

# **BSCR Autumn Meeting: *Cardiac Metabolic Disorders and Mitochondrial Dysfunction***

**Richard Doll Building, University of Oxford, 11-12 September 2017**

## **Early Career Symposium**

**8.30-8.40 Welcome**

**8.40-10.00-Session 1**

8.40-9.00: *The hitchhiker's guide to a successful cardiovascular biologist*

Prof. Jon Gibbins, Reading University

9.00-9.20: *Public engagement for researchers*

Dr Kimberley Bryon-Dodd, Reproductive BioMedicine Online

9.20-9.40: *How to convince a grants or fellowships committee to fund you*

Noel Faherty, Research Advisor, British Heart Foundation

9.40-10.10: *Is science irreproducible?*

Prof David Eisner, University of Manchester

**10.10-10.30 Coffee Break**

**10.30-12.00 Session 2**

10.30-11.00: *Genome editing strategies using CRISPR/Cas9: Modelling human diseases in a dish.*

Dr Felipe Serrano-Tejero, University of Cambridge

11.00-11.30: *Science and Clinical Medicine - talking different languages but asking the same question?*

Dr Gwilym Morris, Consultant cardiologist, Central Manchester Foundation Trust  
& BHF Clinical fellow, University of Manchester

11.30-12.00: *Understanding experimental design in animal research*

Dr Manuel Berdoy, University of Oxford

**12.00-12.05 Closing remarks**

## **Main Meeting**

**13.00-13.05**      **Welcome** David Grieve

**13.05-14.25**      ***Diagnostics of metabolic disorders***

**Chairs:** Carolyn Carr, Damian Tyler

13.05 -13.30      Jules Griffin      Cambridge  
*Cardiovascular metabolomics and its application to the metabolic syndrome*

13.30-13.55      Gerry McCann      Leicester  
*Why young people with diabetes develop heart damage*

**Selected oral abstracts:**

13.55 – 14.10      Alexander Stockenhuber      Oxford  
*Energetic deficiency and adenosine receptor signalling in cardiac fibrosis*

14.10 – 14.25      Joanne Holliday      Nottingham  
*Factor inhibiting HIF (FIH1) modulates cardiac function and metabolism*

14.25 – 14.40      Paul Potter      Harwell  
*Cardiac arrhythmia resulting from an accumulation of branched chain amino acids in a mouse line with a mutation in Bcat2*

**14.40-15.30**      **Coffee & Tea & posters (13 post-doc posters judged)**

**15.30-18.00**      ***The Bernard and Joan Marshall Awards.***

**Chair:** David Hearse

15.30 – 16.30      Young Investigator Award

15.30 – 15.50      Tom Parks      London School of Hygiene and Tropical Medicine

15.50 – 16.10      Johannes Bargehr      Cambridge

16.10 - 16.30      Eylem Levelt      Leicester

16.30 – 17.00      The Bernard and Joan Marshall Research Excellence Lecture  
Stephen Wheatcroft      Leeds

17.00 – 18.00      **The Bernard and Joan Marshall Distinguished Investigator lecture**  
Introduced by Stefan Neubauer

Rong Tian      University of Washington

**19.15**      **Drinks & Dinner at Balliol College, Oxford**

## **Day 2**

**09.00– 09.55**      **Selected oral abstracts:**

**Chairs:** Kieran Clarke, Ellen Aasum

09.00 – 09.15      Andrea Ruiz Velasco Hernandez      Manchester  
*ERK5 degradation: a turning point from compensated metabolic cardiomyopathy to heart failure*

09.15 – 09.30      Ines Abdesselam      Oxford  
*Very low calorie diet in obesity improves metabolic risk factors at the initial cost of*

*ventricular function and steatosis*

**Invited speaker**

09.30 – 09.55

Chuck Cunningham

Toronto

*Recent developments in hyperpolarised <sup>13</sup>C MR for studying cardiac disorders*

**09.55 – 11.00**

**Coffee & Tea & posters (26 student posters judged)**

**11.00 – 12.40**

***Mitochondrial dysfunction***

**Chairs:** Sean Davidson, Karen Porter

11.00 – 11.25

Lisa Heather

Oxford

*Metabolic plasticity and the mitochondria*

11.25 – 11.50

Heiko Bugger

Freiburg

*Mitochondrial sirtuins in cardiovascular disease*

11.50 – 12.15

Paolo Bernardi

Padua

*Mitochondrial ATP Synthase and the mitochondrial permeability transition pore*

12.15 - 12.45

Craig Lygate

Oxford

*Focus on mitochondrial creatine kinase*

**12.45 – 13.15**

**AGM & Poster Awards**

**13.15 – 13.45**

**Lunch**

**13.45 – 16.00**

***Novel Metabolic Therapies***

**Chairs:** David Grieve, Mark Cole

13.45 – 14.10

British Pharmacological Society Lecture:

Michael Frenneaux

UEA/Aberdeen

*Metabolic therapies for heart failure*

14.10 - 14.35

Ellen Aasum

Tromsø

*How exercise may amend metabolic disturbances in diabetic cardiomyopathy.*

14.35 – 15.00

Kieran Clarke

Oxford

*A new food group to improve physical performance and cognitive function*

15.00 – 15.25

Susan Jebb

Oxford

*The role of diet in the incidence of cardiovascular disease*

**15.25 – 15.45**

**Coffee & Tea**

15.45 – 16.30

**Keynote Speaker**

Introduced by Lisa Heather

Mike Murphy

Cambridge

*Mitochondrial redox alterations in health and disease*

16.30

Meeting close