

UNIVERSITY OF CAMBRIDGE
DEPARTMENT OF BIOCHEMISTRY

Natural Sciences Tripos Part IB: **BIOCHEMISTRY AND MOLECULAR BIOLOGY 2009-2010**

Course Organiser: Dr T. R. Hesketh (E-mail t.r.hesketh@bioc.cam.ac.uk)

All lectures are at 10.00 am in the lecture theatre of the Sanger Building, Department of Biochemistry, Old Addenbrooke's site. Entrance from Tennis Court Road.

Note that some lectures begin earlier in Term, and end later in Term, than is usual. This is to allow more time between the end of the course and the examinations.

IMPORTANT NOTES: Dr Hesketh, the Course Organiser, will introduce the course as part of the first Lecture at 10.00 am on Friday October 9. The last Lecture of the Term is on Friday December 4.

MICHAELMAS TERM Genes and proteins; macromolecules in action.

Oct. 9, 12, 14, 16, 19	Prof. C. J. Howe	(5)	Gene cloning and manipulation.
Oct. 21, 23, 26, 28, 30	Prof. Dame Jean Thomas	(5)	Control of gene expression: DNA structure and DNA-protein interactions
Nov. 2, 4, 6, 9, 11	Prof. C. W. J. Smith	(5)	Control of gene expression; transcription, RNA processing and translation
Nov. 13, 16, 18, 20, 23	Prof. Sir Tom Blundell	(5)	Protein structure, flexibility and function
Nov. 25, 27, 30, Dec. 2, 4	Prof. P. F. Leadlay	(5)	Enzyme catalysis and protein engineering

LENT TERM Energy transduction, cell signalling and cell proliferation.

(NOTE: First Lecture on Wednesday January 13; Last Lecture on Friday March 12)

Jan. 13, 15, 18, 20, 22, 25	Dr G. C. Brown	(6)	Energy transduction in bacteria, mitochondria and chloroplasts
Jan. 27, 29, Feb. 1, 3, 5, 8	Prof. K. M. Brindle	(6)	Control of metabolism
Feb. 10, 12, 15, 17, 19, 22	Prof. R. W. Farndale	(6)	Transmembrane signalling; molecules and mechanisms
Feb. 24, 26, Mar. 1, 3	Dr D. M. Carrington	(4)	Control of eukaryotic cell growth
Mar. 5, 8, 10, 12	Dr T. R. Hesketh	(4)	Oncogenes, tumour suppressor genes, and cancer

EASTER TERM Biochemistry of Microorganisms

(NOTE: First Lecture on Wednesday April 21; Last Lecture on Monday May 10)

Apr. 21, 23, 26	Dr M. Welch	(3)	Bacterial chemotaxis
Apr. 28, 30	Prof. G. P. C. Salmond	(2)	Bacterial signalling and secretion systems
May 3, 5, 7, 10	Dr D. M. Carrington	(4)	Molecular biology of protozoa