5th flowcytometryUK Meeting

20-22 July 2016

Leeds MET Hotel

Organisers:
Derek Davies & Rachael Walker
**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 (COX20) 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**, *BD Biosciences: Innovations in Cell Analysers*  
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: Theoretical and practical demonstration of image cytometry functions on the Chemometec NucleoCounter series*

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
THURSDAY 21st JULY

09:00-1045: Room: MET 1
Session 3. Chair: Peter O’Toole (University of York)

09:00-09:45 Keynote Speaker:
James Brewer (Glasgow University)
Imaging Infection and Immunity in Vivo

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

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

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, Development in Cytometry

Room: MET 2
Derek Davies and Rachael Walker, Best Practices in the core

16:00-16:30 TEA AND EXHIBITION

16:30-17:45 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
FRI
DAY 22nd JULY

09:00-10:15  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, Kaluza software - speed up and simplify your data analysis

Room: MET 16
BIO-RAD LABORATORIES LTD AND PROPEL LABS, Fast and Furious Flow Cytometry Hits fck

Room: MET 3
THERMO FISHER SCIENTIFIC, Cell biology research at top speed: new tools and techniques for flow cytometry

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 and Fredrik Wallberg, 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  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