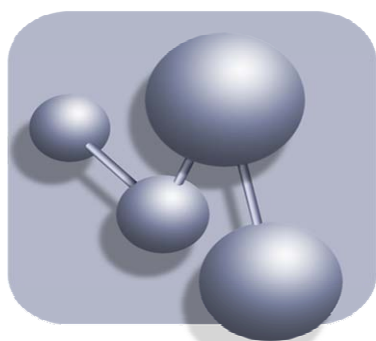


Joint DTC Conference

at Warwick

16 – 17 April 2007



**Chemical
Biology
Centre**



Physical Methods and Life Sciences
The White Rose Doctoral Training Centre (DTC)
Universities of Leeds and Sheffield

Joint DTC Conference

at Warwick

White Rose (Leeds/Sheffield), CBC (Imperial) and MOAC (Warwick)

Monday 16th, April 2007

Time	What's happening
11:00 – 12:00	Arrival and Orientation
12:00 – 13:00	LUNCH

	MOAC Seminar Room	System Bio Room 325	Systems Bio Room 336
13:00 – 13:30	Christina Turner: <i>SNARE-Mediated Membrane Fusion</i>	Martyn Rittman: <i>Applications of linear dichroism to DNA</i>	Sam Robson: <i>Life or Cell Death: Deciphering c-Myc Regulated Gene Networks in Two Distinct Tissues</i>
13:30 – 14:00	Samuel Cooper: <i>Ligand-receptor engineering: inositol phosphate analogues and mutant protein kinase B-Pleckstrin Homology domain</i>	Ratchada Pattaranit: <i>Central Neural Control of Energy Balance and Weight Control</i>	Prakash Patel: <i>Investigating receptor-siderophore reactions</i>
14:00 – 14:30	Emma Clay: <i>Using UV to shed light on membrane stress</i>	Lahari de Alwis: <i>Impact of fluid flow on molecules in a linear dichroism cell</i>	Alexandra Trevenen: <i>The phase behaviour of DPPC: 5-Androsten-3β-ol</i>
14:30 – 15:00	TEA BREAK		
15:00 – 15:30	Brett Donovan: <i>Coarse-grained implicit solvent models of biological membranes and their application to understanding phase separation and interaction of surfactants</i>	Adair Richards: <i>Development of DNA-binding pharmaceutical metallomolecules</i>	Richard Wilson: <i>Modelling the mechanism of microtubule active transport</i>
15:30 – 16:00	Josh Berryman: <i>Conformational Diversity in the Amyloid Cross-Beta Motif</i>	Angeliki Damianoglou: <i>Characterising structures of membrane proteins</i>	

16:00 – 17:15	Poster Session
17:15 – 18:00	CHECK IN
18:00 – 19:30	DINNER
20:00 – 20:30	University Challenge Final in the Union Bar (Cholo) Varsity

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Tuesday 17th, April 2007

Time	What's happening
07:30 – 09:30	Breakfast at Rootes Restaurant and CHECK OUT
09:30 – 10:00	Meet at MOAC for coffee

	MOAC Seminar Room	System Bio Room 325	Systems Bio Room 336
10:00 – 10:30	Gemma Warren: <i>The Twin Arginine Translocase Pathway: TatA Oligomerisation</i>	Antony Holmes: <i>Model integration: spatial context and signalling pathways in Myxobacterial motility</i>	Sally Hopkins: <i>Development of nanoparticles for cell protection</i>
10:30 – 11:00	David Evans: <i>Electrical protein detection in cell lysates using high-density peptide-aptamer microarrays</i>	Yi Chan: <i>Bacteriophages infecting Acaryochloris marina</i>	Trung Huynh: <i>Investigation of the Role of Phosphoinositide Metabolism during Nuclear Envelope Assembly Using Synthetic Fluorescent Phosphatidylinositol Probes</i>
11:00 – 11:30	TEA BREAK		
11:30 – 12:00	Michael Li: <i>Chloroplast Protein Targeting: Twin-arginine translocation</i>	Hilary Lewis: <i>Strategies for the Identification and Structural Analysis of Multi-Component Protein Complexes</i>	
12:00 – 12:30	Hazel Fenton: <i>Luminescent Sensors for the Intracellular Imaging of Vanadium Ions</i>	Ulrich Janus: <i>Dynamics of a synthetic oscillatory network in E.coli</i>	Elizabeth Turner: <i>NMR-based metabonomics – searching for novel biomarkers of preeclampsia and the disease's effect on the integrity of the erythrocyte membrane</i>
12:30 – 13:00	Abdnacer Boucekhima: <i>Exploring the endoplasmic reticulum</i>	Nicholas Reynolds: <i>Nanoscale Patterning Of Photosynthetic Light Harvesting Proteins</i>	

13:00 – 14:00	LUNCH
14:00 – 16:00	Poster Session, Networking, etc.
16:00	Departure

Posters

Alistair Irvine

The role of disulphide bonds in protein folding pathways

Andrew Dennison

Amyloid formation and model membranes

Christopher Millington

Novel Post DNA Synthesis Chemistry and Biological Evaluation of O^6 - Alkylguanine containing Oligonucleotides

Daniel Bearup

Modelling the peptidoglycan biosynthesis pathway: an approach to antibiotic development

Daniel Nicolau

Incorporation of orthogonally protected lanthionine in the synthesis of nisin rings A and B analogue

Elina Vladimirov

Why doesn't auxilin need to fold?

Gillian Busch

Site Selective Labelling of Proteins Using Native Chemical Ligation

Hayley Morley

Extension of EWCRDS to study dynamical interfaces

Jessica Knott

The effects of membrane stored curvature elastic stress and charge upon CCT:CTP phosphocholine cytidyltransferase

Joanna Swarbrick

Title unknown

Jonathon Armond

Mechanisms of microtubule force generation: the DASH ring complex

Jonathan Westwood

Structural and dynamic analysis of MS2 TR RNA variants

Nikolaos Daskalakis

Charge Transport across biomembrane Vesicles Adsorbed on Electrode Surfaces

Paul Garner

Applications of coarse grained molecular dynamics in investigating assembly of the TatABC complex

Richard Bingham

Electric field induced instability in bilayer lipid membranes; a continuum model

Samuel Furse

Understanding PI Lipids

Thomas Wilson

Development of high affinity quadruplex DNA binding ruthenium complexes

Toby Kurk

Visualising the surface of filamentous cyanobacteria