



# 5<sup>th</sup> *flowcytometry***UK** Meeting

20-22 July 2016

Leeds MET Hotel

Organisers:  
Derek Davies & Rachael Walker



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## WEDNESDAY 20th JULY

12:00-13:00 LUNCH AND REGISTRATION

13:00-15:00 Room: MET 1

Session 1. Chair: **Derek Davies** (The Francis Crick Institute)

13:00-13:15 WELCOME AND INTRODUCTION

**Derek Davies** (The Francis Crick Institute)

13:15-14:00 **Keynote Speaker:**

**J Paul Robinson** (Purdue University Cytometry Laboratories)

*Moving the Frontiers of Cytometry*

14:00-14:30 **Graham Pockley** (Nottingham Trent University)

*Identification of Prostate Cancer using a Novel Flow Cytometry Phenotypic Fingerprint: A Computational Intelligence Approach*

14:30-15:00 **Keerthiraju Ethiraju Ravichandran** (University of Nottingham)

*Role of mitochondrial cytochrome C oxidase chaperone gene (COX2) in tolerance to hydrogen peroxide and metals induced oxidative stress in Saccharomyces cerevisiae - ROS detection and analysis using Flow Cytometry*

15:00-15:30 TEA AND EXHIBITION

15:30-16:30 Commercial Workshops 1

Room: MET 2

**BD BIOSCIENCES**, *An Introduction to the BD FACSCelesta*

Room: MET 15

**BECKMAN COULTER**, *Flow Cytometric Detection and Sorting of EVs: Analysis and Characterization of Background Noise Sources That May Impact EV Fluorescence or Scatter Detection*

Room: MET 3

**BIOLEGEND**, *Committed to enabling superior multicolour flow cytometry for enhanced complex Immunophenotyping*

Room: MET 16

**CHEMOMETEC**, *Live workshop: cell counting and analysis using image cytometry*

16:30-17:30 Scientific Workshops 1

Room: MET 2

**Anna Petrunkina and Richard Grenfell**, *Enterprise Core – the next generation*

Room: MET 3

**Becki Pike and Richard Ellis**, *CytOF the first hundred days*

Room: MET 15

**Ian Dimmick**, *Photon Detection, a proposal for a national QC for all flow cytometers*

Room: MET 16

**Rachael Walker**, *Careers: Going with the flow?*

17:45-18:30 Room: MET 1

Session 2. Chair: Rachael Walker, Babraham Institute

**Keynote Speaker:**

**Lee Herzenberg** (Stanford University)

*The Fluorescence-Activated Cell Sorter (FACS) – the first biotech instrument*

18:30-20:00 POSTERS AND BUFFET

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## THURSDAY 21st JULY

- 09:00-10:45: Room: MET 1  
Session 3. Chair: **Peter O'Toole** (University of York)
- 09:00-09:45 **Keynote Speaker:**  
**James Brewer** (Glasgow University)  
*tbc*
- 09:45-10:15 **David Onion** (University of Nottingham)  
*Sub-Micron Flow Cytometry for Micro- and Nano-Particle Delivery and Characterisation*
- 10:15-10:45 **Gary Warnes** (Queen Mary London University)  
*A Cell Cycle Dependent Study of ER stress and Autophagy*
- 10:45-11:15 TEA AND EXHIBITION
- 11:15-12:15 Commercial Workshops II
- Room: MET 2  
**BD BIOSCIENCES**, *BD Innovations: A new and easy way of cell sorting*
- Room: MET 15  
**BECKMAN COULTER**, *CytoFLEX: it fits, compact, powerful, sensitive – see what you have been missing*
- Room: MET 16  
**FLUIDIGM**, *Understanding biological heterogeneity through Mass Cytometry with Helios*
- Room: MET 3  
**THERMO FISHER SCIENTIFIC**, *Find out how Automated Cell Imaging can Complement your Flow Cytometry Data*
- 12:15-13:15 LUNCH
- 13:15-15:00 Room: MET 1  
Session 4. Chair: **Anna Petrunkina** (University of Cambridge)
- 13:15-14:00 **Keynote Speaker:**  
**Wolf Reik** (Babraham Institute)  
*Epigenetic reprogramming in mammalian development*

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- 14:00-14:30 **Chris Langsdorf** (Thermo Fisher Scientific)  
*Site-specific conjugation of novel fluorophores and tags to accelerate therapeutic antibody discovery and development*
- 14:30-15:00 **Barry Moran** (Trinity Biomedical Sciences Institute)  
*Large Cytometry Panels to Elucidate Immune Dysregulation in Human Disease*
- 15:00-16:00 Scientific Workshops II
- Room: MET 15  
**Jenny Hincks**, *Trials and Tribulations of Sample Analysis*
- Room: MET 3  
**Andy Riddell and Ray Hicks**, *Research Development in a Flow Cytometry Core Facility*
- Room: MET 2  
**Derek Davies and Rachael Walker**, *Best Practices in the core*
- 16:00-16:30 TEA AND EXHIBITION
- 16:00-17:45 Room: MET 1  
Session 5. Chair: **Richard Grenfell** (University of Cambridge)
- 16:30-17:30 RMS Medal for Flow Cytometry and RMS Diploma - Winners session
- Karen Hogg** (Department of Biology, University of York)  
*Quantification of drug traffickers and symbionts*
- Fredrik Wallberg** (The Institute of Cancer Research)  
*Time-lapse imaging of cell death*
- 17:30-17:45 RMS Cytometry Section AGM
- 17:45-18:30 Room: MET 1  
Session 6. Chair: **Derek Davies** (The Francis Crick Institute)
- Keynote Speaker:**  
**Paul Wallace** (Roswell Park Cancer Institute)  
*mRNA assessment by Flow Cytometry using the Branched DNA technique*
- 19:00-22:00 DRINKS RECEPTION AND DINNER

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**FRIDAY 22nd JULY**

- 09:00-10:15 Room: MET 1  
Session 6. Chair: **Andy Filby** (University of Newcastle)
- 09:00-09:45 **Keynote Speaker:**  
**Muzlifah Haniffa** (Newcastle University)  
*Functional heterogeneity of human mononuclear phagocytes in health and disease*
- 09:45-10:15 **Lorinda Turner** (University of Cambridge)  
*Multi-dimensional immunophenotyping and multivariate analysis– A customisable service for patient studies in the Cambridge BRC Cell Phenotyping Hub*
- 10:15-11:15 Commercial Workshops III
- Room: MET 15  
**BECKMAN COULTER**, tbc
- Room: MET 2  
**BIORAD LABORATORIES LTD AND PROPEL LABS**, *Fast and Furious Flow Cytometry Hits fcuk*
- Room: MET 3  
**THERMO FISHER SCIENTIFIC**, *Advantages of Acoustic based Flow Cytometry for the detection of Rare events*
- 11:15-11:45 TEA AND EXHIBITION
- 11:45-12:45 Scientific Workshops III
- Room: MET 3  
**Andy Filby**, *Death of a salesman, re-birth of the Scientist”: Maintaining publication history in the Core*
- Room: MET 15  
**Gary Warnes, Fredrik Wallberg and Rosie Clarke**, *Cell Death & the Flow Cytometrist:- Old & New Ways to Die*
- Room: MET 2  
**Richard Grenfell and Natalia Savinykh**, *Tips and tricks for cell sorting – or how to survive a cell sort*
- 12:45-13:30 Room: MET 1  
Session 7. Chair: **Rachael Walker** (Babraham Institute)

**Keynote Speaker:**

**Howard Shapiro** (Shapiro Laboratories)

*Cytometry in Perspective: a six-decade log*

13:30-14:30 LUNCH AND DEPARTURE