

SCMI 513 Infectious Diseases and Immunity 4(4-0)

Academic Year 2010

Department of Microbiology, Faculty of Science

Room Pr. 612

Course coordinator: Sukathida Ubol (Room: Pr.614 / Tel.: 02-201-5674)

Date	Time	Topic (Lecture, Discussion, Exam.)	Staff
Mon 9 Aug	0900-0930	Orientation & Pick up handout	Sukathida
	0930-1130	Lecture 1: An overview on the immune responses against microbial infection	Stitaya
Wed 11 Aug	0900-1000	Lecture 2: Mechanisms of innate immunity against infection	Pongsak
	1000-1100	Lecture 3: : Innate immune receptor and microbe interaction I	Pongsak
	1100-1200	Lecture 4: : Innate immune receptor and microbe interaction II	Pongsak
Mon 16 Aug	0900-1000	Lecture 5: Principle of adaptive immunity I / Ag processing and presentation of microbe ; MHC roles and cross presentation	Molvibha
	1000-1100	Lecture 6: Principle of adaptive immunity II / Lymphocyte development and survival signal	Molvibha
	1100-1200	Lecture 7: Adaptive immune receptors / TCR and other receptors	Molvibha
Wed 18 Aug	0900-1000	Lecture 8: Effector mechanisms of immune response / Adaptive immunity effector and Innate immunity as Adaptive immunity effector	Molvibha/Pongsak
	1000-1100	Lecture 9: Regulation of immune response to microbial infection / Innate to Adaptive and CMI to HIR	Molvibha
	1100-1200	Lecture 10: Mucosal immunity / immune mechanism to flora microorganism in gastrointestinal tract and oral tolerance	Molvibha
Fri 20 Aug	0900-1000	Lecture 11: Immunological disorders, role of microbes	Ponpan
	1000-1200	Panel discussion: Evolution of the immune system	Stitaya, Pornchai, Molvibha, Pongsak
Mon 23 Aug	0900-1200	Self-Study	Students

Wed 25 Aug	0900-1200	EXAMINATION I (Immunology)	Sukathida
Fri 27 Aug	0900-1100	Lecture 14: Bacterial cell structure and classification	Chartchai
	1100-1200	Lecture 15: Bacterial-host interaction	Prasit
Mon 30 Aug	0900-1000	Lecture 16: Bacterial –host interaction II	Prasit
	1000-1200	Lecture 17: : Pathogenesis of extracellular bacteria	Padungsri
Wed 1 Sep	0900-1100	Lecture 18: Pathogenesis of intracellular bacteria II	Padungsri
	1100-1200	Lecture 19: Regulation of virulence gene expression I	Soraya
Fri 3 Sep	0900-1000	Lecture 20: Regulation of virulence gene expression II	Soraya
	1000-1200	Lecture 21: : Bacterial drug resistance and drug discovery	Prasit
Mon 6 Sep	0900-1100	Lecture 22: Pathogenic fungi and mycoses	Suthep
	1100-1200	Lecture 23: Molecular biology of fungal virulence I	Suthep
Wed 8 Sep	0900-1000	Lecture 24: Molecular biology of fungal virulence II	Suthep
	1000-1100	Lecture 25: Host response to pathogenic fungi	Suthep
	1100-1200	Lecture 26: Antifungal drugs: mechanism of action, resistance, and new drug discovery	Suthep
Fri 10 Sep	0900-1000	Lecture 27: Laboratory diagnosis of fungal infection	Suthep
	1000-1200	Group discussion: Opportunistic fungal infections	Suthep, Chartchai
Mon 13 Sep	0900-1200	EXAMINATION II (Bacteria and fungi)	Sukathida
Wed 15 Sep	0900-1000	Lecture 28: Structure and Nature of virus	Sukathida
	1000-1100	Lecture 29: Subviral agents	Radeekorn
	1100-1200	Lecture 30: Entry of viruses into host cells	Radeekorn
Fri 17 Sep	0900-1100	Lecture 31: Viral replication strategies	Sukathida
	1100-1200	Lecture 32: Virus-host cell interaction	Saowakon
Mon 20 Sep	0900-1000	Lecture 33: Immune response to viral infection	Ponpan
	1000-1100	Lecture 34: Viral pathogenesis	Arunee
	1000-1200	Lecture 35: Biology and the significances of DNA viruses I	Sukathida

Wed 22 Sep	0900-1000	Lecture 36: Biology and the significance of DNA viruses II	Sukathida
	1000-1100	Lecture 37: Viral oncogenesis	Saowakon
	1100-1200	Lecture 38: Biology and the significance of RNA viruses I	Arunee
Fri 24 Sep	0900-1000	Lecture 39: Biology and the significances of RNA viruses II	Arunee
	1000-1100	Lecture 40: HIV / AIDS	Arunee
	1100-1200	Lecture 41: Influenza virus	Arunee
Mon 27 sep	900-1030	Special Lecture: The shrimp responses to viral pathogens	Tim
Wed 29 Sep	0900-1200	EXAMINATION III (Virology)	
Fri 1 Oct	0900-1000	Lecture 42: Introduction to Parasitology	Peerapan
	1000-1100	Lecture 43: Biology and life cycles of medical important protozoa	Peerapan
	1100-1200	Lecture 44: Entry and establishment of protozoa	Peerapan
Mon 4 Oct	0900-1100	Lecture 45: Pathogenesis of protozoal infection	Peerapan
	1100-1200	Lecture 46: Pathogenesis of malaria	Peerapan
Wed 6 Oct	0900-1100	Lecture 47: Biology and life cycles of medical important helminthes	Araya
	1100-1200	Lecture 48: Pathogenesis of helminthic infection 1	Araya
Fri 8 Oct	0900-1000	Lecture 49: Pathogenesis of helminthic infection 2	Araya
	1000-1200	Lecture 50: Host-parasite infection and failure to eliminate parasites	Araya
Mon 11 Oct	0900-1100	Discussion: Parasitic infections and cancer	Araya, Peerapan, Sureemas, Marisa, Pilai
Wed 13 Oct	900-1100	Discussion: Zoonoses	Pilai/ Peerapan/ Araya/ Sureemas/ Marisa
Fri 15 Oct	0900-1100	Lecture 12: Vaccinology	Sathit
	1100-1200	Lecture 13: Immunotherapy	Sathit
Mon 18 Oct	0900-1200	EXAMINATION IV (Parasitology)	Sukathida

50 Lecture (64 hr.); 1. Group discussion by students, (2 hr.) and 2 group discussions by staffs(4 hr.); 1 Panel discussion by staffs (2 hr.); with a total of 68 hr.