

UNIVERSITY OF CAMBRIDGE: DEPARTMENT OF PATHOLOGY
NATURAL SCIENCES TRIPOS
PART II PATHOLOGY
2017 – 2018

MICROBIOLOGY AND PARASITOLOGY

Organisers:

Dr G. M. Fraser (microbiology; tel. 330245, email: microbiology-organiser@path.cam.ac.uk)

Dr S. Wilson (parasitology; tel. 333332, email: parasitology-organiser@path.cam.ac.uk)

Lectures will be given in the Pathology Lecture Theatre at Tennis Court Road and commence at 9.00 am on Mondays, Wednesdays and Fridays, unless stated otherwise.

MICHAELMAS TERM 2017

Wed	Oct	4	3.00 pm		Introduction to Part II	Kelly
Fri	Oct	6	9.00 am	1	Bacterial signalling	Fraser
Mon	Oct	9	9.00 am	2	Data interpretation for Part II Pathology	Trotter
Wed	Oct	11	9.00 am	3	Bacterial communication	Fraser
Fri	Oct	13	9.00 am	4	Bacterial motility	Fraser
Mon	Oct	16	9.00 am	5	Bacterial flagellum biogenesis and function	Fraser
Wed	Oct	18	9.00 am	6	Colonization of host surfaces: adhesion mechanisms	Koronakis
Fri	Oct	20	9.00 am	7	Colonization of host surfaces: biofilms	Fraser
Mon	Oct	23	9.00 am	8	Extracellular survival: defensive and offensive mechanisms	Koronakis
Wed	Oct	25	9.00 am	9	Extracellular survival: phase and antigenic variation	Koronakis
Fri	Oct	27	9.00 am	10	Bacterial invasion of non-phagocytic host cells	Hayward
Mon	Oct	30	9.00 am	11	Dissemination and exit strategies of intracellular pathogens	Hayward
Wed	Nov	1	9.00 am	12	Intracellular survival of bacterial pathogens I	Koronakis
Fri	Nov	3	9.00 am	13	Intracellular survival of bacterial pathogens II	Koronakis
Mon	Nov	6	9.00 am	14	Protein toxins: cytolysins	Hume
Wed	Nov	8	9.00 am	15	Protein toxins: targeting cell-cell adhesion and vesicle traffic	Hume
Fri	Nov	10	9.00 am	16	Protein toxins: manipulating intracellular signalling	Hume
Fri	Nov	10	2.00 - 4.00 pm		Journal Presentations (Seminar Room)	Hughes
Mon	Nov	13	9.00 am	17	Protein toxins: disrupting the cytoskeleton, cell cycle and protein synthesis	Hume
Thur	Nov	16	2.00 - 4.00 pm		Journal Presentations (Seminar Room)	Hughes
Wed	Nov	17	9.00 am	18	Vaccines: past and present	Trotter
Fri	Nov	17	10.15 am	19	Modern approaches to vaccine development	Trotter
Mon	Nov	20	9.00 am	20	Antibiotic resistance: evolution and significance	Crow
Wed	Nov	22	9.00 am	21	Antibiotic resistance: molecular mechanisms	Crow
Fri	Nov	24	9.00 am	22	Antibiotic resistance: efflux pumps	Crow
Mon	Nov	27	9.00 am	23	Experimental approaches to bacterial pathogenesis I	Fraser

Wed	Nov	29	9.00 am	24	Experimental approaches to bacterial pathogenesis II	Fraser
Wed	Nov	29	2.00 - 4.00 pm		Journal Presentations (Seminar Room)	Hughes
Fri	Dec	1	NO LECTURE			

LENT TERM 2018

Major Protozoan Diseases

Wed	Jan	17	9.00 am		Intro to Apicomplexa	Bull
		17	4.00 pm		Toxoplasma	Ajioka
Fri	Jan	19	2.00 pm		Coccidia: pathogenesis	Blake
		19	3.15 pm		Coccidia: control	Blake
Wed	Jan	24	9.00 am		<i>No Lecture</i>	
Fri	Jan	26	9.00 am		Introduction to <i>Plasmodium</i> species	Bull
Mon	Jan	29	9.00 am		Plasmodium: immune evasion & immunity	Bull
Wed	Jan	31	9.00 am		Plasmodium: cell invasion	Rayner
Wed	Jan	31	1.30 – 3pm*		Paper Presentations	Artavanis-Tsakonas
Fri	Feb	2	9.00 am		Plasmodium: vector biology	Howick
Mon	Feb	5	9.00 am		Plasmodium: Pathology	Artavanis-Tsakonas
Wed	Feb	7	9.00 am		Plasmodium: Vaccines and control	Blagborough
Fri	Feb	9	9.00 am		NO LECTURE	
Mon	Feb	12	9.00 am		Chemotherapy: anti-protozoal strategies (confirmed)	Croft
Wed	Feb	14	2.00 pm		Trypanosomatids: <i>T. brucei</i> (confirmed)	Kelly
Wed	Feb	14	3.15 pm		Trypanosomatids: <i>T. cruzi</i>	Kelly

Major Helminth Diseases

Fri	Feb	16	9.00am		Helminths: epidemiology 1 – gut nematodes	Wilson
Mon	Feb	19	9.00am		Helminths: epidemiology 2 - schistosomiasis	Wilson
Wed	Feb	21	9.00 am		Trypanosomatids: Leishmania	Cotton
Fri	Feb	23	9.00 am		NO LECTURE	
Mon	Feb	26	9.00 am		Helminths: immunity 1 – gut mucosal	Wilson
Wed	Feb	28	9.00 am		Helminths: immunity 2 - IgE	Wilson
Wed	Feb	28	1.30 – 3pm*		Paper Presentations	Wilson
Fri	Mar	2	9.00 am		Helminths: immuno-regulation	Wilson
Mon	Mar	5	9.00 am		Helminths: morbidity 1 – pathology	Wilson
Wed	Mar	7	9.00 am		Helminths: morbidity 2 - subtle morbidities	Wilson
Fri	Mar	9	10am - noon		Data Handling (Single Subject only)*	Wilson
Mon	Mar	12	NO LECTURE			
NWed	Mar	14	2.00pm		Cestodes	Olson
Fri	Mar	16	NO LECTURE			

EASTER TERM 2018

Wed	Apr	25	9am – 11am*	Tutorial Microbiology	
Fri	Apr	27	NO LECTURE		
Mon	Apr	30	9.00 am	Epidemiology I: microparasite population dynamics (confirmed)	Michael
			10.15am	Epidemiology II: macroparasite population dynamics	Michael
Tue	May	1	2 – 4pm*	Tutorial Parasitology	
Wed	May	2	9.00 am	Epidemiology III: vector-borne parasite population dynamics	Michael
			10.15 am	Epidemiology IV: parasite case study - Lymphatic filariasis	Michael
Fri	May	4	9.00 am	Epidemiology V: disease control	Michael
			10.15 am	Epidemiology VI: climate change & health	Michael
Mon	May	7	NO LECTURE – BANK HOLIDAY		
Wed	May	9	9.30 am – 1pm	Part II Project and Dissertation Seminars*	

*Seminar Room – Dept. of Pathology, T.C.R.

**Bank Holiday

Bibliographic IT training will be available on multiple dates at the start of Michaelmas Term. Students need only to attend one of the sessions. Please complete the form available here to select the session you will attend <https://www.surveymonkey.co.uk/r/PathPartII-2017>