UNIVERSITY OF CAMBRIDGE: DEPARTMENT OF PATHOLOGY

NATURAL SCIENCES TRIPOS

PART II PATHOLOGY: 2018-2019

VIROLOGY OPTION

Organiser: Dr C Crump (telephone: 763423, e-mail: vir-organiser@path.cam.ac.uk)

Lectures will be given in the Pathology Lecture Theatre at Tennis Court Road at 5.00 pm unless stated otherwise. Any lectures that will be held at times other than 5pm or on days other than Monday, Wednesday or Friday have the time and/or day marked in **bold**

**PLEASE NOTE:**

1) Bibliographic IT training will be held in the Greaves Room, Tennis Court Road. Students need only to attend one of the sessions.  Please use https://www.surveymonkey.co.uk/r/PathPartII-2017 to select a session. Dates are:

**Tues 10, Thurs 12, Fri 13, Mon 16, Tues 17, Fri 20, and Tues 24 October**.

2) There will be Data Handling Workshops for Single Subject students on **Friday 8th March** and **Wednesday 24th April**, highlighted with a grey background on the timetable. Further information will be emailed closer to the dates.

3) There will be Literature Presentation sessions on **Friday 19th October**, **Friday 2nd November, Friday 25th January** and **Friday 1st February**, highlighted with a grey background on the timetable. All students will present a recent research paper on topical aspects of virology and discuss the findings. All students should attend and read the papers prior to the presentations. Further information will be emailed closer to the dates.

4) All Single Subject students who undertake a Research Project will present their work on **Friday 26th April**. All Single Subject students are expected to attend. Further details will be emailed closer to the date.

5) We encourage all students to attend the **Virology Seminars** during the Michaelmas and Lent terms. There are usually 4-5 seminars per term on Thursdays at 12:00 noon in the **Sackler Lecture Theatre, Cambridge Institute for Medical Research, Cambridge Biomedical Campus**. Seminars are advertised on the notice boards in Pathology.

**MICHAELMAS TERM 2018**

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| --- | --- | --- | --- | --- | --- | --- |
| W | Oct | 3 | **3.00 pm** |  | Introduction to Part II Pathology (for all Part II Students) | A Kelly |
| F | Oct | 5 | 5.00 pm | 1 | Structure of virus particles – 1 | S Graham |
| M | Oct | 8 | 5.00 pm | 2 | Structure of virus particles – 2 | S Graham |
| M | Oct | 10 | **9.00 am** |  | Data interpretation (for all Part II Students) | C Trotter |
| W | Oct | 10 | **4.30 pm** | 3 | Virus cell entry mechanisms – 1 | Y Modis |
| F | Oct | 12 | **4.30 pm** | 4 | Virus cell entry mechanisms – 2 | Y Modis |
| M | Oct | 15 | 5.00 pm | 5 | Positive strand RNA virus replication – 1 | V Lulla |
| W | Oct | 17 | 5.00 pm | 6 | Positive strand RNA virus replication – 2 | V Lulla |
| F | Oct | 19 | 2.00-4.30pm |  | Literature presentations 1 (Lecture Theatre) | T Sweeney  D Brown |
| F | Oct | 19 | 5.00 pm | 7 | Negative strand RNA virus replication – 1 | A te Velthuis |
| M | Oct | 22 | 5.00 pm | 8 | Negative strand RNA virus replication – 2 | A te Velthuis |
| W | Oct | 24 | 5.00 pm | 9 | Retrovirus replication – 1 | I Brierley |
| F | Oct | 26 | 5.00 pm | 10 | Retrovirus replication – 2 | I Brierley |
| M | Oct | 29 | 5.00 pm | 11 | Retrovirus replication – 3 | I Brierley |
| W | Oct | 31 | 5.00 pm | 12 | Double strand RNA virus replication | I Goodfellow |
| F | Nov | 2 | 2.00-4.30pm |  | Literature presentations 2 (Lecture Theatre) | I Brierley  A te Velthuis |
| F | Nov | 2 | 5.00 pm | 13 | RNA virus gene expression | A Firth |
| M | Nov | 5 | 5.00 pm | 14 | Hepadnavirus replication | L Meredith |
| W | Nov | 7 | 5.00 pm | 15 | Replication strategies of DNA viruses – 1 | J Sinclair |
| F | Nov | 9 | 5.00 pm |  | *No lecture* |  |
| M | Nov | 12 | **4.00 pm** | 16 | Replication strategies of DNA viruses – 2 | J Sinclair |
| M | Nov | 12 | 5.00 pm | 17 | Replication strategies of DNA viruses – 3 | J Sinclair |
| W | Nov | 14 | 5.00 pm | 18 | Gene regulation in human cytomegalovirus infection | E Poole |
| F | Nov | 16 | 5.00 pm | 19 | Virus assembly and egress – 1 | C Crump |
| M | Nov | 19 | 5.00 pm | 20 | Virus assembly and egress – 2 | C Crump |
| W | Nov | 21 | 5.00 pm | 21 | Herpesvirus assembly and egress | C Crump |
| F | Nov | 23 | 5.00 pm | 22 | Virus cell-to-cell spread | C Crump |
| M | Nov | 26 | **4.00 pm** | 23 | Herpesvirus latency – 1 | S Efstathiou |
| M | Nov | 26 | 5.00 pm | 24 | Herpesvirus latency – 2 | S Efstathiou |
| W | Nov | 28 | 5.00 pm | 25 | Virus evolution, diversity and origin | A Firth |
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LENT TERM 2019

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| F | Jan | 18 | 5.00 pm | 26 | Virus interactions with host cell signal transduction | J Turner |
| M | Jan | 21 | 5.00 pm | 27 | Virus interactions with the cell cycle | J Turner |
| W | Jan | 23 | 5.00 pm | 28 | Viruses and neoplastic disease – 1 | J Doorbar |
| F | Jan | 25 | 2.00-4.30 pm |  | Literature Presentations 3 (Lecture Theatre) | C Crump  S Graham |
| F | Jan | 25 | 5.00 pm | 29 | Viruses and neoplastic disease – 2 | J Doorbar |
| M | Jan | 28 | 5.00 pm | 30 | Viruses and neoplastic disease – 3 | J Doorbar |
| W | Jan | 30 | 5.00 pm | 31 | Viral immunology – 1 | B Blacklaws |
| F | Feb | 1 | 2.00-4.30 pm |  | Literature Presentations 4 (Lecture Theatre) | J Doorbar  D Brown |
| F | Feb | 1 | 5.00 pm | 32 | Viral immunology – 2 | B Blacklaws |
| M | Feb | 4 | 5.00 pm | 33 | Viral immunology – 3 | B Blacklaws |
| **Tu** | Feb | 5 | 5.00 pm | 34 | Viral immune evasion – 1 | G Smith |
| **W** | Feb | 6 | **11.30 am** | 35 | Persistent infections: Hepatitis B and LCMV | P Borrow |
| **W** | Feb | 6 | **2.00 pm** | 36 | HIV persistence | P Borrow |
| W | Feb | 6 | 5.00 pm | 37 | Viral immune evasion – 2 | G Smith |
| **Th** | Feb | 7 | 5.00 pm | 38 | Viral immune evasion – 3 | G Smith |
| F | Feb | 8 | 5.00 pm |  | *No lecture* |  |
| M | Feb | 11 | 5.00 pm | 39 | Viral epidemiology | C Trotter |
| W | Feb | 13 | 5.00 pm | 40 | Vaccines: current strategies | H Browne |
| F | Feb | 15 | 5.00 pm | 41 | Vaccines: new approaches | H Browne |
| M | Feb | 18 | 5.00 pm | 42 | Antiviral chemotherapy | K Ranellou |
| W | Feb | 20 | 5.00 pm | 43 | Future antiviral development and discovery | R Elston |
| F | Feb | 22 | 5.00 pm | 44 | Viruses as therapy | R Beale |
| M | Feb | 25 | 5.00 pm | 45 | Smallpox eradication | G Smith |
| W | Feb | 27 | 5.00 pm | 46 | Perspectives on the eradication of poliovirus | P Minor |
| F | Mar | 1 | 5.00 pm | 47 | Ebolavirus outbreak control | I Goodfellow |
| M | Mar | 4 | 5.00 pm |  | *No lecture* |  |
| W | Mar | 6 | **4.00 pm** | 48 | Emerging viral infections | R Fouchier |
| W | Mar | 6 | 5.00 pm | 49 | Highly pathogenic avian influenza | R Fouchier |
| F | Mar | 8 | 2.00-4.00 pm |  | Data Handling 1 (Greaves and Dixon Rooms) | C Crump |
| F | Mar | 8 | 5.00 pm | 50 | The antigenic evolution of influenza viruses | D Smith |
| M | Mar | 11 | 5.00 pm | 51 | Antibody landscapes, and preemptive vaccination | D Smith |
| W | Mar | 13 | 5.00 pm |  | *No lecture* |  |

EASTER TERM 2019

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| W | Apr | 24 | 2.00-4.00 pm |  | Data Handling 2 (Greaves and Dixon Rooms) | I Brierley |
| F | Apr | 26 | 10.00-5.00 pm |  | Project Presentations  (Lecture Theatre) | C Crump |
| F | Apr | 26 | 5.00 pm | 52 | Clinical aspects of HIV | A Carmichael |
| M | Apr | 29 | 5.00 pm | 53 | Noroviruses | I Goodfellow |
| W | May | 1 | 5.00 pm | 54 | Influenzaviruses | W Barclay |