

MCB150 Fall 2017: MOLECULAR IMMUNOLOGY

DATE		Lect	TOPIC	INSTR.	Prob Set due in discussion
Thu	24-Aug	1	Overview: Components of the immune system. Innate versus adaptive immunity	Winoto	
Tue	29-Aug	2	Antigens and antibodies, tools	Winoto	
Thu	31-Aug	3	Innate immunity. First line of defense	Winoto	
Tue	5-Sep	4	Innate immunity. Pattern recognition and response to infection	Winoto	
Thu	7-Sep	5	V(D)J Recombination	Winoto	1st
Tue	12-Sep	6	Enzymes mediating V(D)J Recombination	Winoto	
Thu	14-Sep	7	Class switch recombination and somatic hypermutation	Winoto	2nd
Tue	19-Sep	8	B cell Development	Winoto	
Thu	21-Sep	9	MHC and MHC function	Winoto	3rd
Tue	26-Sep		MIDTERM I (L1-8 & part of 9), 7-9pm	100 GPBB	
Thu	28-Sep	10	Antigen presentation to T lymphocytes	Winoto	
Tue	3-Oct	11	T-cell signaling	Winoto	
Thu	5-Oct	12	T cell development 1	Winoto	
Tue	10-Oct	13	T cell development 2	Winoto	
Thu	12-Oct	14	T cell tolerance/AIRE	Winoto	4th
Tue	17-Oct	15	Peripheral tolerance/Treg	Winoto	
Thu	19-Oct	16	Cytotoxic T cells, apoptosis	Winoto	5th
Tue	24-Oct	17	T helper subsets: Th1/2/17	Winoto	
Thur	26-Oct	18	T cell subsets in infection	Coscoy	6th
Tue	31-Oct		MIDTERM II (L9-17), 7-9pm	100 GPBB	
Thu	2-Nov	19	The mucosal immune system	Coscoy	
Tue	7-Nov	20	The course of the immune response to infection	Coscoy	
Thu	9-Nov	21	Immunological memory	Coscoy	
Tue	14-Nov	22	Failure of host defense mechanisms/HIV	Coscoy	7th
Thu	16-Nov	23	Allergy and hypersensitivity	Coscoy	
Tue	21-Nov	24	Autoimmunity	Coscoy	8th
Thu	23-Nov		THANKSGIVING		
Tue	28-Nov	25	Tumor immunology	Coscoy	
Thu	30-Nov	26	Manipulation of the immune response	Coscoy	9th
Tue	Dec 4-8, 2017		RRR		
Thursday	14-Dec		Midterm III (L18-26)	Group 15	3-6 pm
Sections	Date		topics		
	24-Aug	25-Aug	Overview		
	31-Aug	1-Sep	antibodies and tools		
	7-Sep	8-Sep	Molecular biology techniques/transgenic/knockout		
	14-Sep	15-Sep	review		
	21-Sep	22-Sep	review		
	28-Sep	29-Sep	Inbred mouse strains, MHC nomenclature		
	5-Oct	6-Oct	Review		

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	12-Oct	13-Oct	Journal Club: van Elsas A, Hurwitz AA, and Allison JP (1999). J. Exp. Med. 190: 355-366.		
	19-Oct	20-Oct	Signal transduction		
	26-Oct	27-Oct	Mini-review: Life of a T cell		
	2-Nov	3-Nov	Journal Club: Barber, DL et al (2006) Restoring function in exhausted CD8 T cells during chronic viral infection. Nature 439: 682-687		
	9-Nov	10-Nov	No discussion sections this week because Friday Nov 11 is a holiday		
	16-Nov	17-Nov	Review -- Vaccines Hypersensitivities		
	23-Nov	24-Nov	Thanksgiving		
	30-Nov	1-Dec	Review		
Instructors	Office hours	location	email address		
Dr. Astar Winoto	Tue 3:30-4:30	447 LSA	winoto@berkeley.edu	Additional office hours to be announced	
Dr. Laurent Coscoy	Tue 3:30-4:30	447 LSA	lcoscoy@berkeley.edu	Additional office hours to be announced	
GSIs					
Natalie Wolf	Tue 10-11	448 LSA	natalie_wolf@berkeley.edu	Sections 103/104: Thur 2-3, Friday 9-10	
Justin Rocaioli	Thurs 10-11	448 LSA	justin_roncaioli@berkeley.edu	Sectionis 101/102: Thurs 3-4, Fri 12-1	
Course text (optional for background reading)			janeway's Immunobiology 8th or 9th edition		
	Grading				
	Midterm 1				150
	Midterm 2				150
	Midterm 3		total		150
	Miscellaneous (section participation 20 pts problem sets 18pts, online evaluations 12 pts)				50
					500