

**UNIVERSITY OF CAMBRIDGE: DEPARTMENT OF PATHOLOGY
NATURAL SCIENCES TRIPOS - PART II PATHOLOGY 2018 – 2019**

DYNAMICS OF INFECTIOUS DISEASES OPTION

Organisers: Dr O. Restif (tel: (7)64963) and Dr. A. Conlan (tel: (7)64031

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MICHAELMAS TERM 2018

Lectures this term will be given in Lecture Theatre 2, Department of Veterinary Medicine, West Cambridge Site, unless otherwise stated.

Wed	Oct	3	3pm	Introduction to Part II Pathology Lecture Theatre at Tennis Court Road	Kelly
Tue	Oct	9	9.00am	Introduction to Disease Dynamics	Conlan
			10.00am	Concepts in infectious disease epidemiology	Trotter
Wed	Oct	10	9.00am	Interpreting data for Part II Pathology Pathology Lecture Theatre at Tennis Court Road	Trotter
Thu	Oct	11	9.00am	Understanding transmission using simple models	Conlan
			10.00am	Control of infectious diseases	Trotter
			11.00am	Foot and Mouth Disease 1 – Diagnosis and Control	King
Tue	Oct	16	9.00am – 11.00am	Practical 1 – Hands on with simple epidemic models Dr Lee Multimedia Teaching Laboratory	Conlan
Thu	Oct	18	9.00am	Free slot	
Tue	Oct	23	9.00am	R₀ – what data do we need to understand transmission?	Conlan
Thu	Oct	25	9.00am-11.00am	Practical 2 – Estimating R₀ Dr Lee Multimedia Teaching Laboratory	Conlan
Tue	Oct	30	9.00am	Foot and Mouth Disease 2 – Epidemic Dynamics	Wood
			10.00am	Genomic perspectives on the evolution and spread of Streptococcus pneumoniae	Bentley
Thu	Nov	1	9.00am-11.00am	Practical 3: Outbreak investigation	Trotter
Tue	Nov	6	9.00am	Introduction to Genomics	Weinart

			10.00m	Bovine TB - Epidemiology	Wood
Th	Nov	8	9.00am	Transmissible cancers	Murchison
Tue	Nov	13	9.00am	Salmonella I	Grant
			10.00am	Salmonella WITS	Grant
Thu	Nov	15	9.00am	Bovine TB – Modelling and policy	Conlan
			10.00am	Free slot	
Tu	Nov	20	9.00am	Campylobacter I	Grant
			10.00am	Campylobacter II	Grant
Thu	Nov	22	9.00am- 11.00am	Debate: Bovine TB and Badgers Main Meeting Room	Wood/Conlan
Tue	Nov	27	9.00am-	Streptococcus suis infections	Tucker
			10.00am	Streptococcus suis genomics	Weinart
Thu	Nov	29	9.00am- 11.00am	Q&A Session	Conlan

Bibliographic IT training will be available on multiple dates in the Pathology Library, 2nd Floor, Tennis Court Road, plus one session offered in the Medical Library, School of Clinical Medicine, Addenbrooke's. Students need only to attend one of the sessions. Please complete the form available at [to select the session you will attend](#)

LENT TERM 2019

Lectures this term will be given in Lecture theatre 2, Dept. Vet. Medicine, Madingley Road, unless otherwise stated.

Tu	Jan	15	9.00am	Viral phylodynamics	Frost
			10.00am	Concepts in emerging infections	Frost
Thu	Jan	17	9.00am – 11.00am	Practical 4: viral phylodynamics Dr Lee Multimedia Teaching Laboratory	Frost
Tu	Jan	22	9.00am	Influenza 1 – Epidemiology and evolution	Russell
			10.00am	Influenza 2 – Global dynamics of human infections	Russell
Thu	Jan	24	9.00am	Influenza 3 – Disease dynamics in animals	Russell
			10.00am	Influenza 4 – Cross species transmission	Russell
			11.00am	Wildlife reservoirs and emerging infections	Wood
Thu	Jan	31	9.00am – 11.00am	Paper Presentations	Restif and Conlan
Tu	Feb	5	9.00am- 11.00am	Paper Presentations	Conlan and Restif
Thu	Feb	7	9.00am	Predicting the spread of Orbiviruses	Gubbins
			10.00am	Schmallenberg	Gubbins
Tu	Feb	12	9.00am	The dynamics of antibiotic resistance in bacterial populations	Harrison
			10.00am	Antibiotic resistance – One Health Approaches	Mather
Thu	Feb	14	9.00am	Ecological concepts for infectious diseases	Restif
			10.00am	Evolutionary Ecology of infectious diseases I	Restif
Tu	Feb	19	9.00am- 11.00am	Free slot	
Thu	Feb	21	9.00am	Rabies – epidemiology and control	Fooks
Tu	Feb	26	9.00am	Introduction to Medical Anthropology	Jephcott
Wed	Feb	27	5.00pm	Perspectives on the eradication of poliovirus (shared lecture with virology*)	Minor
Th	Feb	28	9.00am	From theory to practice – modelling equine influenza	Wood
			10.00am	Evolution of zoonotic RNA viruses	Heeney
Tu	Mar	5	9.00am- 11.00am	Q&A Session – Exam prep	Restif

Th	Mar	7	9.00am	Free slot	
Tu	Mar	12	9.00- 11.00am	Practical 5 – Designing model structures	Trotter
Wed	Mar	13	3.00pm	Emerging viral infections (shared lecture with virology*)	Fouchier
* Pathology Lecture Theatre at Tennis Court Road					

EASTER TERM 2019

Lectures this term will be given in Lecture theatre 2, Dept. Vet. Medicine, Madingley Road, unless otherwise stated.

Th	Apr	25	9.00am	TSEs 1	Bujdoso
			10.00am	TSEs 2	Thackray
Tu	Apr	30	9.00am	TSEs 3	Thackray
Tu	May	7	9.00am- 11.00am	Student Project Presentations (IMPORTANT: All students should attend this session)	Conlan/ Restif
Th	May	9	9.00am- 11.00am	Examples Class for practical exam (SS)	Conlan/ Restif