

**UNIVERSITY OF CAMBRIDGE: DEPARTMENT OF PATHOLOGY**  
**NATURAL SCIENCES TRIPOS**  
**PART II PATHOLOGY**  
**2018 – 2019**  
**MICROBIOLOGY AND PARASITOLOGY**

**Organiser:**  
**Dr R.D. Hayward**

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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 2018**

Wed	Oct	3	3.00 pm		Introduction to Part II	Kelly
Fri	Oct	5	9.00 am	1	Bacterial signaling	Fraser
Mon	Oct	8	9.00 am	2	Bacterial communication	Fraser
Wed	Oct	10	9.00 am	3	Data interpretation for Part II Pathology	Trotter
Fri	Oct	12	9.00 am	4	Bacterial motility	Fraser
Mon	Oct	15	9.00 am	5	Colonization of host surfaces: biofilms	Fraser
Wed	Oct	17	9.00 am	6	Colonization of host surfaces: adhesion mechanisms	Koronakis
Fri	Oct	19	9.00 am	7	Extracellular survival: defensive and offensive mechanisms I	Koronakis
Mon	Oct	22	9.00 am	8	Extracellular survival: defensive and offensive mechanisms II	Koronakis
Wed	Oct	24	9.00 am	9	Bacterial invasion of non-phagocytic cells	Koronakis
Fri	Oct	26	9.00 am	10	Dissemination and exit strategies of intracellular pathogens	Koronakis
Mon	Oct	29	9.00 am	11	Intracellular survival: living within the endocytic system	Hayward
Wed	Oct	31	9.00 am	12	Intracellular survival: <i>Legionella</i> containing vacuoles	Hayward
Fri	Nov	2	9.00 am	13	Intracellular survival: the chlamydial inclusion	Hayward
Mon	Nov	5	9.00 am	14	Protein toxins: cytolysins	Hume
Wed	Nov	7	9.00 am	15	Protein toxins: targeting cell-cell adhesion and vesicle traffic	Hume
Fri	Nov	9	9.00 am	16	Protein toxins: manipulating intracellular signalling	Hume
Fri	Nov	9	2.00 - 4.30 pm		<b>Journal Presentations (Seminar Room)</b>	Hughes
Mon	Nov	12	9.00 am	17	Protein toxins: disrupting the cytoskeleton, cell cycle and protein synthesis	Hume
Wed	Nov	14	9.00 am	18	Vaccines: past and present	Trotter
Thur	Nov	15	2.00 – 4.30 pm		<b>Journal Presentations (Seminar Room)</b>	Hughes
Fri	Nov	16	9.00 am	19	Modern approaches to vaccine development	Trotter
Mon	Nov	19	9.00 am	20	Pathogen evolution & vaccine escape	Bentley
Wed	Nov	21	9.00 am	21	Antibiotic resistance: molecular mechanisms	Fraser
Fri	Nov	23	9.00 am	22	Antibiotic resistance: efflux pumps	Koronakis
Mon	Nov	26	9.00 am	23	Experimental approaches to bacterial pathogenesis I	Hayward

Wed	Nov	28	9.00 am	24	Experimental approaches to bacterial pathogenesis II	Hayward
Wed	Nov	28	2.00 - 4.30 pm		<b>Journal Presentations (Seminar Room)</b>	Hughes
Fri	Nov	30	<b>NO LECTURE</b>			

#### LENT TERM 2019

Wed	Jan	16	9.00am	1	Intro to Parasites	Merrick
Fri	Jan	18	2.00pm	2	Coccidia: pathogenesis	Blake
Fri	Jan	18	3.15pm	3	Coccidia: control	Blake
Mon	Jan	21	9.00am	4	Toxoplasma	Ajioka
Wed	Jan	23	9.00am	5	Toxoplasma	Ajioka
Wed	Jan	23	1.30-3.00pm		<b>Paper presentations</b>	<b>Merrick</b>
Fri	Jan	25	9.00am	6	Plasmodium: cell invasion	Rayner
Mon	Jan	28	9.00am	7	Plasmodium: immune evasion	Merrick
Wed	Jan	30	9.00am	8	Malaria in the mosquito	Blagborough
Wed	Jan	30	1.30-3.00pm		<b>Paper presentations</b>	<b>Blagborough</b>
Fri	Feb	1	9.00am	9	Plasmodium: vector biology	St Laurent
Mon	Feb	4	9.00am	10	Plasmodium: pathology	Artavanis-Tsakonas
Wed	Feb	6	9.00am	11	Malaria vaccines	Blagborough
Fri	Feb	8	9.00am	12	Trypanosomatids: Leishmania	Croft
Fri	Feb	8	2.00pm	13	Trypanosomatids: T. brucei	Kelly
Mon	Feb	11	3.15pm	14	Trymanosomatids: T. cruzi	Kelly
Wed	Feb	13	9.00am	15	Chemotherapy: anti-protzoal strategies	Croft
Fri	Feb	15	9.00am	16	Intro to Worms	Cantacessi
Mon	Feb	18	9.00am	17	Molecular approaches to studying worms	Rinaldi
Wed	Feb	20	9.00am	18	Trematode biology	Protasio
Wed	Feb	20	1.30-3.00pm		<b>Paper presentations</b>	<b>Artavanis-Tsakonas</b>
Fri	Feb	22	2.00pm	19	Cestodes	Olson
Mon	Feb	25	9.00am	20	Nematodes: Trichuris	Duque
Wed	Feb	27	9.00am	21	Trematodes and the host	Wilson
Fri	Mar	1	9.00am	22	Trematodes and the host	Wilson
Mon	Mar	4	9.00am	23	Computational approaches to drug resistance	Doyle

Wed	Mar	6	9.00am	24	Chemotherapy: anti-helminth strategies	Chami
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**EASTER TERM 2019**

Wed	May	8	9.30am-1.00pm		Part II Project and Dissertation seminars (Seminar room, TCR)	
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