BSCR Early Career Researcher Symposium 2024

26th April 2024; 09:00-17:00
The Edge, University of Sheffield, The Endcliffe Village, 34 Endcliffe Crescent, Sheffield S10 3ED
https://www.bscr.org/meetings/ecr24
bscr.ecr@gmail.com

Organising Committee
Dr Jovana Serbanovic-Canic (University of Sheffield)
Dr Sophie Saxton (University of Manchester)
Dr Lissette Sanchez-Aranguren (Aston University)
Dr Emily Noel (University of Sheffield)

Symposium Programme
09:00 – 09:50 Registration and coffee
09:50 – 10:00 Welcome
10:00 – 11:00 Facilitated networking session with Dr Sandrine Soubes (Tesselle Development)
11:00 – 12:15 ECR oral presentations selected from abstracts
   11:00 – 11:15 Endothelial Twist1 enhances features of atherosclerotic plaque stability
      Dr Blanca Tardajos Ayllón, Queen Mary University of London, London
   11:15 – 11:30 Expression and function of PIEZO1 in cardiac fibroblasts from the human heart in disease
      Anna McGrane, University of Leeds, Leeds
   11:30 – 11:45 Diet reversal improves hyperglycaemia-related coronary dysfunction and attenuates myocardial ischemia/reperfusion injury
      Dr Juma El-Awaisi, University of Birmingham, Birmingham
   11:45 – 12:00 Long QT syndrome-associated variants affect the structure of calmodulin and its interaction with calcium ion channels relevant to cardiac muscle contraction, Cav1.2 and RyR2
      Rachael Morris, University of Liverpool, Liverpool
   12:00 – 12:15 Engineered Pulmonary Artery Tissues (EPATs) – A novel technique to assess vascular contractility in vitro
      Dr Adam Fellows, Imperial College London, London
12:15 – 13:15  Lunch, posters and sponsors’ exhibition

13:15 – 14:00  Keynote session 1

*Maternal cardioprotective therapies: good or bad guys in pregnancy?*

Dr Teresa Tropea, University of Manchester, Manchester

14:00 – 15:15  ECR oral presentations selected from abstracts

14:00 – 14:15  *Serum metabolomics improve incident heart failure risk prediction*

Hyunchan Ahn, King’s College London, London

14:15 – 14:30  *Regulation of vascular calcification by PKCα-ERK-TGFβ pathway*

Dr Samantha Borland, University of Manchester, Manchester

14:30 – 14:45  *Diet-induced obesity before myocardial infarction increases skeletal muscle fatty acid transporter expression and activity in C57BL/6 mice*

Hannah Smith, University of Leeds, Leeds

14:45 – 15:00  *The mechanotransduction protein SHC regulates the flow-mediated remodelling of utero-placental vessels in pregnancy*

Dr Vedanta Mehta, University of Oxford, Oxford

15:00 – 15:15  *Assessing the effects of ageing and substrate stiffness on iPSC-CM structure, function and metabolism*

Leena Patel, University of Birmingham, Birmingham

15:15 – 16:00  Coffee, posters and sponsors’ exhibition

16:00 – 16:45  Keynote session 2

*Exploring sarcomeric gene mutations in models of cardiomyopathy*

Dr Sophie Broadway-Stringer, University of Birmingham, Birmingham

16:45 – 17:00  Closing remarks and prizes

17:30 – 19:30  Networking event