# Midlands Academy of Medical Sciences Research Festival

**Friday 23rd March 2018**  
Loughborough University, Hollywell Park

## Schedule

<table>
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<tr>
<th>Time</th>
<th>Session/Activity</th>
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<tr>
<td>9.00</td>
<td><strong>Registration &amp; Poster Set Up</strong></td>
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| 9.50  | **Welcome to the Midlands Academy of Medical Sciences Research Festival**  
Professor Mark Lewis (Loughborough University) |
| 10.00 | **Guest Lecture**  
*Chair: Professor Mark Lewis (Loughborough University)* |
| 10.00 | KT1  
*Dr Vicky Robinson* NC3Rs (National Centre for the Replacement, Refinement and Reduction of Animals in Research)  
THE 3Rs OF ANIMAL RESEARCH – CHAMPIONING SCIENCE AND INNOVATION |
| 10.30 | O1  
*Sarah Brown* (University of Nottingham)  
AN IN SILICO STUDY OF ALTERED AIRWAY SMOOTH MUSCLE AND EXTRACELLULAR MATRIX STRUCTURE IN THE REMODELLED ASTHMATIC AIRWAY |
| 10.45 | O2  
*Eva-Maria Rick* (University of Leicester)  
CHARACTERISATION OF ASPERGILLUS NIGER AND A. TUBINGENSIS RELATED ALLERGENS RELEVANT TO ASTHMA |
| 11.00 | O3  
*Bethany Jones* (Loughborough University)  
EXPLORING TRANSGENDER PEOPLE’S VULNERABILITY TO EATING DISORDER PSYCHOPATHOLOGY |
| 11.15 | O4  
*Jinous Samavat* (University of Warwick)  
VITAMINB12 DEFICIENCY TRIGGERS ADIPOCYTE DYSFUNCTION BY ENHANCING TRIGLYCERIDE BIOSYNTHESIS AND PRO-INFLAMMATORY CYTOKINE PRODUCTION: A NEW AGONIST IN METABOLIC DISEASE? |
| 11.30 | Poster Session 1 (*even numbers*) |
| 12.40 | Lunch |
13.30  AMS  Lucy Francis and James Harden
OVERVIEW OF THE ACADEMY OF MEDICAL SCIENCES

Session II  Chair: Professor Philip Baker, FMedSci (University of Leicester)

13.45  O5  Michael Rotherham (Keele University)
TARGETING CELL SIGNALLING PATHWAYS WITH MAGNETIC NANOPARTICLES
FOR TISSUE ENGINEERING- APPLICATIONS AS AN INJECTABLE CELL THERAPY

14.00  O6  Kathryn Aguilar-Agon (Loughborough University)
USING IN VITRO, BIOENGINEERED MODELS OF SKELETAL MUSCLE TO
INVESTIGATE TREATMENT MODALITIES FOR OA

14.15  O7  Nima Gharahdaghi (University of Nottingham)
A DOUBLE-BLIND PLACEBO CONTROLLED TRIAL INTO THE EFFECTS OF
TESTOSTERONE PROVISION UPON BODY COMPOSITION, GLYCAEMIC CONTROL,
GENE EXPRESSION AND ACUTE INTRA-MUSCULAR SIGNALING PATHWAYS
DURING RESISTANCE EXERCISE TRAINING IN OLDER MEN

14.30  O8  Satya Prakash (University of Warwick)
DE NOVO ENGINEERING OF RNA CIRCUITS IN E. COLI AND DIRECTED EVOLUTION
OF NOVEL BIOMOLECULES WITH PHAGE

14.45  O9  Sarah Kohe (University of Birmingham)
IN-VIVO METABOLITE PROFILES FOR THE NON-INVASIVE AND RAPID
IDENTIFICATION OF MOLECULAR SUBGROUP IN MEDULLOBLASTOMA

15.00  O10  Bradley Toghill (University of Leicester)
SMYD2 PROMOTER DNA METHYLATION IS ASSOCIATED WITH ABDOMINAL
AORTIC ANEURYSM (AAA) AND SMYD2 EXPRESSION IN VASCULAR SMOOTH
MUSCLE CELLS

15.15  Poster Session 2 (odd numbers) and coffee
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<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Presenter</th>
<th>Institution</th>
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<tr>
<td>16.15</td>
<td>O11</td>
<td>BLEEDING POST ACUTE CORONARY SYNDROME WITHIN THE ENGLISH PRIMARY CARE SETTING</td>
<td>Nafiu Ismail (Keele University)</td>
<td>Keele University</td>
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<td>16.30</td>
<td>O12</td>
<td>APPLYING CRISPR-CAS GENE EDITING AND PALM SUPER-RESOLUTION MICROSCOPY TO INVESTIGATE THE MOLECULAR CAUSES OF INHERITED THROMBOCYTOPENIA</td>
<td>Abdullah Khan (University of Birmingham)</td>
<td>University of Birmingham</td>
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<td>16.45</td>
<td>KT2</td>
<td>FKBP5 mRNA AS A BIOMARKER FOR GR ANTAGONISM: CLINICAL APPLICATION OF AN ACADEMIC DISCOVERY</td>
<td>Utsav Bali (Senior Scientist, Syngnature Discovery)</td>
<td>Senior Scientist, Syngnature Discovery</td>
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<td>17.15</td>
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<td>Prizes</td>
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<td>17.30</td>
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<td>Thank you and farewell</td>
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