

**UNIVERSITY OF CAMBRIDGE
DEPARTMENT OF BIOCHEMISTRY**

Natural Sciences Tripos Part IB. Biochemistry & Molecular Biology Practicals 2009-10

MICHAELMAS TERM 2009		
Dates	Practical	Senior Demonstrator
Week 1 Oct. 8 - 14	Safety. (1) Cloning of Oct1 POU domain gene into <i>E. coli</i> plasmid. Restriction mapping of plasmid.	Dr Scadden
Week 2 Oct. 15 - 21	(2) Expression of POU domain in <i>E. coli</i> . Melting properties of DNA.	Dr Carrington
Week 3 Oct. 22 - 28	(3) Purification of POU domain	Prof. Gay
Week 4 Oct. 29 – Nov. 4	(4) Electrophoresis mobility shift assay	Dr Standart
Week 5 Nov. 5- 11	(5) Bioinformatics: DNA sequence analysis by computer. Venue: Dept of Genetics	Mr Judge
Week 6 Nov. 12 - 18	(6) Discussion of (1, 2, 3, 4) 11.00 a.m. Venue: Classroom	Dr Carrington and colleagues
	(7) Journal Club (2 p.m.) Venue: Sign-up sheets will be available	Staff
Week 7 Nov. 19 - 25	(8) Protein structure by molecular graphics Venue: Dept of Genetics	Dr Broadhurst
Week 8 Nov. 26 – Dec. 2	(9) Enzyme mechanism workshop Venue: Sign-up sheets will be available.	Dr Griffin and colleagues
LENT TERM 2010		
Week 1 Jan. 14 - 20	(10) Subcellular fractionation	Prof. Oliver
Week 2 Jan. 21 – 27	(11) Kinetic analysis of catalysis by chymotrypsin	Dr Nietlispach
Week 3 Jan. 28 - Feb 3	(12) Mitochondrial oxidative phosphorylation	Dr Brown
Week 4 Feb. 4 - 10	(13) Metabolic Control <i>in silico</i> 11-1 or 2-4. Venue: Dept of Genetics	Dr Murzina
Week 5 Feb. 11 - 17	(14) Cell signalling (1): Tyrosine phosphorylation in platelets	Dr Lummis
Week 6 Feb. 18 – 24	(14) Cell signalling (1): Tyrosine phosphorylation continued and discussion	Dr Lummis
Week 7 Feb. 25 - Mar 3	(15) Cell signalling (2): Thromboxane production by platelets	Dr Jarvis
Week 8 Mar. 4 - 10	(15) Cell signalling (2): Thromboxane production by platelets: data analysis & discussion (11 a.m).	Dr Jarvis
	Journal Club (2 p.m.) Venue: Sign-up sheets will be available	Staff
EASTER TERM 2010		
Week 1 Apr. 22 – 28	(16) Microbial Biochemistry	Prof. Salmond
Week 2 Apr. 29 – May 5	(16) Microbial Biochemistry	Prof. Salmond