

NST PART 1B BIOCHEMISTRY & MOLECULAR BIOLOGY PRACTICAL TIMETABLE 2011-12

Practicals are held in the Biochemistry Teaching Laboratory, Hopkins Building, Tennis Court Road, commencing at 11.00 am, unless stated otherwise. Enter by door opposite the Genetics Dept.

| MICHAELMAS TERM 2011 | | |
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| Dates | Practical | Senior Demonstrator |
| Week 1 October 6 - 12 | Safety. (1) Cloning of Oct1 POU domain gene into <i>E. coli</i> plasmid. Restriction mapping of plasmid. | Dr L. Pellegrini & Dr J. Mata Oct. 6, 7, 10, 12. Oct. 11 |
| Week 2 October 13 - 19 | (2) Expression of POU domain in <i>E. coli</i> . Melting properties of DNA. | Dr D. M. Carrington |
| Week 3 October 20 - 26 | (3) Purification of POU domain | Prof. N. Gay |
| Week 4 October 27 – Nov. 2 | (4) Electrophoresis mobility shift assay | Dr N. M. Standart |
| Week 5 November 3-9 | (5) Bioinformatics: DNA sequence analysis by computer. Venue: Dept of Genetics | Mr. D. Judge |
| Week 6 November 10 -16 | (6) Discussion in lab of (1, 2, 3, 4) 11.00 a.m. (7) Journal Club (2 p.m.) Venue: see sign-up sheets | Dr D. M. Carrington Staff |
| Week 7 November 17 - 23 | (8) Protein structure by molecular graphics Venue: Dept of Genetics | Dr R. W. Broadhurst |
| Week 8 November 24 - 30 | (9) Reactivity and enzyme catalysis. Venue: Teaching rooms 1 and 2. 11-1 or 2-4 | Dr N. Murzina |
| LENT TERM 2012 | | |
| Week 1 January 19- 25 | (10) Subcellular fractionation | Dr N. Zhang |
| Week 2 January 26- February 1 | (11) Kinetic analysis of catalysis by chymotrypsin | Dr K. S. Lilley |
| Week 3 February 2- 8 | (12) Mitochondrial oxidative phosphorylation | Dr G. C. Brown |
| Week 4 February 9 -15 | (13) Metabolic Control <i>in silico</i> 11-1 or 2-4. Venue: Dept of Genetics | Prof. S. G. Oliver |
| Week 5 February 16 - 22 | (14) Cell signalling (1): Tyrosine phosphorylation in platelets | Dr S. Lummis/Dr N. Pugh |
| Week 6 February 25 - 29 | (14) Cell signalling (1): Tyrosine phosphorylation continued and discussion | Dr S. Lummis/Dr N. Pugh |
| Week 7 March 1 - 7 | (15) Cell signalling (2): Thromboxane production by platelets | Dr M. Hyvonen |
| Week 8 March 8 - 14 | (15) Cell signalling (2): Thromboxane production by platelets: data analysis & discussion (11 a.m). (16) Journal Club (2 p.m.) Venue: see sign-up sheets | Dr M. Hyvonen Staff |
| EASTER TERM 2012 | | |
| Week 1 April 26 - May 2 | (17) Microbial Biochemistry | Prof. G. P.C. Salmond |
| Week 2 May 3 - May 9 | (17) Microbial Biochemistry | Prof. G. P.C. Salmond |