UNIVERSITY OF LEICESTER

The University of Nottingham
UNITED KINGDOM · CHINA · MALAYSIA

NHS National Institute for Health Research

# Joint Respiratory Research Day

29th May 2019



## Jubilee Conference Centre

Triumph Road, Nottingham, NG7 2TU

Held in conjunction with Nottingham Centre for Respiratory Research
& Leicester Respiratory Biomedical Research Unit

Get in touch at MS-NMPN@nottingham.ac.uk

Nottingham Respiratory Research Unit

EMBER

Nottingham Molecular Pathology Node

INSTITUTE FOR LUNG HEALTH LEICESTER

# Programme

| | | |
|---|---|---|
| 8.45 | Coffee & Registration | |
| 9.25 | Welcome and Introduction by Professor Alan Knox | |
| **Chair:** | **Prof Salman Siddiqui – University of Leicester** | |
| 9.30 | Topological data analysis to visualise the lungs and small airways in adult asthma | Alexander Bell (UoL) |
| 9.45 | Two-sample Mendelian randomisation analyses of blood eosinophil counts and quantitative lung function traits | Anna Guyatt (UoL) |
| 10.00 | Elk1 gene deletion promotes early fibrotic changes and up-regulation of fibrotic genes in the ageing lung and liver | Jennifer Cairns (UoN) |
| 10.15 | Genome-wide gene-smoking interaction analysis of lung function in UK Biobank identifies genes which may interact with smoking behaviour (UoL) | Carl Melbourne (UoL) |
| 10.30 | Refreshments | |
| **Chair: Prof Simon Johnson - University of Nottingham** | | |
| 11.00 | Type 2 cytokines and biomarkers in asthma patient sera show coordinated expression and identify patient subsets | Karina Bingham (UoN) |
| 11.15 | TGFβ1-induced resistance to oxidant-induced human lung myofibroblast cell death is mediated via downregulation of TRPA1 | Harvinder Virk (UoL) |
| 11.30 | Investigating the role of AKAP13 on epithelial cell TGFbeta activation | Louise Organ (UoN) |
| 11.45 | Meta-analysis of idiopathic pulmonary fibrosis genome-wide analyses identifies three novel genetic signals associated with IPF susceptibility | Richard Allen (UoL) |
| 12.00 | KCa3.1 channel is expressed by component cells of lymphangioleiomyomatosis (LAM) nodules | Shamsa Naveed (UoL) |
| 12.15 | Lunch & poster exhibition | |
| **Chair: Prof Mick Steiner – University of Leicester** | | |
| 13.30 | The effect of blocking IL-33 in the bleomycin mouse model of pulmonary fibrosis | Katherine Stephenson (UoN) |
| 13.45 | Computational modelling prediction and clinical validation of impact of benralizumab on airway smooth muscle mass in asthma (UoL) | Sarah Diver (UoL) |
| 14.00 | IL33 receptor activation is IL33 isoform and receptor genotype specific | Michael Portelli (UoN) |
| 14.15 | Biomechanical models coupled to TGFbeta activation in the asthmatic airway | Hannah Pybus (UoN) |
| 14.30 | Airway smooth muscle cell morphology and α-smooth muscle actin is modulated by substrate stiffness | Jopeth Ramis (UoN) |
| 14.45 | Refreshments | |
| **Chair: Prof Alan Knox** | | |
| 15.15 | Key Note Speaker: Prof Ian Adcock | |
| 16.05 | The Wendy Stannard Prize for Best Presentation | |
| 16.15 | Cheese & wine gathering<br>(The cheese and wine gathering is not financially supported by or endorsed by our sponsors) | |

The event from 9.25 – 16.15 has been financially supported through the purchase of exhibition trade space by the following companies, none of whom have had influence on the agenda or speaker selection.



Nottingham Molecular Pathology Node