

UNIVERSITY OF CAMBRIDGE : DEPARTMENT OF PATHOLOGY
NATURAL SCIENCES TRIPOS
PART II PATHOLOGY 2012 - 2013
VIROLOGY OPTION

Organiser: Dr David Brown (telephone: 36917, e-mail: vir-organiser@path.cam.ac.uk)

Lectures will be given in the Pathology Lecture Theatre at Tennis Court Road unless stated otherwise.

MICHAELMAS TERM 2012

W	Oct	3	3.00 pm		Introduction to Part II	G L Smith
Th	Oct	4	2 - 4 pm		Bibliographic IT training †	Kuhn
F	Oct	5	5.00 pm	1	Structure of virus capsids	Graham
M	Oct	8	5.00 pm	2	Virus entry - receptors	Brown
Tu	Oct	9	9.00 am	~	Cell Cycle Regulation I	Laman
Tu	Oct	9	2 - 4 pm		Bibliographic IT training †	Kuhn
W	Oct	10	5.00 pm	3	Virus entry - fusion and uncoating	Brown
Th	Oct	11	9.00 am	~	Cell Cycle Regulation II	Laman
Th	Oct	11	2 - 4 pm		Bibliographic IT training †	Kuhn
F	Oct	12	2 - 4 pm		Bibliographic IT training †	Kuhn
F	Oct	12	4.00 pm	4	Poliovirus replication	Brown
			5.00 pm	5	Positive strand RNA virus replication overview	Brown
Sa	Oct	13	9.00 am	~	Mechanics and Control of Cell Division I	D'Avino
M	Oct	15	2 - 4 pm		Bibliographic IT training †	Kuhn
M	Oct	15	5.00 pm	6	Mononegavirales replication overview	Brown
Tu	Oct	16	9.00 am	~	Mechanics and Control of Cell Division II	D'Avino
Tu	Oct	16	2 - 4 pm		Bibliographic IT training †	Kuhn
Th	Oct	18	9.00 am	~	Life and death of cells I	Kreuzaler
Th	Oct	18	2 - 4 pm		Bibliographic IT training †	Kuhn
F	Oct	19	3.00 pm		Nat. Sci. Students Career Advice Talk	Kelly/Todd
F	Oct	19	5.00 pm	8	Influenza, bunya and arenavirus replication	Digard
Sa	Oct	20	9.00 am	~	Life and death of cells II	Kreuzaler
M	Oct	22	5.00 pm	7	Rotavirus replication	Gray
W	Oct	24	2.00 pm	9	Retrovirus replication – 1	Brierley
			3.00 pm	10	Retrovirus replication – 2	Brierley
F	Oct	26	3.00 pm	11	Molecular Biology of HIV-1 replication	Brierley
			4.00 pm	12	Hepadnavirus replication	Brierley
F	Nov	2	2 - 4 pm		Data Handling 1 * (Greaves & Dixon Rooms)	Efstathiou
F	Nov	2	5.00 pm	13	RNA structures as control elements in viral systems	Brierley
M	Nov	5	5.00 pm	14	Replication strategies of DNA viruses - 1	Sinclair
W	Nov	7	4.00 pm	15	Replication strategies of DNA viruses – 2	Sinclair
W	Nov	7	5.00 pm	16	Replication strategies of DNA viruses – 3	Sinclair
F	Nov	9	1.30 – 4.30 pm		Paper presentations 1 §	Brierley/Brown
F	Nov	9	5.00 pm	17	Gene regulation in human cytomegalovirus infection	Sinclair
M	Nov	12	5.00 pm	18	Virus assembly – 1	Crump
W	Nov	14	5.00 pm	19	Virus assembly – 2	Crump
F	Nov	16	5.00 pm	20	Cell biology of herpesvirus assembly	Crump
W	Nov	21	1.30 -		Paper presentations 2 §	Brierley/Browne

			4.30pm			
F	Nov	23	5.00 pm	21	Herpesvirus latency	Efstathiou
M	Nov	26	5.00 pm	22	Herpesvirus latency	Efstathiou
W	Nov	28	5.00 pm	23	Antiviral chemotherapy	Digard

✦ Bibliographic IT training will be held at 2 sites: the Medical Library, Addenbrooke's site and the Kanthack & Nuttall Library, Department of Pathology. Students need only to attend one of the sessions. Please complete the form available at <https://www.surveymonkey.com/s/BiblioSession-Part2Path-2012> to select the session you will attend.

~ Please note that these are discretionary lectures which may provide additional background and save reading around the subject. This material will not be directly examined.

LENT TERM 2013

M	Jan	28	12 noon	24	Virus interactions with host cell signal transduction	Turner
M	Jan	28	1.00 pm	25	Virus interactions with the cell cycle	Turner
W	Jan	30	5.00 pm	26	Virus immunology - refresher	Blacklaws
Th	Jan	31	5.00 pm	27	Viral immunology - 1	Blacklaws
F	Feb	1	5.00 pm	28	Viral immunology - 2	Blacklaws
M	Feb	4	12 noon	29	Persistent infection. Hepatitis B and LCMV	Borrow
M	Feb	4	1.00 pm	30	HIV persistence	Borrow
M	Feb	4	5.00 pm	31	Viral immunology - 3	Blacklaws
Tu	Feb	5	5.00 pm	32	Viral immune evasion - 1	Boname
W	Feb	6	5.00 pm	33	Viral immune evasion - 2	Boname
Th	Feb	7	5.00 pm	34	Molecular aspects of immune evasion	Graham
F	Feb	8	5.00 pm	35	Viral immune evasion - 3	G L Smith
W	Feb	13	5.00 pm	36	Viruses and neoplastic disease - 1	Stevenson
Th	Feb	14	9 am	~	Oncogenic pathways I	Caffarel
F	Feb	15	5.00 pm	37	Viruses and neoplastic disease - 2	Stevenson
Sa	Feb	16	9 am	~	Oncogenic pathways II	Caffarel
M	Feb	18	5.00 pm	38	Papillomavirus and neoplastic disease	Sterling
Tu	Feb	19	9 am	~	Genetic instability I	D'Avino
W	Feb	20	5.00 pm	39	Viral Ecology	Stevenson
Th	Feb	21	9 am	~	Genetic instability II	D'Avino
			2 - 4 pm		Data Handling 2B * §	Brierley
F	Feb	22	2 - 5 pm		Paper Presentations 3 §	Crump/Graham
F	Feb	22	5.00 pm	40	Viruses and gene therapy	Stevenson
Sa	Feb	23	9 am	~	Cell senescence and telomeres	Narita
M	Feb	25	5.00 pm	41	Vaccines: current strategies	Browne
W	Feb	27	2.30 pm	42	Virus discovery	Osterhaus
W	Feb	27	3.45 pm	43	Emerging viral infections	Osterhaus
W	Feb	27	5.00 pm	44	Highly pathogenic avian influenza	Osterhaus
F	Mar	1	5.00 pm	45	Vaccines: New Approaches	Browne
W	Mar	6	5.00 pm	46	The antigenic evolution of influenza viruses	D Smith
Th	Mar	7	3.00 pm	47	The risk of A/H5N1 avian influenza virus adapting to a mammalian host.	D Smith
F	Mar	8	5.00 pm	48	Virus Eradication	G L Smith
M	Mar	11	5.00 pm	49	Epidemiology Background	Conlan

EASTER TERM 2013

F	Apr	26	10 - 5 pm		Project seminars §	Brown
			5.00 pm	50	Discovering novel virus genes	Firth
M	Apr	29	4.00 pm	51	Measles Epidemiology	Conlan
M	Apr	29	5.00 pm	52	Human herpesviruses	Stevenson
W	May	1	5.00 pm	53	Influenzaviruses	Digard
F	May	3	5.00 pm	54	Human Immunodeficiency Virus	Moore
* Greaves/Dixon Room, § - Seminar Room.						