



**Cardiovascular Early Careers Event**  
Tuesday 13<sup>th</sup> September 2016, McGrath Centre  
St Catharine's College, Cambridge CB2 1RL



**08.30 – 09.00 Registration & Tea**

Session 1 Biomedical Science (Animal)

09.00 – 09.15 Prof Martin Bennett (Medicine) – *Opening words*

09.15 – 09.30 Dr Kim Botting (Physiology, Development & Neuroscience)

*The mitochondrial-targeted antioxidant MitoQ prevents the programming of cardiovascular dysfunction by developmental hypoxia in sheep*

09.30 – 09.45 Ms Elena Loche (Clinical Biochemistry)

*Maternal over-nutrition programs ventricular remodelling and cardiac dysfunction independently of post-natal diet*

09.45 – 10.00 Dr Ana-Mishel Spiroski (Physiology, Development & Neuroscience)

*Developmental programming of pulmonary hypertension by chronic prenatal hypoxia*

10.00 – 10.30 Professor Nicole Soranzo (Sanger institute) – *Career keynote*

**10.30 – 11.00 Tea & Posters**

Session 2 Bioengineering

11.00 – 11.15 Dr Marta Serrani (Chemical Engineering & Biotechnology)

*Durability prediction for the design of a new polymeric heart valve prosthesis*

11.15 – 11.30 Dr Vera Graup (Materials Science & Metallurgy)

*Designing scaffold biomaterials for heart tissue repair*

11.30 – 11.45 Dr Felipe Serrano (Medicine)

*Correction of Marfan mutation C1242Y in human iPSC cells using CRISPR/Cas9 technology re-establish normal phenotype in human neural crest-derived smooth muscle cells*

11.45 – 12.30 Dr Craig Brierley (Research Communications) – *Promoting research via blogging*

**12.30 – 13.30 Lunch**

Session 3 Biomedical Science (Bench)

13.30 – 14.15 Dr Barney Brown (Research Communications) – *Promoting research via social media*

14.15 – 14.30 Mr Adam Fellows (Medicine)

*FOXO3A induces VSMC apoptosis through MMP-13: implications for atherosclerotic plaque rupture*

14.30 – 14.45 Ms Amanda Dalby (Haematology)

*Generating an inducible human iPSC line to produce mature megakaryocytes in vitro*

14.45 – 15.00 Mr Fedir Kiskin (Medicine)

*Development of iPSC models of pulmonary arterial hypertension*

**15.00 – 15.30 Tea & Posters**

Session 4 Clinical

15.30 – 15.45 Dr Eleni Sofianopoulou (Public Health & Primary Care)

*Modelling seasonal and spatio-temporal variation: the example of respiratory prescribing*

15.45 – 16.00 Mr Shuo Wang (Radiology)

*Structural and flow-diverting effects of multiple overlapping uncovered stents: a novel management strategy for thoracoabdominal aortic aneurysm*

16.00 – 16.15 Dr Nicholas Evans (Clinical Neurosciences)

*Non-invasive identification of culprit carotid atheroma using NaF-positron emission tomography*

16.15 – 17.00 *Fellowship application talks followed by Funding Panel Q&A*

**17.00 – 18.00 Prizes & Closing words, Drinks Reception**