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## Midlands Innovation Flow Cytometry Meeting 2024

**9:00 Registration and Coffee (Foyer)**

**9:30 Welcome (Gilbert Murray)**



Professor Andrea Cooper Director of Research College of Life Sciences, University of Leicester and Professor Lucy Fairclough Chair of the Midlands Innovation Flow Cytometry Group.

**9:45 Session 1 (Gilbert Murray)**

**Adam Wright** (University of Leicester) - CD4+ and CD8+ type-2 T cells are enriched in sputum of patients with COPD eosinophilic exacerbations.

**Rebecca Bignold** (Aston University) - CXCL12 inhibitor targets airway remodelling without modulating immune response in allergic asthma.

**Laura Bartlett** (University of Nottingham) - Chronic exposure to cigarette smoke extract in mice results in systemic immune cell profiles reflective of human chronic obstructive pulmonary disease.

**Bev Goward** (SONY Biotechnology) - Expanding the possibilities with spectral flow cytometry; from cell sorting to data analysis.

**10:45 Coffee Break (Foyer) & Cell Sorter Demonstrations (Shearsby)**

**11:15 Session 2 (Gilbert Murray)**

**Christian Thomas** (University of Leicester) - Single Cell Sequencing of the Desert locust Auditory Organ.

**Une Kontrimaite** (University of Nottingham) - Investigating the Impact of Fluorescence Activated Cell Sorting on the Metabolome of Glioblastoma Tumoursphere Model.

**Rebecca Dale** (University of Leicester) - Blood Leukocyte Characterisation in Eosinophilic Granulomatosis with Polyangiitis.

**Morgan Blaylock** (BD) - BD FACSDiscover™ - S8 Cell Sorter. See what you sort. Sort what you see.

**TBC** (ThermoFisher)- Unveiling New Discoveries through Image-Enhanced Flow Cytometry.

**Sharon Sanderson** (BIO-RAD) - StarBright Dyes - Simplifying Flow Cytometry with 8-Color No Compensation Panels.



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## 12:30 Lunch, Posters, Exhibition (Foyer) & Cell Sorter Demonstrations (Shearsby)

### 13:30 Session 3 (Gilbert Murray)

**Harry Porter** (University of Nottingham) - Analysis of Tumour-Astrocyte Crosstalk in 3D using a Human Brain Specific Extracellular Matrix Hydrogel.

**Lewis Yandle** (Aston University) - Flow cytometry as a tool to study the physiology of the recombinant yeast, *Pichia pastoris*: Optimising lipase enzyme expression.

**Vipul Batra** (University of Nottingham) - Embracing Failure: Insights Gained from Seminal Vesicle Exosome Research Setbacks.

**Robert Durkin** (Beckman Coulter) - Flow Solutions for Extracellular Vesicle Research.

**Adam Davidson** (Cytek Biosciences) - Introducing the Cytek Aurora CS new horizons in multidimensional cell sorting.

**Dawar Pasha** (Standard BioTools) - Updates to high dimensional flow cytometry and spatial biology powered by CyTOF.

### 14:45 Coffee Break (Foyer)

### 15:00 Keynote Speaker (Gilbert Murray)

**Dr Peter Cook** (University of Exeter) - Aspergillus, asthma and the airway: Why do fungi trigger inflammatory lung diseases?

### 15:45 Concluding Remarks & Prizes (Gilbert Murray)

### 16:00 Reception & Conference Close (Foyer)

For talk and poster abstracts visit our website or scan:

<https://midlandsinnovation.org.uk/flow-cytometry-conference-2024/>



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