



## DTC in Cell and Proteomic Technologies Symposium 2012

Date: Friday 7<sup>th</sup> December

Location: Senate Room, Main Building

The Doctoral Training Centre in Cell and Proteomic Technologies offers PhD studentships to train multidisciplinary young researchers. Our aim: to develop cutting edge techniques to study molecules and cells and apply these to existing life science questions. Projects encompass disciplines ranging from bioelectronics to tissue engineering, from mass spectrometry to nanofabrication. Find out about the DTC and meet the researchers in this one day symposium with talks from current students and staff, a lunch and poster session and a drinks reception, with a prize for best poster.

### PROGRAMME

9:00 – 9:30am Registration and Coffee

#### SESSION 1

9.30 – 10:00

##### **Polyomics**

Professor Mike Barrett  
Director of Glasgow Polyomics

10:00 – 10:15

##### **Interrogating Non-Covalent Complexes with Mass Spectrometry**

Chris Nortcliffe, PhD  
Perdita Barran Research Group, University of Edinburgh

10:15 – 10:30

##### **Novel Lipidomic Approaches to Investigating Glycolipids in Autoimmune Diseases**

Jo Cappell, PhD  
Institute of Infection, Immunity and Inflammation, University of Glasgow

10:30 – 11:00

Coffee Break

#### SESSION 2

11:00 – 11:30

##### **Medical Diagnostics through Micromanipulation; Measuring the Relative Stiffness of Erythrocytes with Optoelectronic Tweezers**

Dr Steven Neale  
RAEng/EPSC Research Fellow, Biomedical Engineering, University of Glasgow

11:30 – 11:45

##### **Application of High-Resolution FTICR Mass Spectrometry to Understanding Protein Chemistry**

Sophie Thurlow, PhD  
SIRCAMS, University of Edinburgh

- 11:45 – 12:00 **Cell Phenotype Profiling for High Throughput Cell-surface analysis**  
Paul Reynolds, PhD  
Centre for Cell Engineering, University of Glasgow
- 12:00 – 12:15 **Controlling Mesenchymal Stem Cell Behaviour using Peptide Based Biomaterials**  
Angela MacIntyre, PhD  
Centre for Cell Engineering, University of Glasgow
- 12:15 – 12:30 **Developing a Tool for Novel Protease Identification**  
Cameron Fyfe, PhD  
Institute of Infection, Immunity and Inflammation, University of Glasgow
- 12:30 – 2:00 Lunch and poster session
- SESSION 3**
- 2:00 – 2.15 **Applications of High-Throughput DNA and RNA Sequencing**  
Dr Graham Hamilton  
Glasgow Polyomics
- 2.15 – 2.30 **Metabolomic and Proteomic Profiling of Beer**  
Dr Stefan Weidt  
Glasgow Polyomics
- 2:30 – 2:45 **Use of Atomic Force Microscopy to Study Cell Interactions, and Applications in Microfluidics**  
Ellie Pulleine, PhD  
Biomedical Engineering, University of Glasgow
- 2:45 – 3:00 **Mesenchymal Stem Cell Differentiation in Hydrogels**  
Enateri Alakpa, PhD  
Centre for Cell Engineering, University of Glasgow
- 3:00 – 3:30 Coffee break
- 3:30 – 4:30 **Keynote Speaker**  
Dr Kirsty Luescher, OnCall Africa
- 4:30 - 6.30 Drinks Reception and Poster Prize

