Academic year 2010/no. DB021
Summer Course in Immunology
September 6th-10th, 2010 - Epalinges
Organizer : Fabienne Tacchini-Cottier, Department of Biochemistry (DB-UNIL)

Mon 6 Sept	**Innate immunity**	
08:45	Introductory remarks, overview	F. Tacchini-Cottier, DB/UNIL/WHO
09:00 - 10:45	Role of inflammasome in inflammation	Jürg Tschopp, DB/UNIL
10:45 – 11:00	BREAK	
11:05 - 12:15	Immune Response to NK cells	Werner Held, LICR
12:15 - 14:00	LUNCH	
14:00 - 16:00	TLR in sepsis	Thierry Calandra, CHUV
16:00 - 16:15	BREAK	
16:15 -17:30	Presentation of individual projects	Fabienne Tacchini-Cottier Jean-Pierre Krahenbuhl, Hset Nathalie Debard, Hset
Tue 7 Sept	**Dendritic cells in infection**	
09:00 - 10:45	Role of DC at the interface between innate and adaptive immune response	Hans Acha-Orbea, DB/UNIL
10:45 – 11:00	BREAK	
11:00 - 12:45	Use of DC in vaccination	Pedro Romero, LICR
12:45 – 14:00	LUNCH	
14:00 - 18:00	Practical session: -Introduction FACS – How many parameters can be measured -Luminex, how many cytokines you can measure ?	Anne Wilson, LICR Danny Labes, LICR Janet Graystone, Invitrogen
Wed 8 Sept	**Effector T cells and cytokines in diseases**	
09:00 - 09:45	Differentiation of effector T cells : T helper cells subsets	Fabienne Tacchini-Cottier
09:45 – 10:15	BREAK	
10:15 - 11:00	Effector Th2 cells in allergy	François Spertini, CHUV
Vaccinology		
11:05 - 12:00	Vaccines – Design of Vaccines	Martine Denis, Sanofi/Pasteur
12:15–13:15	LUNCH - SEMINAR - Vaccines against flu	Martine Denis, Sanofi/Pasteur
13:15-14:00	DISCUSSION - PIZZA	
14:15 - 16:00	Vaccines against HIV	Giuseppe Pantaleo, CHUV
16:00 - 16:15	BREAK	
16:15 - 17:15	Role of $CD8^+$ T cells in acute infections	Dietmar Zehn, CHUV
17:30 - 18:30	Individual project follow up	Fabienne Tacchini-Cottier Jean-Pierre Krahenbuhl Nathalie Debard
Thu 9 Sept	**Immune response to parasite infection**	
09:00 - 12:00	Mechanism and consequence of persistence of intracellular pathogens : leishmaniasis as an example	Christian Bogdan University of Erlangen
12:15 - 13:15	LUNCH - SEMINAR Immune response to intracellular parasites (to be defined)	Christian Bogdan
RESEARCH AFTERNOON Presentations by PhD Program Faculty Members		
14:00 - 14:45	-Adhesion molecules	Beat Imhof, UNIGE
14:45 - 15:30	-The role of B cell activating factor of the TNF family (BAFF) in B cell homeostatis	Pascal Schneider, DB/UNIL
15:30 - 16:15	-T cell response in melanoma	Daniel Speiser, LICR/CHUV
16:15 - 16:30	BREAK	
16:30 - 17:15	-Control of MHC Class II genes in immune response	Walter Reith, UNIGE
17:15 - 18:00	-Lymphoid stromal cells in diseases	Sanjiv Luther, DB/UNIL
18:00 - 18:45	-Role of interleukin-1 in arthritis	Nathalie Busso, CHUV

Fri 10 Sept	ROLE of B cells in immune response to disease	
09:00 – 09:45	Aberrant B-cell activation and lymphoma	Margot Thome-Miazza, DB/UNIL
09:45 - 10:00	BREAK	
10:00 - 12:00	B - T cell interaction during viral infection	Daniel Pinschewer, UNIGE
12:15 - 13:15	LUNCH - SEMINAR Interaction B-T in viral infections	Daniel Pinschewer, UNIGE
14:00 - 19:00	**Return session** Elaboration of a vaccine Presentation of individual projects by the students Fabienne Tacchini-Cottier, Jean-Pierre Krahenbuhl, Nathalie Debard	
14:15 - 15:00	Groupe 1	
15:00 - 15:45	Groupe 2	
16:00 - 16:45	Groupe 3	
16:45 - 17:30	Groupe 4	
17:30 – 18:15	Groupe 5	
18:30-20:00	DISCUSSION - PIZZA	

Registration Summer course in Immunology (DB021)
simine.aslan@unil.ch – deadline August 15th, 2010

This is an intensive course in immunology, intended for PhD and MD students who wish to expand and update their understanding in the biology of the immune system and its role in health and disease. Attendees will need to have an understanding of the principles of immunology. To this aim, they will have free access to immunology on line and they are strongly encouraged to use it prior the beginning of the course, and the included quiz has to be taken before the beginning to the course (mandatory).

Formal lectures are held in Epalinges in room F302. The tentative schedule of the course is given above; the final version will be provided on August 15th, 2009 on the UNIL portal: http://unil.bio-med.ch. Attendance at the seminar is considered part of the course and is therefore mandatory for the students. A sign up sheet will be circulated each week; it is the student's responsibility to ensure that they sign it as proof of attendance. Students are expected to attend all the sessions. If they cannot do so, for example, because of a scientific meeting etc., they should notify the organizers in advance. A student who misses more than one session will be considered to have failed the course.

Students are expected:

A) To read articles and support material provided by all teachers in the course.
B) The students will be given five main subjects all included in the global design of a vaccine. Groups of 4 students will work together and each of them contribute to the oral and written part of their project. An intermediate session will be held to monitor progresses.
C) For the final exam, students will present their results orally and be prepared to answer all questions related to the content of their part as well as of the course. The presentation should be submitted in written form (Power Point) to the organizers.

-Total hours = 8 hours daily (40h), 30 hours of reading, 20 hours of preparation, 20 hours of writing
-Number of credits “4 ECTS”