

Course on basic immunology (spring 2020)

General description: An elective course of immunology on a relatively basic level covering also some methodological and clinical aspects.

Eligibility: Students in medicine, dentistry, biochemistry, biology, biomedicine, and in biomedical imaging and drug discovery -programs (and students with other similar background). PhD -students of doctoral programs.

Course description: Lectures (15 x 60min).

ECTS points: 2 (two) ECTS points (for graduate students of medicine, dentistry and biomedicine, postgraduate studies related to doctoral programs). We advise students from faculties other than medical faculty to check themselves that ECTS points are accepted for their curriculum (e.g. through JOO system).

Time and place: Spring 2020 (March-April), lectures on Tuesdays and Thursdays at 14.30.
Place: Lecture hall Säätiö, MedD, Kiinamyllynkatu 10

Course leaders: Arno Hänninen and Marko Salmi
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Registration: <https://konsta.utu.fi/Default.aspx?tabid=88&tap=8988>

Lectures (14:30 – 15:30)

3.3. Säätiö-hall	Introduction of the course (Marko Salmi)
5.3. Säätiö-hall	Flow and mass cytometry in immune cell analysis (Jouko Sandholm)
10.3. Säätiö-hall	Lymphoid organs (Akira Takeda)
12.3. Säätiö-hall	Innate immunity 1: Complement and its functions (Jukka Hytönen)
17.3. Säätiö-hall	Innate immunity 2: Myeloid leukocytes, pattern recognition (Maija Hollmen)
19.3. Säätiö-hall	B-cells and humoral immunity (Jukka Alinikula)
24.3. Säätiö-hall	B-cell effector mechanisms and therapeutic antibodies (Pieta Mattila)
26.3. Säätiö-hall	Antigen presentation and HLA/MHC (Jorma Ilonen)
31.3. Säätiö-hall	T lymphocytes and cytokines (Ubaid Ullah)
2.4. Säätiö-hall	Immunological tolerance (Sakari Pöysti)

14.4. Säätiö-hall	Leukocyte trafficking and inflammatory reaction (Sirpa Jalkanen)
16.4. Säätiö-hall	Autoimmune diseases (Arno Hänninen)
21.4. Säätiö-hall	Immunity in microbial infections and vaccine immunology (Ilkka Julkunen)
23.4. Säätiö-hall	Cancer immunology (Marko Salmi)
28.4. Säätiö-hall	Inborn errors of immune system (Johanna Lempainen)
5.5. Säätiö-hall	Reserve time

Feedback and evaluation of the course

The course is open for feedback and evaluation in Moodle. At the end of the course, participants fill in a structured questionnaire for final feedback.

The course is organized in collaboration with TuDMM