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 Althage: 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 drive 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