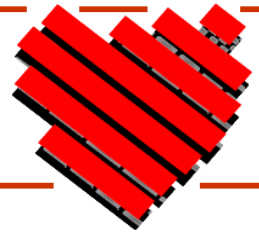

THE BRITISH SOCIETY FOR CARDIOVASCULAR RESEARCH



Autumn Meeting 2019

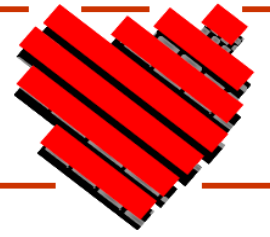


Heart Failure – New Therapeutic Strategies

Emmanuel College

University of Cambridge

9th-10th September 2019



Autumn Meeting 2019

Heart Failure – New Therapeutic Strategies

Early Careers Symposium

Dates: 9th September 2019

Venue: University of Cambridge, Emmanuel College

Organisers: Ana-Mishel Spiroski & Tian Ziao

Day 1

08.30 – 09.00 Early Career Symposium Registration

9.00 – 12.00 Early Career Symposium

9.00 – 10.15 Session 1

Chair: Tian Ziao

09.00 – 09.25 **Aravinda Page, Royal Papworth Hospital**

Heart donation-pushing the boundary

09.25 – 09.50 **Murray Clarke, University of Cambridge**

Zen and the art of grantsmanship for early career scientists

09.50 – 10.15 **Andrew Sage, University of Cambridge**

Animal models in cardiovascular research: The good, the bad, and the least predictive

10.15 – 10.45 **Morning Tea**

10.45 – 12.00 Session 2

Chair: Ana-Mishel Spiroski

10.45 – 11.10 Naveed Akbar, University of Oxford

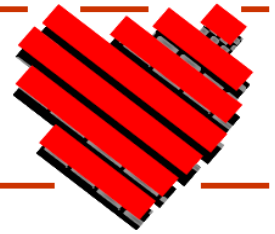
Extracellular vesicles target immune cells in acute myocardial infarction

11.10 – 11.35 Duncan Richards, University of Oxford

A career in translational research: From academia to pharma

11.35 – 12.00 Praveen Paul, Director & Co-Founder Pint of Science

How to pour a pint of science



Autumn Meeting 2019

Heart Failure – New Therapeutic Strategies

Scientific Programme

Dates: 9th-10th September 2019

Venue: University of Cambridge, Emmanuel College

Organisers: Sanjay Sinha, Thomas Krieg, Ana-Mishel Spiroski & Tian Ziao

11.00 – 13.00 **Registration**

12.00 – 13.00 **Lunch**

13.00 – 13.05 Welcome and Introduction – **Sanjay Sinha**

13.00 – 15.15 Session 1: Pathobiology and management of heart failure

Chair: David Grieve & May Azzawi

13.05 – 13.30 **Sanjay Prasad, Royal Brompton & Harefield**

Advances in diagnosis and management of heart failure

13.30 – 13.55 **Jolanda Van Der Velden, Amsterdam University Medical Centre**

Sarcomeric mutations as a cause for heart failure

13.55 – 14.20 **Michael Schneider, Imperial College London**

Intensive Care for Human Hearts in pluripotent Stem Cell Models

14.20 – 14.35 **Abstract Presentation: Kateryna Sopova** - *Circulating cathepsin s levels predict mortality and improve risk stratification over the grace score in patients with non-st elevation acute coronary syndromes*

14.35 – 14.50 **Abstract Presentation: Eleftherios Zormpas** - *Intronic ALU RNA editing couples mrna stability with pre-mrna processing of inflammatory gene expression in human atherosclerotic heart disease*

14.50 – 15.15 **Afternoon Tea/Coffee**

15.15 – 16.35 Session 2: BSCR Bernard and Joan Marshall Young Investigator Award Talks

Chair: Karen Porter

Co-judges Duncan Richards, Michael Schneider, Helen Arthur

- 15.15 – 15.35 **Andrew Lewis** - *Noninvasive immunometabolic cardiac inflammation imaging using hyperpolarized magnetic resonance*
- 15.35 – 15.55 **Kerstin Timm** - *Early detection of doxorubicin-induced heart failure via its in vivo metabolic signature*
- 15.55 – 16.15 **Michael Preedy** - *Phosphodiesterase 2 inhibition preferentially promotes NO/guanylyl cyclase/cGMP signaling to reverse the development of heart failure*
- 16.15 – 16.35 **Francesco Mazzarotto** - *Defining the diagnostic effectiveness of genes for inclusion in panels: the experience of two decades of genetic testing for hypertrophic cardiomyopathy at a single center*

16.35 – 17.35 Bernard and Joan Marshall Distinguished Lecture

Chair: Sanjay Sinha

Joseph Wu, Stanford University

Stem Cells & Genomics for Precision Medicine

17.35 – 19.00 Session 3: Poster Presentations and Wine Reception

19.30 **BSCR Conference Dinner, Emmanuel College**

BSCR Marshall and Poster Prize Presentations

Prize-giving – Karen Porter

Day 2

9.15 – 10.35 Session 4: Cell Therapy and Tissue Engineering for Heart Failure

Chair: Joseph Wu & Carolyn Carr

09.15 – 09.30 **Abstract Presentation: Lay Ping Ong** - *Cellular therapy for heart failure*

09.30 – 09.55 **Molly Stevens, Imperial College London**

Scaffolds and gels for cardiac regeneration

09.55-10.20 **Chris Denning, University of Nottingham**

hPSC-derived cardiomyocytes to model heart disease

10.20 – 10.35 **Abstract Presentation: Oisín King** - *Non-myocyte influence on excitation-contraction coupling in induced pluripotent stem cell derived myocardium*

10.35 – 11.00 **Morning Tea/Coffee**

11.00 – 13.00 Session 5: Cell Therapy and Tissue Engineering for Heart Failure 2

Chair: **Ajay Shah & Sarah Withers**

11.00 – 11.25 **Wolfram Zimmermann, University Medical Centre Gottingen**

Engineered human myocardium

11.25-11.50 **Mairi Brittan, University of Edinburgh**

Mechanisms to promote endothelial-mediated neovasculogenesis in heart failure

11.50 – 12.05 **Abstract Presentation: Robert Johnson** - *Human myofibroblasts increase the arrhythmogenic potential of human-induced pluripotent stem cell-derived cardiomyocytes*

12.05 – 12.20 **Abstract Presentation: Sophie McManus** - *BNC1 is a key regulator of human epicardial heterogeneity and function*

12.30 – 13.00 **BSCR AGM**

13.00 – 13.45 **Lunch**

13.45 – 15.25 Session 6: The AstraZeneca session on Academia-Industry Interface in Heart Failure

Chair: **Andrew Bond & Chris Denning**

13.45 – 14.10 **Angela Russell, University of Oxford**

Chemistry for regenerative medicine: discovery of small molecules to manipulate stem cell fate

14.10 – 14.35 **Peter Sandner, Bayer**

Guanylyl cyclase modulators

14.35 – 15.00 **Shamus Husheer, Heartfelt**

Innovation in Heart Failure : A Start-Up Story

15.00 – 15.25 **Andrew Hall, AstraZeneca**

Heart failure as a consequence of oncology treatment - the challenges, models and approaches used to understand the mechanisms behind structural cardiac toxicity

15.30 – 16.15 Keynote Lecture introduced by Thomas Krieg

Ajay Shah, King's College London

ROS, NO and heart failure

16.15 **Concluding remarks and meeting close – Thomas Krieg**