

**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](mailto: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 sessions will be held in the Department of Pathology, Tennis Court Road. Students need only to attend one session. Please use <https://training.cam.ac.uk/event/2652477> to select a session. Dates are:

**Tues 9, Fri 12, Mon 15, Tues 16, Fri 19, Mon 22 and Tues 23 October.**

2) There will be Data Handling Workshops for Single Subject students on **Friday 8<sup>th</sup> March** and **Wednesday 24<sup>th</sup> 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 19<sup>th</sup> October, Friday 2<sup>nd</sup> November, Friday 25<sup>th</sup> January** and **Friday 1<sup>st</sup> 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 26<sup>th</sup> 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

W	Oct	3	<b><u>3.00 pm</u></b>		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
W	Oct	10	<b><u>9.00 am</u></b>		Data interpretation (for all Part II Students)	C Trotter
W	Oct	10	<b><u>4.30 pm</u></b>	3	Virus cell entry mechanisms – 1	Y Modis
F	Oct	12	<b><u>4.30 pm</u></b>	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)	V Lulla 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		<i>No lecture</i>	
M	Nov	12	<b><u>4.00 pm</u></b>	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	<b>4.00 pm</b>	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

### LENT TERM 2019

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
<b>Tu</b>	Feb	5	5.00 pm	34	Viral immune evasion – 1	G Smith
<b>W</b>	Feb	6	<b>11.30 am</b>	35	Persistent infections: Hepatitis B and LCMV	P Borrow
<b>W</b>	Feb	6	<b>2.00 pm</b>	36	HIV persistence	P Borrow
W	Feb	6	5.00 pm	37	Viral immune evasion – 2	G Smith
<b>Th</b>	Feb	7	5.00 pm	38	Viral immune evasion – 3	G Smith
F	Feb	8	5.00 pm		<i>No lecture</i>	
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		<i>No lecture</i>	
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		<i>No lecture</i>	
W	Mar	6	5.00 pm	44	Viruses as therapy	R Beale
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	<b><u>3.00 pm</u></b>	48	Emerging viral infections	R Fouchier
W	Mar	13	4.00 pm	49	Highly pathogenic avian influenza	R Fouchier

### EASTER TERM 2019

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