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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Location: Lecture Theatre 2, Department of Veterinary Medicine, West Cambridge Site, unless otherwise stated.

Students should attend all timetabled events.

MICHAELMAS TERM 2018

***Bibliographic IT training*** *will be available on multiple dates in October 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.*

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| Wed | 3 | Oct | 3pm | **Introduction to Part II**  Pathology Lecture Theatre at Tennis Court Road | Kelly |
| Tue | 9 | Oct | 9am | **1. Introduction to Disease Dynamics** | Conlan |
|  |  |  | 10am | **2. Concepts in infectious disease epidemiology** | Trotter |
| Wed | 10 | Oct | 9am | **Interpreting data for Part II Pathology**  Pathology Lecture Theatre at Tennis Court Road | Trotter |
| Thu | 11 | Oct | 9am | **3. Understanding transmission using simple models** | Conlan |
|  |  |  | 10am | **4. Control of infectious diseases** | Trotter |
|  |  |  | 11am | **5. Foot and Mouth Disease 1 – Diagnosis and Control** | King |
| Tue | 16 | Oct | 9am-11am | **Practical 1. Hands on with simple epidemic models**  Dr Lee Multimedia Teaching Laboratory, Veterinary Medicine | Conlan |
| Thu | 18 | Oct | 9am | *Free slot* |  |
| Tue | 23 | Oct | 9am | **6. R0 – what data do we need to understand transmission?** | Conlan |
| Thu | 25 | Oct | 9am-11am | **Practical 2. Estimating R0**  Dr Lee Multimedia Teaching Laboratory, Veterinary Medicine | Conlan |
| Tue | 30 | Oct | 9am | **7. Foot and Mouth Disease 2 – Epidemic Dynamics** | Wood |
|  |  |  | 10am | **8. Genomic perspectives on the evolution and spread of Streptococcus pneumoniae** | Bentley |
| Thu | 1 | Nov | 9am-11am | **Practical 3. Outbreak investigation** | Trotter |
| Tue | 6 | Nov | 9am | **9. Introduction to Genomics** | Weinart |
|  |  |  | 10m | **10. Bovine TB - Epidemiology** | Wood |
| Thu | 8 | Nov | 9am | **11. Transmissible cancers** | Murchison |
| Tue | 13 | Nov | 9am | **12. Salmonella I** | Grant |
|  |  |  | 10am | **13. Salmonella WITS** | Grant |
| Thu | 15 | Nov | 9am | *Free slot* |  |
|  |  |  | 10am | **14. Bovine TB – Modelling and policy** | Conlan |
| Tue | 20 | Nov | 9am | **15. Campylobacter I** | Grant |
|  |  |  | 10am | **16. Campylobacter II** | Grant |
| Thu | 22 | Nov | 9am-11am | **Debate: Bovine TB and Badgers**  Main Meeting Room, Veterinary Medicine | Wood/Conlan |
| Tue | 27 | Nov | 9am | **17. Streptococcus suis infections** | Tucker |
|  |  |  | 10am | **18. Streptococcus suis genomics** | Weinart |
| Thu | 29 | Nov | 9am-11am | **Q&A Session** | Conlan |

LENT TERM 2019

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| Tue | 15 | Jan | 9am | **19. Viral phylodynamics** | Frost |
|  |  |  | 10am | **20. Concepts in emerging infections** | Frost |
| Thu | 17 | Jan | 9am-11am | **Practical 4. viral phylodynamics**  Dr Lee Multimedia Teaching Laboratory, Veterinary Medicine | Frost |
| Tue | 22 | Jan | 9am | **21. Influenza 1 – Epidemiology and evolution** | Russell |
|  |  |  | 10am | **22. Influenza 2 – Global dynamics of human infections** | Russell |
| Thu | 24 | Jan | 9am | **23. Influenza 3 – Disease dynamics in animals** | Russell |
|  |  |  | 10am | **24. Influenza 4 – Cross species transmission** | Russell |
| Tue | 29 | Jan | 9am | **25. Wildlife reservoirs and emerging infections** | Wood / Restif |
| Thu | 31 | Jan | 9am-11am | **Paper Presentations** | Restif/ Conlan |
| Tue | 5 | Feb | 9am-11am | **Paper Presentations** | Conlan/ Restif |
| Thu | 7 | Feb | 9am | **26. Predicting the spread of Orbiviruses** | Gubbins |
|  |  |  | 10am | **27. Schmallenberg** | Gubbins |
| Tue | 12 | Feb | 9am | **28. Antibiotic resistance – Population dynamics** | Harrison |
|  |  |  | 10am | **29. Antibiotic resistance – One Health Approaches** | Mather |
| Thu | 14 | Feb | 9am-11am | **30/31. Ecology of infectious diseases** | Restif |
| Tue | 19 | Feb | 9am-11am | **Q&A Session – Exam prep** | Restif |
| Thu | 21 | Feb | 9am | **32. Rabies – epidemiology and control** | Fooks |
| Tue | 26 | Feb | 9am | **33. Introduction to Medical Anthropology** | Jephcott |
| Wed | 27 | Feb | 5pm \* | **34. Perspectives on the eradication of poliovirus \***  Pathology Lecture Theatre at Tennis Court Road | Minor \* |
| Thu | 28 | Feb | 9am | **35. From theory to practice – modelling equine influenza** | Wood |
|  |  |  | 10am | **36. Evolution of zoonotic RNA viruses** | Heeney |
| Tue | 5 | Mar | 9am | *Free slot* |  |
|  |  |  | 10am | *Free slot* |  |
| Wed | 6 | Mar | 4pm \* | **37. Emerging viral infections \***  Pathology Lecture Theatre at Tennis Court Road | Fouchier \* |
| Thu | 7 | Mar | 9am | *Free slot* |  |
|  |  |  | 10am-12pm | **Practical 5. Designing model structures** | Trotter |

**\* Shared lectures with Virology, given in the Pathology Lecture Theatre, Tennis Court Road**

**EASTER TERM 2019**

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| Thu | 25 | Apr | 9am | **38. TSEs 1** | Bujdoso |
|  |  |  | 10am | **39. TSEs 2** | Thackray |
| Tue | 30 | Apr | 9am | **40. TSEs 3** | Thackray |
| Tue | 7 | May | 9am-11am | **Student Project Presentations**  **(IMPORTANT: All students should attend this session)** | Conlan/ Restif |
| Thu | 9 | May | 9am-11am | **Examples Class for practical exam (Single Subject)** | Conlan/ Restif |