

MCB150 Fall 2015: MOLECULAR IMMUNOLOGY

DATE		Lect	TOPIC	INSTR.	Prob Set due in discussion	Others
Thu	27-Aug	1	Overview: Components of the immune system. Innate versus adaptive immunity	Winoto		
Tue	1-Sep	2	Antigens and antibodies, tools	Winoto		
Thu	3-Sep	3	Innate immunity. First line of defense	Winoto		Monday Sept 7, labor day
Tue	8-Sep	4	Innate immunity. Pattern recognition and response to infection	Winoto		
Thu	10-Sep	5	V(D)J Recombination	Winoto	1st	
Tue	15-Sep	6	Enzymes mediating V(D)J Recombination	Winoto		
Thu	17-Sep	7	Class switch recombination and somatic hypermutation	Winoto	2nd	
Tue	22-Sep	8	B cell Development	Winoto		
Thu	24-Sep	9	MHC and MHC function	Winoto	3rd	
Monday	28-Sep		MIDTERM I (L1-8)	145 Dwinelle	6-8PM	
Tue	29-Sep	10	Antigen presentation to T lymphocytes	Winoto		
Thu	1-Oct	11	T-cell signaling	Winoto		
Tue	6-Oct	12	T cell development 1	Winoto		
Thu	8-Oct	13	T cell development 2	Winoto	4th	
Tue	13-Oct	14	T cell tolerance/AIRE	Winoto		
Thu	15-Oct	15	Peripheral tolerance/Treg	Winoto	5th	
Tue	20-Oct	16	Cytotoxic T cells, apoptosis	Winoto		
Thu	22-Oct	17	T helper subsets: Th1/2/17	Winoto	6th	
Monday	26-Oct		MIDTERM II (L9-17)	145 Dwinelle	6-8PM	
Tue	27-Oct	18	T cell subsets in infection	Coscoy		
Thur	29-Oct	19	The mucosal immune system	Coscoy		
Tue	3-Nov		no lecture			
Thu	5-Nov		no lecture			
Tue	10-Nov	20	The course of the immune response to infection	Coscoy		Wed Nov 11, holiday
Thu	12-Nov	21	Immunological memory	Coscoy	7th	
Tue	17-Nov	22	Failure of host defense mechanisms/HIV	Coscoy		
Thu	19-Nov	23	Allergy and hypersensitivity	Coscoy	8th	
Tue	24-Nov	24	Autoimmunity	Coscoy		Nov 25, non instructional day
Thu	26-Nov		THANKSGIVING			
Tue	1-Dec	25	Tumor immunology	Coscoy		
Thu	3-Dec	26	Manipulation of the immune response	Coscoy	9th	
Tue	12/7/2015-Dec 11		RRR			
Thu	15-Dec		Midterm III (L18-26)	Group 7	3-5 pm	
Sections	Date		topics			
	27-Aug	28-Aug	Overview			
	3-Sep	4-Sep	antibodies and tools			
	10-Sep	11-Sep	Molecular biology techniques/transgenic/knockout			
	17-Sep	18-Sep	review			
	24-Sep	25-Sep	review			
	1-Oct	2-Oct	Inbred mouse strains, MHC nomenclature			
	8-Oct	9-Oct	Review			
	15-Oct	16-Oct	Journal Club: He et al (2005). The zinc finger transcription factor Th-POK regulates CD4 versus CD8 T-cell lineage commitment. Nature 433, 826-833.			
	22-Oct	23-Oct	Signal transduction			

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	29-Oct	30-Oct	<i>Mini-review: Life of a T cell</i>			
	5-Nov	6-Nov	Journal Club: Barber, DL et al (2006) Restoring function in exhausted CD8 T cells during chronic viral infection. Nature 439: 682-687			
	12-Nov	13-Nov	Review-- <i>Infectious Diseases</i>			
	19-Nov	20-Nov	Review -- <i>Vaccines Hypersensitivities</i>			
	26-Nov	27-Nov	Thanksgiving			
	3-Dec	4-Dec	Review			
	Office hours	location	email address			
	Thurs 1-2	447 LSA	winoto@berkeley.edu			
	Mon 10-11	447 LSA	lcocoy@berkeley.edu			
Instructors						
Dr. Astar Winoto						
Dr Laurent Coscoy	Office hours	location	email address			
	Tue 1-2 pm	448 LSA	chris.mcb150@gmail.com	Thurs sessions (Thur 1-2, 2-3)		
	Friday 4-5 pm	448 LSA	eknichols@berkeley.edu	Friday sessions (Fri 9-10, 12-1)		
GSIs						
Christopher Nicolai			janeway's Immunobiology 8th edition			
Eva Nichols	Grading					
	Midterm 1				150	
Course text (optional)	Midterm 2				150	
	Midterm 3				150	
	Sections (attendance 18pts, problem sets 18pts, participation 14 pts)				50	
			total		500	