

Medical Microbiology (PAMB D650)

Fall 2011

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Lectures will be given in classroom M-II. POPS exercises will be held in the Multi-disciplinary and Histology labs. Lecture times in grey boxes indicate times that are not usually Med Micro times.

Lec. #	Day/Date	Time	Topic	Instructor
	Mon 08/08	11-12 PM	Introduction to Medical Microbiology	Patton
			Introduction to Immunology	Nyland
IMMUNOLOGY				
1	Tues 08/09	8-9 AM	Anatomy of the Immune System	Nyland
2		9-10 AM	Innate (Nonspecific) Immunity	Nyland
3	Wed 08/10	10-11 AM	Complement	Robinson
4		11-12 PM	Antigens	Nyland
5	Thur 08/11	8-9 AM	Cells of the Immune System and Antigen Recognition	Nyland
6		9-10 AM	Immunoglobulins: Structure and Function 1	Robinson
7	Fri 08/12	10-11 AM	Immunoglobulins: Structure and Function II	Robinson
8		11-12 PM	Immunoglobulins: Isotypes, Allotypes and Idiotypes	Robinson
9	Mon 08/15	11-12 PM	Immunoglobulins: Genetics	Robinson
10	Tues 08/16	8-9 AM	T Cell Receptor and Major Histocompatibility Complex: Role in Immune Responses	Nyland
11		9-10 AM	Antigen Processing and Presentation, MHC Restriction and Role of the Thymus	Nyland
12	Wed 08/17	10-11 AM	Antigen-Antibody Reactions and Selected Tests	Robinson
13		11-12 PM	Antibody formation and Immunization	Robinson
14	Thur 08/18	8-9 AM	Cell-cell interactions	Nyland
15		9-10 AM	Cytokines	Nyland
	Fri 08/19	10-12 PM	Review session (lectures 1-15)	Nyland / Robinson
16	Mon 08/22	11-12 PM	Major Histocompatibility Complex – Genetics and Role in Transplantation Immunology	P. Nagarkatti
	Tues 08/23	8-10 AM	INDEPENDENT PROBLEM SOLVING (POPS): 1 Tetanus Immunization	Nyland / Robinson
17	Wed 08/24	10-11 AM	Tolerance	P. Nagarkatti
18		11-12 PM	Autoimmunity	P. Nagarkatti
19	Thur 08/25	10-11 AM	Hypersensitivity States I & II	P. Nagarkatti
20		11-12 PM	MS Case Study	P. Nagarkatti
	Fri 08/26	10-12 PM	INDEPENDENT PROBLEM SOLVING (POPS): 2 Transplantation Immunology	P. Nagarkatti M. Nagarkatti
21	Mon 08/29	11-12 PM	Hypersensitivity States III & IV	P. Nagarkatti
	Tues 08/30	08-10 AM	INDEPENDENT PROBLEM SOLVING (POPS): 3 Immediate Hypersensitivity	P. Nagarkatti / Nyland
22	Wed 08/31	10-11 AM	Tumor Immunology	M. Nagarkatti
23		11-12 PM	Immunotherapy Case Study	M. Nagarkatti
24	Thur 09/01	8-9 AM	Immunodeficiencies I	M. Nagarkatti

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25		9-10 AM	Immunodeficiencies II	M. Nagarkatti
	Fri 09/02	10-12 PM	INDEPENDENT PROBLEM SOLVING (POPS): 4 Immunodeficiency Disease	M. Nagarkatti / Robinson
	Mon 09/05		LABOR DAY – No Classes	
BACTERIALOLOGY				
26	Tues 09/09	8-9 AM	Bacterial Cell	A. Fox
27		9-10 AM	Culture and identification of infectious agents	A. Fox
	Wed 09/07	10-12 PM	Review Session (Lectures 16-25)	P. Nagarkatti M. Nagarkatti
	Thur 09/08	8-10 AM	EXAM 1 (Lectures 1-25)	
28	Fri 09/09	10-11 AM	Nutrition growth and metabolism	A. Fox
29		11-12 PM	External layers of vegetative cells and spores	A. Fox
30	Mon 09/12	11-12 PM	Antibiotics: Cell Envelope	A. Fox
31	Tues 09/13	8-9 AM	Antibiotics: Protein Synthesis, Nucleic Acid Synthesis, and Metabolism	Patton
32		9-10 AM	Exchange of Genetic Information I	Patton
33	Wed 09/14	10-11 AM	Exchange of Genetic Information II	Patton
34		11-12 PM	Genetic Regulatory Mechanisms	Patton
35	Thur 09/15	8-9 AM	General Aspects of Bacterial Pathogenesis	A. Fox
36		9-10 AM	<i>Enterobacteriaceae</i> I (Gram negative rods, enteric tract)	A. Fox
37	Fri 09/16	10-11 AM	<i>Enterobacteriaceae</i> II; <i>Vibrio</i> and <i>Campylobacter</i> (Gram negative rods, enteric tract)	A. Fox
38		11-12 PM	<i>Neisseria</i> and Spirochetes (Gram negative)	A. Fox
39	Mon 09/19	11-12 PM	<i>Streptococci</i> (Gram positive cocci)	A. Fox
	Tues 09/20	8-10 AM	Review Session (Lectures 26-39)	A. Fox/ Patton
40	Wed 09/21	10-11 AM	<i>Streptococcus pneumoniae</i> and <i>Staphylococci</i> (Gram positive cocci)	A. Fox
41		11-12 PM	Anaerobes and <i>Pseudomonas</i>	A. Fox
42	Thur 09/22	10-11 AM	<i>Mycobacteria</i> and <i>Corynebacteria</i>	A. Fox
43		11-12 PM	<i>Legionella</i> , <i>Bordetella</i> and <i>Haemophilus</i> (Gram negative rods, respiratory tract)	K. Fox
44	Fri 09/23	10-11 AM	<i>Brucella</i> , <i>Francisella</i> and <i>Yersinia</i> (Gram negative rods, zoonoses)	K. Fox
45		11-12 PM	<i>Bacillus</i> , <i>Listeria</i> and <i>Erysipelothrix</i> (Gram positive rods, zoonoses)	K. Fox
46	Mon 09/26	11-12 PM	Organisms of Bioterrorism	K. Fox
47	Tues 09/27	8-9 AM	<i>Mycoplasma</i> and <i>Ureaplasma</i>	Patton
48		9-10 AM	<i>Chlamydia</i>	Patton
49	Wed 09/28	10-11 AM	<i>Rickettsia</i> , <i>Ehrlichia</i> , <i>Coxiella</i> and <i>Bartonella</i>	Patton
VIROLOGY				
50	Wed 09/28	11-12	Virus Definitions and Structure	Pirisi-Creek
51	Thur 09/29	10-11 AM	Virus Structure, Classification and Replication	Pirisi-Creek
52		11-12 PM	DNA Virus Replication Strategies I	Pirisi-Creek
	Fri 09/30	10-12 AM	Review Session (lectures 40-49)	Foxes / Patton
	Mon 10/03	11-12 AM	Independent Study – No Microbiology Class	

Lec. #	Day/Date	Time	Topic	Instructor
	Tues 10/04	8-10 AM	EXAM 2 (Lectures 26-49)	
53	Wed 10/05	10-11 AM	DNA Virus Replication Strategies II	Pirisi-Creek
54		11-12 AM	DNA tumor viruses	Pirisi-Creek
55	Thur 10/06	8-9 AM	RNA Virus Replication Strategies I	Pirisi-Creek
56		9-10 AM	RNA Virus Replication Strategies II	Pirisi-Creek
57	Fri 10/07	10-11 AM	RNA viruses and retroviruses	Pirisi-Creek
58		11-12 AM	Viral Genetics I	Pirisi-Creek
59	Mon 10/10	11-12 AM	Viral Genetics II	Pirisi-Creek
	Tues 10/11	8-10 AM	Review Session (lectures 50-59)	Pirisi-Creek
60	Wed 10/12	10-11 AM	Viral zoonoses I	Pirisi-Creek
61		11-12 AM	Enteroviruses and other Picornaviruses	Gangemi
62	Thur 10/13	1-2 PM	Herpesvirus I	Gangemi
63		2-3 PM	Herpesvirus II	Gangemi
64	Fri 10/14	10-11 AM	Influenza virus I	Gangemi
65		11-12 PM	Influenza virus I	Gangemi
66	Mon 10/17	11-12 PM	Viral zoonoses II	Pirisi-Creek
67	Tues 10/18	8-9 AM	Parainfluenza, Respiratory Syncytial and Adeno Viruses	Pirisi-Creek
68		9-10 AM	Rotaviruses and Other Agents of Viral Gastroenteritis	Albrecht
69	Wed 10/19	10-11 AM	Anti-viral Chemotherapy	Chauhan
70		11-12 PM	Measles, Mumps, Rubella	Pirisi-Creek
	Thurs 10/20 Fri 10/21		FALL BREAK NO CLASSES	
71	Mon 10/24	11-12 PM	Slow Virus Diseases	Pirisi-Creek
72	Tues 10/25	8-9 AM	Hepatitis Viruses I	Duffus
73		9-10 AM	Hepatitis Viruses II	Duffus
	Wed 10/26	10-11 AM	INDEPENDENT PROBLEM SOLVING in Virology due by 5:00 on 11/01/10	Pirisi-Creek
	Thurs 10/27	8-10 AM	Review Session (60-73)	Pirisi-Creek Chauhan
	Fri 10/28	8-10 AM	EXAM 3 (Lectures 50-73)	
MYCOLOGY				
74	Mon 10/31	11-12 PM	Introduction to Mycology	Murphy
75	Tues 11/01	8-9 AM	Yeasts and Dermatophytes	Murphy
76		9-10 AM	Filamentous Fungi	Murphy
77	Wed 11/02	10-11 AM	Dimorphic Fungi	Murphy
78		11-12 PM	Opportunistic Fungi	Ai
PARASITOLOGY				
79	Thur 11/03	11-12 PM	Intestinal and Luminal Protozoa-I	Singh
80	Fri 11/04	10-11 AM	Intestinal and Luminal Protozoa-II	Singh

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81		11-12 PM	Blood Protozoa-I	Singh
82	Mon 11/07	11-12 PM	Blood Protozoa-II	Singh
83	Tues 11/08	8-9 AM	Nematodes-I	Brower
84		9-10 AM	Nematodes-II	Brower
85	Wed 11/09	10-11 AM	Cestodes	Brower
86		11-12 PM	Trematodes & Arthropods	Brower
	Thurs 11/10	8-9 AM	Independent Study – No Microbiology Class	
	Fri 11/11	10-12 PM	Review Session (lectures 74-86)	Singh, Ai, Murphy & Brower
	Mon 11/14	11-12 PM	Independent Study – No Microbiology Class	
	Tues 11/15	8-9 AM	EXAM 4 (lectures 74-86) 50 minute exam	
Selected Topics in Infectious Disease				
C1	Tues 11/15	9-10 AM	CLINICAL CORRELATION CONFERENCE: Clinical infectious diseases: an introduction	Horvath
C2	Wed 11/16	10-11 AM	CLINICAL CORRELATION CONFERENCE: Upper respiratory infections, infections of head and neck	Ahuja
C3		11-12 PM	CLINICAL CORRELATION CONFERENCE: Lower Respiratory Infections	Ahuja
C4	Thurs 11/17	8-9 AM	CLINICAL CORRELATION CONFERENCE: Sexually Transmitted Diseases	Ahuja
C5		9-10 AM	CLINICAL CORRELATION CONFERENCE: Sepsis	Ahuja
C6	Fri 11/18	10-11 AM	CLINICAL CORRELATION CONFERENCE: Infections of Skin and its Appendages, Muscle and Bone	Horvath
C7		11-12 PM	CLINICAL CORRELATION CONFERENCE: Mycobacterial Infections	Horvath
C8	Mon 11/21	11-12 PM	CLINICAL CORRELATION CONFERENCE: AIDS	Duffus
C9	Tues 11/12	8-9 AM	CLINICAL CORRELATION CONFERENCE: Gastrointestinal Tract Infections	Dash
C10		9-10 AM	CLINICAL CORRELATION CONFERENCE: Urinary Tract Infections	Dash
	Wed 11/23	10-12 PM	No Microbiology Class	
THANKSGIVING BREAK – NO Classes				
Independent study – No Microbiology Class				
C11	Tues 11/29	8-9 AM	CLINICAL CORRELATION CONFERENCE: Central Nervous System Infections	Albrecht
C12		9-10 AM	CLINICAL CORRELATION CONFERENCE: Infectious Disease Emergencies	Albrecht
	Wed 11/30		READING DAY	
FINAL EXAM (NBME shelf exam on Microbiology and Immunology)				