TITLE: NEUTROPHILS RECRUITE TO THE MYOCARDIUM AFTER ACUTE EXPERIMENTAL MYOCARDIAL INFARCT GENERATE HYPOCHLOROUS ACID THAT OXIDIZES CARDIAC MYOGLOBIN

Invited speaker: Associate Professor Paul Witting
Discipline of Pathology, The University of Sydney

Associate Professor Paul Witting is a research academic working in the Discipline of Pathology, The University of Sydney (USyd). Paul completed his PhD in Chemistry in 1994 and then worked together with Professor Roland Stocker at the Heart Research Institute (1994-1999). He was awarded a Heart Foundation Travel Fellowship (2000-2002) that funded a postdoctoral position at the University of British Columbia (Canada). On returning to Australia he gained a nationally competitive ARC Fellowship (2003-2007) and continued as a postdoctoral researcher at the ANZAC Research Institute. He joined the Discipline of Pathology in 2008 and established the Redox Biology Group. The primary research focus for his group is cardiovascular disease and more broadly vascular biology. The main goals of the research are to define the underlying mechanisms of acute injury to tissues and design and test specific inhibitors of oxidative damage and inflammation that may be central to the developing pathology.

TITLE: MODULATION OF MYELOPEROXIDASE ATTENUATES EXPERIMENTAL COLITIS IN MICE - A POTENTIAL THERAPEUTIC ROLE FOR CYCLIC NITROXIDES

Invited speaker: Dr. Belal Chami
Postdoctoral MAWA fellow, Discipline of Pathology, The University of Sydney

Dr Belal Chami is interested in exploring the relationship between oxidative stress/damage in the evolution of tissue damage in acute and chronic inflammatory conditions, namely Inflammatory Bowel Disease (IBD). Myeloperoxidase is a complex protein produced primarily by neutrophils, whereby powerful hydrogen halide oxidants are produced – namely hypochlorous acid (HOCl). Left unregulated, MPO and subsequently produced HOCl cause irreparable damage, leading to cell death and host-tissue injury in many diseases. Dr Belal Chami research focuses on modulating MPO activity via antagonists and dietary approaches in a model of IBD.

WEDNESDAY 10TH MAY 2017, 1 – 2 PM
Auditorium, Research & Education Centre
St George Hospital, Ground floor, 4 – 10 south St, Kogarah

Light refreshments will be provided

Please register your interest with the organising committee:
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