Postgraduate Course in Biochemistry
Michaelmas Term 2014

LECTURES
Monday, Tuesday, Thursday at 5.00 – 6.00 pm
Venue: Sanger Seminar Room

Lectures	**Lecturer**	**Date**
Protein expression and purification (3)		
E.coli expression plus fusion proteins	Sandra Berndt	14 October 2014
Eukaryotic expression systems	Ben Murton	16 October 2014
Chromatography techniques	Darerca Owen	23 October 2014
Analytical techniques in protein and peptide characterization (1)		
Basics of MS and proteomics	Mike Deery	21 October 2014
Structure determination by NMR and X-ray crystallography (2)		
Investigating proteins using NMR	Katherine Stott	20 October 2014
Protein crystallography for biochemists	Dima Chirgadze	27 October 2014
Protein-protein interactions in solution (4)		
Yeast 2-hybrid systems	Nianshu Zhang	28 October 2014
K_d and kinetics data from SPR, bio-layer interferometry and ITC	Stephen McLaughlin	30 October 2014
CD, Fluorescence, small angle X-ray scattering	Ben Luisi	3 November 2014
AUC, DLS	Martin Moncrieffe	4 November 2014
Molecular modelling and computational biochemistry (1)		
Solving biochemical problems with computers	Tim Stevens	20 November 2014
Proteomics and functional genomics (4)		
Transcriptome analysis: microarrays	Steve Russell	10 November 2014
Quantitative proteomics	Jo Rees	11 November 2014
Analysing post translational modifications using MS	Jo Rees	13 November 2014
Metabolomics	Jules Griffin	17 November 2014
Microscopy and imaging (4)		
Electron microscopy and image processing	Jonathan Ruprecht	18 November 2014
Flow cytometry	Maike Heffner	6 November 2014
Light microscopy (basics)	Stefanie Reichelt	24 November 2014
Light microscopy (confocal)	Stefanie Reichelt	25 November 2014
Biotechnology applications (2)		
Antibodies – what they can do for you	Darren Schofield	1 December 2014
Case studies – a drug discovery perspective	Rob Howes	2 December 2014

PRACTICALS

Unless stated, the time of the practical and the venue will be announced by the Practical Organiser shortly after the start of term

Practical	**Practical Organser**	**Date and Time**
Chromatography	Sandra Berndt	24 October 2014 27 October 2014
Crystallization	Dima Chirgadze	28 October 2014 5 November 2014
X-ray crystallography	Dima Chirgadze	31 October 2014 7 November 2014
NMR Spectroscopy	Katherine Stott/ Daniel Nietlispach	3 November 2014 4 November 2014
Analysing and visualising of macromolecular structures	Bill Broadhurst	23 October 2014 25 November 2014 *Time: 9.00 am – 1.00 pm* *Venue: Bioinformatics Training Room, Craik-Marshall Building*
Proteomics	Mike Deery	18 November 2014 19 November 2014
Metabolomics	Jules Griffin	20 November 2014
Biacore	Stephen McLaughlin	31 October 2014 14 November 2014
ITC	Katherine Stott	10 November 2014 13 November 2014
From NMR data to structure using CCPN software.	Helen Mott	6 November 2014 7 November 2014 *Time: 9.00 am – 1.00 pm* *Venue: Bioinformatics Training Room, Craik-Marshall Building*
Basic sequence analysis using Linux	Jenny Barna	11 November 2014 12 November 2014 *Time: 9.00 am – 1.00 pm* *Venue: Bioinformatics Training Room, Craik-Marshall Building*
Quantitating gene expression by quantitative real time PCR	Miriam Llorian	24 November 2014 27 November 2014
Homogenous time resolved fluorescence (HTRF)	MedImmune	26 November 2014 *Venue: MedImmune TBA*

WORKSHOP

Workshop	**Workshop Organiser**	**Date and time** *Time: 9.00 am – 1.00 pm*
Science communication with the public	Tom Blundell	28 November 2014 *(Venue: Sanger Building Seminar Room)*