

# Programme – BAS/BSCR Spring Meeting 2019

Manchester Central, Monday 3<sup>rd</sup> and Tuesday 4<sup>th</sup> June

Organisers: Endre Kiss-Toth, Claudia Monaco, Melanie Madhani, David Grieve

## Monday 3<sup>rd</sup> June (Day 1)

Posters go up at the start of the day

**08.00 to 10.00**    **BSCR committee meeting**

**10.45 to 12.15**    **Bioengineering strategies for cardiovascular applications**

Charter 2/3

Chairs: Andrew Bond and Carolyn Carr

**Rationale for a tissue engineered myocardial regenerative patch**

*Gabor Foldes, Imperial College London, UK*

**Designing the ideal tissue engineered vascular graft**

*Nicolas L'Heureux, INSERM 1026, University of Bordeaux, France*

**Advanced preclinical models to develop and test tissue engineered cardiovascular devices**

*Raimondo Ascione, University of Bristol, UK*

**The potential of blood outgrowth endothelial cells**

*Anna Randi, Imperial College London, UK*

**12.15 to 13.45**    **Lunch, exhibition**

**12.30 to 13.30**    **Basic Science Hot Topics Session**

Education Hall – Hot Topic Zone 2

Chair: Claire Tonry

**Molecular imaging of atherosclerosis**

*Neil MacRitchie, University of Glasgow, UK*

**Using flow cytometry to assess the adaptive immune response in cardiac patients**

*Edward Stephenson, Queen Mary University of London, UK*

**Tissue-engineered vascular constructs using human pluripotent stem cells in the therapy of peripheral arterial disease**

*Eleonora Zucchelli, Imperial College London, UK*

**Discovering new therapeutic targets in cardiovascular medicine using translational approaches**

*Ioannis Akoumianakis, University of Oxford, UK*

**13.45 to 15.15 Endothelial dysfunction in heart failure**

Charter 2/3

Chairs: David Grieve and Karen Porter

**The cardiac endothelium is a modulator of cardiac fibrosis and heart failure progression**

*Gilles De Keulenaer, University of Antwerp, Belgium*

**Leukocyte-endothelium interactions as a key regulator of tissue remodeling**

*Federica Marelli-Berg, Queen Mary University of London, UK*

**Myocardial microvascular inflammatory endothelial activation in heart failure**

*Loek van Heerebeek, University Medical Center Amsterdam, The Netherlands*

**Exercise as a key determinant of endothelium/cardiomyocyte interaction and heart failure progression**

*Volker Adams, University of Dresden, Germany*

**15.15 to 15.45 Tea, exhibition**

**15.45 to 17.00 BSCR/BAS Oral Abstract Session**

Education Hall

Chair: TBC

Judges: TBC

**17.45 to 18.30 John French Lecture**

Charter 2/3

Chairs: Sheila Francis and Karen Porter

**Smooth muscle heterogeneity and plasticity**

*Helle Jørgensen, University of Cambridge*

**19.00 to 20.00 BHF Drinks Reception and Update**

Lobby outside Charter 1

**20.00 BAS/BSCR Conference Dinner**

Dukes 92, 18 - 25 Castle Street, Castlefield, Manchester M3 4LZ,

<http://dukes92.com>



## Tuesday 4<sup>th</sup> June (Day 2)

### 08.30 to 10.00 **Molecular imaging of cardiovascular inflammation**

Charter 2/3

Chairs: Pasquale Maffia and Tomasz Guzik

#### **Detecting human coronary inflammation by imaging perivascular fat**

*Charalambos Antoniades, University of Oxford, UK*

#### **Molecular imaging of atherothrombotic diseases**

*Karlheinz Peter, Baker Heart and Diabetes Institute, Melbourne, Australia*

#### **Multiplex targeted in vivo detection of vascular adhesion molecules using surface-enhanced Raman spectroscopy**

*Pasquale Maffia, University of Glasgow, UK*

#### **Molecular imaging in the assessment of cardiac physiology and disease**

*Adriana Tavares, University of Edinburgh, UK*

### 10.00 to 10.45 **Coffee, exhibition**

### 10.45 to 12.15 **BHF Bench-to-Bedside: Towards new treatments and biomarkers**

Charter 2/3

Chairs: Nilesh Samani and John Greenwood

#### **The macrophage and interstitium in cardiac repair**

*Nadia Rosenthal, The Jackson Laboratory, Bar Harbor, US*

#### **Therapeutic targeting of IL-11 to treat cardiometabolic disease**

*Stuart Cook, Duke-NUS Medical School, Singapore*

#### **Artificial intelligence and cardiac imaging**

*Declan O'Regan, MRC London Institute of Medical Sciences, UK*

#### **Exploiting the metabolome in cardiovascular disease**

*Paul Elliott, Imperial College London, UK*

**12.15 to 13.45** **Young Investigators Prize Competition**

Charter 2/3

Chair: Rod Stables

Judges: TBC

**Endothelial cell derived extracellular vesicles mediate neutrophil deployment from the spleen following acute myocardial infarction**

*Naveed Akbar, University of Oxford, UK*

**Thymosin  $\beta$ 4 – a novel regulator of low density lipoprotein receptor, related protein 1 (LRP1) in vascular disease**

*Sonali Munshaw, University of Oxford, UK*

**Identification of the major genetic contributors to Tetralogy of Fallot**

*Donna Page, University of Manchester, UK*

**Stress myocardial oxygenation and not perfusion reserve determines arrhythmic risk in hypertrophic cardiomyopathy: insights from a novel oxygen-sensitive CMR approach**

*Betty Raman, University of Oxford, UK*

**13.45 to 15.15** **BSCR/BAS Poster Session**

Education Hall

Judges: TBC

**15.15 to 16.00** **Tea, exhibition**

**16.00 to 17.00** **Spotlight on BHF Fellows**

Charter 2/3

Chairs: Metin Avkiran and Jeremy Pearson

**Role of ERK5 in mitochondrial dysfunction in diabetic cardiomyopathy**

*Wei Liu, University of Manchester, UK*

**How to make blood from blood vessels: insights from the zebrafish**

*Rui Monteiro, University of Birmingham, UK*

**Microtubule-dependent mechanisms in cardiovascular disease**

*Xuan Li, University of Cambridge, UK*

**Lp(a) as a potential therapeutic target in aortic stenosis**

*Marc Dweck, University of Edinburgh, UK*

**17.00 to 17.15** **Meeting close and poster prizes**

Charter 2/3