

PROGRAM SUMMER COURSE IN IMMUNOLOGY AUGUST 29 – SEPTEMBER 1, 2022

Monday, August 29 Lectures		Tuesday, August 30 Lectures, Thematic discussion		Wednesday, August 31 Thematic discussion		Thursday, September 1 Thematic discussion	
08:15-09:00	Introduction and overview Fabienne Tacchini-Cottier Werner Held	08:15-09:00	Preparation time	08:15-09:00	Preparation time	08:15-09:00	Preparation time
09:00-09:45	Innate Immunity Petr Broz (UNIL)	09:00-09:45	Stromal cells Sanjiv Luther (UNIL)	09:00-09:45	Immunity to Parasites Andreas Müller (Magdeburg, Germany)	09:00-09:45	Regulation of gene expression in immune cells Silvia Monticelli (IRB)
10:00-10:45	Antigen processing/presentation Stephanie Hughes (UNIGE)	10:00-10:45	Bioinformatic analysis in Immunology David Gfeller (UNIL)	10:00-10:45	Group 3	10:00-10:45	Group 7
11:00-11:15	Coffee break	11:00-11:15	Coffee break	11:00-11:15	Coffee break	11:00-11:15	Coffee break
11:15-12:00	Neutrophils Véronique Witko-Sarsat Institut Cochin, Paris	11:15-12:00	Immune regulation Nicole Joller (UNIZurich)	11:15-12:00	Group 4	11:15-12:00	Group 8
12:15-13:00	Research seminar Véronique Witko-Sarsat	12:15-13:00	Research seminar Nicole Joller	12:15-13:00	Research seminar Andreas Müller	12:15-13:00	Research seminar Silvia Monticelli
13:00-14:00	Lunch break	13:00-14:00	Lunch break	13:00-14:00	Lunch break	13:00-14:00	Lunch break
14:00-14:45	Dendritic cells Roxane Tussiwand NIH, USA	14:00-14:45	Immunometabolomics Ping-Chih Ho (UNIL)	14:00-14:45	Vaccines Daniel Pinschewer (UNIBAS)	14:00-14:45	Tumor Immune response Mikaël Pittet (UNIGE)
15:00-15:45	CD4/CD8 T cell responses Grégory Verdeil, (CHUV)	15:00-15:45	Group 1	15:00-15:45	Group 5	15:00-15:45	Group 9
15:45-16:00	Coffee break	15:45-16:00	Coffee break	15:45-16:00	Coffee break	15:45-16:00	Coffee break
16:00-18:00	Preparation time FTC, WH	16:00-18:00	Group 2	16:00-18:00	Group 6	16:00-18:00	Group 10

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Affiliations of the Organizers and Lecturers (and abbreviations)

Organizers

Fabienne Tacchini-Cottier (abbreviated to FTC), Department of Biochemistry, UNIL, and WHO-IRTC

Werner Held (abbreviated to WH), Department of Fundamental Oncology, UNIL

Lecturers (in order as listed in the program)

Petr Broz, Department of Biochemistry, UNIL, Epalinges, CH

Stéphanie Hugues, Department of Pathology and Immunology, UNIGE, Genève, CH

Véronique Vitko-Sarsat, Biomedical Institute, Institute Cochin, Paris, FR

Roxane Tussiwand, Immune Regulation, NIDCR/NIH, Bethesda, USA

Gregory Verdeil, Department of Fundamental Oncology, UNIL, CHUV, Epalinges, CH

Sanjiv Luther, Department of Biochemistry, UNIL, Epalinges, CH

David Gfeller, Faculty Biology and Medicine, UNIL, Epalinges, CH

Nicole Joller, Institute of Experimental Immunology, University of Zürich, Zurich, CH

Ping Chih-Ho, Department of Fundamental Oncology, UNIL, Epalinges, CH

Andreas Müller, Infection and Immunity department, Magdeburg University, Magdeburg, DE

Daniel Pinschewer, Department of Biomedicine, UNIBAS, Basel, CH

Silvia Monticelli, Institute for research in Biomedicine, Bellinzona, CH

Mikaël Pittet, Department of Pathology and Immunology, UNIGE, Genève, CH

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Course description

This is an intensive, **4 days course in immunology** intended for PhD and MD/PhD and advanced MD students, who wish to expand and update their understanding of the immune system and its role in health and disease. Attendees require to have a basic understanding of immunology. To improve this, attendees will have access to a web-based immunology online course (the link will be given once registration to the course is confirmed) and are strongly encouraged to use it prior the beginning of the course. We also expect students to take the associated immunology quiz before the beginning to the course (mandatory).

The course includes lectures in basic immunology, 3 research seminars and 5 specialized themes which form part of the practical work. The format of the practical part (Tuesday, Wednesday and Thursday) is as follows: Each half-day practical course will start with a 30-45 minutes general introduction into the field by the invited speaker. This will be followed by a detailed discussion of 2 research papers proposed by the invited speaker. Each student will be part of a group of 3 students that presents one research (20 min power point presentation), whereby each student has to present a part of the paper. This will be followed by a thorough discussion. All students have to be familiar with all research papers and are expected to actively participate in the discussion. To ensure a well-informed discussion each student has to submit at least one written question for each research paper. These questions will be collected prior to the course and issues raised will be addressed.

→ Attendance of all lectures and the practicals are mandatory. A sign-up sheet will be circulated each day; it is the student's responsibility to ensure that they sign it as proof of attendance. In case of absence, students have to notify the organizers in advance.

→ Lectures and discussions are in English and are held at the Center for Immunity and Infection Lausanne (CIIL), Epalinges in Room B301 (at the main entrance of the Centre de Laboratoires d'Epalinges, see map on page 4 of this document)

Number of credits: 2.5 ECTS (among these 2 are tutorials) and 2 days of continuous education credits for animal experimentation. A maximum of 30 participants will be accepted, on a first come basis, with priority to UNIL, EPFL and UNIGE students.

Please check the number of ECTS with your specific PhD program if you are not a PhD student at the FBM, UNIL!



Reception and room B301 are found at the entrance of building B (circled in red).

Building B is 3 minutes by walk from the Metro stop "Croisettes" (circled in black).

Take the metro "M2" from Lausanne train station, (entry next to the McDonalds) direction "Croisettes" (last stop). This journey takes 15 minutes.