

Cardiometabolic Early Career Researchers' Event: Encouraging Collaboration and Connectivity

09:00 Professor Toni Vidal-Puig: *Welcome & Introduction to the HLRI*

Session 1: Developmental programming of cardiometabolic disease. Chaired by Dr Ana-Mishel Spiroski

09:15 Professor Sue Ozanne: *Programming by maternal overnutrition: A developing obesity crisis*

09:45 H Yong: *IGF2 deletion from the placental endocrine layer alters maternal sensitivity to glucose and insulin, and affects fetal and early postnatal growth in mice*

09:55 R Hess: *What's that smell? First evidence of cardio-protective actions of hydrogen sulphide in the developing heart*

10:05 AM Spiroski: *Sex-specific programming of cardiac bioenergetics by chronic hypoxic pregnancy and mitochondria-targeted antioxidant therapy*

10:20 Connections session: *Identifying links between research areas*

Session 2: Translational science: From bench to bedside. Chaired by Dr Ana-Mishel Spiroski

11:35 Dr Magnus Alhage: *From bench to bedside through translatable in vitro models*

12:05 Dr Duncan Richards: *Anti-SAP treatment for systemic amyloidosis; the value of mechanistic models*

12:35 Techniques session: *A chance to find others with similar interests*

13:10 Lunch & poster session

Session 3: Inflammation and platelet function in cardiometabolic disease. Chaired by Dr Tessa cacciottolo

14:20 Professor Khalid Naseem: *New models of Platelet Hyperactivity - the Proinflammatory Platelet.*

14:50 M Nus: *Marginal zone B cells limit TFH differentiation in atherosclerosis in response to a high cholesterol diet*

15:00 V Azzu: *Is de novo lipogenesis a driver of fibrosis in non-alcoholic fatty liver disease?*

15:10 S Burgess: *Inhibiting TMEM16F, a platelet scramblase*

15:25 Tea & Coffee

Session 4: Mechanisms of obesity and its cardiometabolic effects. Chaired by Dr Tessa cacciottolo

15:40 Professor Sir Stephen O'Rahilly: *Some observations on the causes and consequence of obesity*



16:10 J Beeson: *Effect of maternal exercise during obese pregnancy on the cardiovascular health of male mouse offspring*

16:20 G Bidault: *SREBP1c mediated de novo lipogenesis sequesters NADPH to inactivate macrophages antioxidant defences and promote their alternative activation*

16:30 V Auyeung: *Investigating the aetiologic links between the gut microbiota, metabolic profiles and metabolic disease*

16:45 Professor Toni Vidal-Puig: *Prizes & closing remarks*

17:00 Drinks and Networking