunology

Place: Department of Immunology, ul. Rokietnicka 5D, 1st floor, Seminar Room,.

Subgroups	1A	06.03.2017 Mon. 14:00-15:30 B1 M.Łagiedo	08.03.2017 Wed. 13:30-15:00 B2 J. Sikora	10.03.2017 Fri. 13:30-15:00 B3 M.Kaczmarek	15.03.2017 Wed. 12:00-13:30 B4 B.Brzezicha	17.03.2017 Fri. 12:00-13:30 B5 M.Boruckowski	22.03.2017 Wed. 12:00-13:30 B6 M.Łagiedo
	1B	06.03.2017 Mon. 14:00-15:30 B2 J. Sikora	08.03.2017 Wed. 13:30-15:00 B1 M.Łagiedo	10.03.2017 Fri. 13:30-15:00 B4 B.Brzezicha	15.03.2017 Wed. 12:00-13:30 B3 M.Kaczmarek	17.03.2017 Fri. 12:00-13:30 B6 M.Łagiedo	22.03.2017 Wed. 12:00-13:30 B5 M.Boruckowski
	2A	07.03.2017 Tue. 12:00-13:30 B1 M.Łagiedo	09.03.2017 Thu. 12:00-13:30 B2 J. Sikora	13.03.2017 Mon. 14:00-15:30 B3 M. Kaczmarek	15.03.2017 Wed. 13:30-15:00 B4 B.Brzezicha	17.03.2017 Fri. 13:30-15:00 B5 M.Boruckowski	22.03.2017 Wed. 13:30-15:00 B6 M.Łagiedo
	2B	07.03.2017 Tue. 12:00-13:30 B2 J. Sikora	09.03.2017 Thu. 12:00-13:30 B1 M.Łagiedo	13.03.2017 Mon. 14:00-15:30 B4 B.Brzezicha	15.03.2017 Wed. 13:30-15:00 B3 M.Kaczmarek	17.03.2017 Fri. 13:30-15:00 B6 M.Łagiedo	22.03.2017 Wed. 13:30-15:00 B5 M.Boruckowski
	3A	07.03.2017 Tue. 13:30-15:00 B1 M.Łagiedo	09.03.2017 Thu. 13:30-15:00 B2 J. Sikora	14.03.2017 Tue. 12:00-13:30 B3 M. Kaczmarek	16.03.2017 Thu. 12:00-13:30 B4 B.Brzezicha	20.03.2017 Mon. 12:00-13:30 B5 M.Boruckowski	21.03.2017 Tue. 12:00-13:30 B6 M.Łagiedo
	3B	07.03.2017 Thu. 13:30-15:00 B2 J. Sikora	09.03.2017 Thu. 13:30-15:00 B1 M.Łagiedo	14.03.2017 Tue. 12:00-13:30 B4 B.Brzezicha	16.03.2017 Thu. 12:00-13:30 B3 M. Kaczmarek	20.03.2017 Mon. 12:00-13:30 B6 M.Łagiedo	21.03.2017 Tue. 12:00-13:30 B5 M.Boruckowski
	4A	08.03.2017 Wed. 12:00-13:30 B1 M.Łagiedo	10.03.2017 Fri. 12:00-13:30 B2 J. Sikora	14.03.2017 Tue. 13:30-15:00 B3 M. Kaczmarek	16.03.2017 Thu. 13:30-15:00 B4 B.Brzezicha	20.03.2017 Mon. 13:30-15:00 B5 M.Boruckowski	21.03.2017 Tue. 13:30-15:00 B6 M.Łagiedo
	4B	08.03.2017 Wed. 12:00-13:30 B2 J. Sikora	10.03.2017 Fri. 12:00-13:30 B1 M.Łagiedo	14.03.2017 Tue. 13:30-15:00 B4 B.Brzezicha	16.03.2017 Thu. 13:30-15:00 B3 M. Kaczmarek	20.03.2017 Mon. 13:30-15:00 B6 M.Łagiedo	21.03.2017 Tue. 13:30-15:00 B5 M.Boruckowski

Teachers:

- B1: Małgorzata Łagiedo
- B2: Jan Sikora,
- B3: Mariusz Kaczmarek,
- B4: Bartosz Brzezicha
- B5: Maciej Boruckowski
- B6: Małgorzata Łagiedo

6-year program, 3rd year, 2016/2017

Seminars

	1	2	3	4
Clinical immunology C1 – C16	23.03.2017 Th.12.30-14.00 r. 109, Chmiel Col 4 C1 PŻ	23.03.2017 Th.12.00-13.30 r. E25, Esculap C7 HS	23.03.2017 Th. 14.00-15.30 r. 109, Chmiel Col. C1 PŻ	23.03.2017 Th. 14.00-15.30 r. E25, Esculap C7 HS
	24.03.2017 Fr.12.00-13.30 r.211, Col. Stom. C7 HS	24.03.2017 Fr.12.00-13.30 r. 212, Col. Stom C4 JŻ	24.03.2017 Fr. 14.00-15.30 r.211, Col. Stom. C7 HS	24.03.2017 Fr. 14.00-15.30 r.212, Col. Stom. C4 JŻ
	27.03.2017 Mo.12.00-13.30 r.210, Col. Stom. C3 GD	27.03.2017 Mo.12.00-13.30 r.211, Col. Stom. C1 PŻ	27.03.2017 Mo.14.00-15.30 r. 210, Col. Stom C3 GD.	27.03.2017 Mo. 14.00-15.30 r. 211, Col. Stom. C1 PŻ
	28.03.2017 Tu.12.00-13.30 r.212, Col. Stom. C4 JŻ	28.03.2017 Tu.12.00-13.30 r. E25, Esculap C3 GD	28.03.2017 Tu.14.00-15.30 r. 212, Col. Stom. C4 JŻ	28.03.2017 Tu.14.00-15.30 r. E25 Esculap C3 GD
	29.03.2017 We.12.00-13.30 r. 211, Col. Stom. C5 MMj	29.03.2017 We.12.00-13.30 r. 212, Col. Stom C6 JO.	29.03.2017 We.14.00-15.30 r. 211, Col. Stom C5 MMj	29.03.2017 We.14.00-15.30 r. 212, Col. Stom. C6 JO
	30.03.2017 Th.12.00-13.30 r.205, Col. Stom. C6 JO	30.03.2017 Th.12.00-13.30 r. 212, Col. Stom. C5 MMj	30.03.2017 Th.14.00-15.30 r. 205, Col. Stom. C6 JO	30.03.2017 Th..00-15.30 r. 212, Col. Stom. C5 MMj
	31.03.2017 Fr.12.00-13.30 r. 211, Col. Stom. C2 KW	31.03.2017 Fr.12.00-13.30 r. 212, Col. Stom. C10 MK	31.03.2017 Fr.14.00-15.30 r. 211, Col. Stom C2 KW	31.03.2017 Fr..00-15.30 r. 212, Col. Stom. C10 MK
	03.04.2017 Mo.12.00-13.30 r.211, Col. Stom. C10 MK	03.04.2017 Mo.12.00-13.30 r. 210, Col. Stom C2 KW	03.04.2017 Mo. 14.00-15.30 r. 211, Col. Stom. C10 MK	03.04.2017 Mo. 14.00-15.30 r. 210, Col. Stom. C2 KW
	04.04.2017 Tu.12.00-13.30 r. E25, Esculap C9 MF	04.04.2017 Tu.12.00-13.30 r. 210, Col. Stom. C8 AO	04.04.2017 Tu. 14.00-15.30 r. E25, Esculap C9 MF	04.04.2017 Tu. 14.00-15.30 r. 210, Col. Stom. C8 AO
	05.04.2017 We.14.00-15.30 r. 211, Col. Stom. C8 AO	05.04.2017 We.14.00-15.30 r. 212, Col. Stom C9 MF.	05.04.2017 We.12.00-13.30 r. 211, Col. Stom C8 AO.	05.04.2017 We.12.00-13.30 r. 212, Col. Stom. C9 MF
	06.04.2017 Th.12.00-13.30 r. 210, Col. Stom. C11 AŁ	06.04.2017 Th 12.00-13.30 r. 212, Col. Stom C12 JO.	06.04.2017 Th 14.00-15.30 r. 210, Col. Stom. C11 AŁ	06.04.2017 Th 14.00-15.30 r. 212, Col. Stom. C12 JO
	07.04.2017 Fr.12.00-13.30 r.211, Col. Stom. C 12 JO	07.04.2017 Fr.12.00-13.30 r. 212, Col. Stom C11 AŁ.	07.04.2017 Fr.14.00-15.30 r. 211, Col. Stom. C12 JO	07.04.2017 Fr.14.00-15.30 r. 212, Col. Stom. C11 AŁ
	10.04.2017 Mo.12.00-13.30 r. 211, Col. Stom. C13 KW	10.04.2017 Mo.12.00-13.30 r. 210, Col. Stom C15 MB.	10.04.2017 Mo.14.00-15.30 r. 211, Col. Stom. C13 KW	10.04.2017 Mo.14.00-15.30 r. 210, Col. Stom. C15 MB
	11.04.2017 Tu.12.00-13.30 r. E25, Esculap C15 MB	11.04.2017 Tu. 12.00-13.30 r. 210, Col. Stom. C13 KW	11.04.2017 Tu..14.00-15.30 r. E25, Esculap C 15 MB	11.04.2017 Tu. 14.00-15.30 r. Col. Stom C13 KW
	12.04.2017 We. 12.00-13.30 r. 211, Col. Stom. C 14 MMd	12.04.2017 We. 12.00-13.30 r. 212, Col. Stom. C16 JO	20.04.2017 Th. 12.00-13.30 r.E 23, Esculap C14 MMd	20.04.2017 Th. 12.00-13.30 r. E24, Esculap C16 JO
	20.04.2017 Th. 14.00-15.30 r. E23, Esculap C 16 JO	20.04.2017 Th. 14.00-15.30 r. E24, Esculap C14 MMd	24.04.2017 Mo. 12.00-13.30 r. 211, Col. Stom C16 JO.	24.04.2017 Mo. 12.00-13.30 r. 210, Col. Stom. C14 MMd

Dept. Imm.: Department of Immunology, Rokietnicka 5D, 1st floor, seminar room.

Coll. Stom. ###: Collegium Stomatologicum, Bukowska 70.

Chmiel.###: Collegium Chmiela, Święcickiego 4.

Horoszkiewicz s lecture room, Święcickiego 6.

Nencki s lecture room, Święcickiego 6.

Zeyland s lecture room, Przybyszewskiego 49

E.###: Eskulap, Entrance from Language Center, Marcelinska 27.

**FINAL EXAMINATION
WILL BE SCHEDULED LATER**