

**UNIVERSITY OF CAMBRIDGE : DEPARTMENT OF PATHOLOGY  
NATURAL SCIENCES TRIPOS  
PART II PATHOLOGY 2017-2018**

**CANCER & GENETIC DISEASES**

**Organisers:** Dr Pier Paolo D'Avino (email: [cgd-organiser@path.cam.ac.uk](mailto:cgd-organiser@path.cam.ac.uk), telephone: 33712) or

Dr Carole Sargent (email: [cgd-organiser@path.cam.ac.uk](mailto:cgd-organiser@path.cam.ac.uk), telephone: 65667)

Lectures will be given in the **Pathology Lecture Theatre** unless marked with \* in which case they will take place in the **Seminar Room\*** at Tennis Court Road and take place Tuesday, Thursday and Saturday at 9.00 am unless stated otherwise.

**MICHAELMAS TERM 2017**

<b>Cell and Tissue Biology</b>						
Wed	Oct	4		3:00 PM	Part II Introduction Talk	Kelly
Thu	Oct	5	1	9:00 AM	Cell morphology	D'Avino
Fri	Oct	6	2	2.00 PM	Tissue morphology	D'Avino
Sat	Oct	7	3	9:00 AM	Cell cycle regulation I	Laman
Mon	Oct	9		9:00 AM	Data interpretation session for all options	Trotter
Tue	Oct	10	4	9:00 AM	Cell cycle regulation II	Laman
Sat	Oct	14	5	9:00 AM	Mechanics and control of cell division I	D'Avino
Mon	Oct	16	6	3:00 PM	Mechanics and control of cell division II	D'Avino
Tue	Oct	17	7	9:00 AM	Stem cells I	Rawlins
Thu	Oct	19	8	9:00 AM	Stem cells II	Rawlins
Sat	Oct	21	9	9:00 AM	Life and death of cells I	Watson
Mon	Oct	23	10	4:00 PM	Life and death of cells II	Watson
<b>Genomic Approaches to Disease</b>						
<i>Organisation and Mapping of the Genome</i>						
Thu	Oct	26	11	9:00 AM	What makes a genome?	Skinner
Sat	Oct	28	12	9:00 AM	How do genomes evolve?	Skinner
Tue	Oct	31	13	9:00 AM	How do genomes differ?	Sargent
Thu	Nov	2	14	9:00 AM	What chromosome studies tell us about disease	Griffin
Thu	Nov	2	15	10 AM	Why chromosome position matters in disease	Griffin
Sat	Nov	4	16	9:00 AM	Mapping disease genes for simple disorders	Sargent
Tue	Nov	7	17	9:00 AM	Complex disorders: populations and pedigrees (I)	Sargent
Tue	Nov	7	18	10.00am	Complex disorders: populations and pedigrees (II)	Sargent
Wed	Nov	8	19	2.00 PM	Sex and the single Y: the rock'n'roll chromosome?	Ellis
Wed	Nov	8	20	3.30pm	Sex chromosome specialisation and disease	Ellis
<i>Rare Diseases</i>						
Thu	Nov	9	21	9:00 AM	Next generation sequencing approaches to rare diseases	Skinner
<i>Chromatin Regulation and Epigenetics</i>						
Tue	Nov	14	23	9:00 AM	Chromatin structure and expression	Bannister
Thu	Nov	16	24	9:00 AM	Long-range regulation of gene transcription	Bannister
Sat	Nov	18	25	9:00 AM	Non-Mendelian inheritance	Quilter
Tue	Nov	21	26	9:00 AM	Epigenetic Disease	Quilter

Wed	Nov	22	27	2.00 PM	The developmental origins of disease	Ozanne
Mon	Nov	27	28	2.00 PM	DNA methylation and gene activity	Constancia
Mon	Nov	27	28	3.00 PM	Genomic imprinting: lessons from mouse models	Constancia
<b>Neurodegenerative Disease</b>						
Tue	Nov	28	29	9:00 AM	The genetics of Parkinson's disease	Laman
Thu	Nov	30	30	9:00 AM	Introduction to autophagy*	Rubinsztein
Thu	Nov	30	31	10 AM	Autophagy and neurodegeneration*	Rubinsztein

## LENT TERM 2018

<b>Molecular and Cell Biology of Cancer</b>						
<i>Oncogenes and Tumour Suppressors</i>						
Tue	Jan	16	32	9:00 AM	Tumour suppressors	Laman
Thu	Jan	18	33	2.00 PM	Oncogenic pathways I	Watson
Sat	Jan	20	34	9:00 AM	Oncogenic pathways II	Watson
Mon	Jan	22		2.00 PM	Tutorial session on MT topics*	
Tue	Jan	23	35	9:00 AM	Cell senescence and telomeres	Narita
<i>The Cancer Genome</i>						
Thu	Jan	25	36	9:00 AM	Investigating the cancer genome	Edwards
Sat	Jan	27	37	9:00 AM	What mutations drive carcinomas?	Edwards
Tue	Jan	30	38	9:00 AM	Transcription factors and transcription networks in cancer	Carroll
Tue	Jan	30	39	10 AM	Nuclear receptors in cancer	Carroll
Thu	Feb	1	40	9:00 AM	Epigenetics in cancer I	Vire
Sat	Feb	3	41	9:00 AM	Epigenetics in cancer II	Vire
Tue	Feb	6	42	9:00 AM	Micro RNAs in cancer	Murray
Thu	Feb	8	43	9:00 AM	Genomic instability I	D'Avino
Sat	Feb	10	44	9:00 AM	Genomic instability II	D'Avino
Tue	Feb	13	45	9:00 AM	Genomic instability III	D'Avino
<i>Cancer Examples and Models</i>						
Thu	Feb	15	46	9:00 AM	Models of Cancer I	Turner
Sat	Feb	17	47	9:00 AM	Models of Cancer II	Turner
Tue	Feb	20	48	9:00 AM	Hereditary Cancer I	Maher
Thu	Feb	22	49	9:00 AM	Hereditary Cancer II	Maher
Sat	Feb	24	50	9:00 AM	Stem cells and cancer	Huntly
Tue	Feb	27	51	9:00 AM	The tumour microenvironment	Shields
Mon	Mar	5	52	2:00 PM	Inter and Intra-tumour heterogeneity	Bruna
Tue	Mar	6	53	9:00 AM	Paediatric Cancer I	Coleman
			54	10 AM	Paediatric Cancer II	Coleman
Thu	Mar	8	55	9:00 AM	Oesophageal adenocarcinoma	Contino
Sat	Mar	10	56	9:00 AM	Haematopoietic cancers: Lymphoma	Du
Tue	Mar	13	57	9:00 AM	Invasion and Metastasis	Bruna

## EASTER TERM 2018

Thu	Apr	26	10.00 AM		Project Presentations (Single Subject)	D'Avino Sargent
Tue	May	8	9.00 AM		Data Handling Session	Sargent

Bibliographic IT training will be available on multiple dates at the start of Michaelmas Term. Students need only to attend one of the sessions. Please complete the form available here to select the session you will attend <https://www.surveymonkey.co.uk/r/PathPartII-2017>

Updates to the information on this timetable will appear on the Departmental Web Server: [www.path.cam.ac.uk](http://www.path.cam.ac.uk), click on Undergraduate Teaching, then Third Year (part II teaching), then Part II Timetables (or go directly to [http://www.path.cam.ac.uk/undergraduate/third\\_year/timetables](http://www.path.cam.ac.uk/undergraduate/third_year/timetables)). It is also available online to print or export to your personal timetable [www.timetable.cam.ac.uk](http://www.timetable.cam.ac.uk).

**Paper Presentation Sessions for all students and Data Handling Seminars for single subject students only will be held in LT. (Dates TBC)**