



Department of Biochemistry and Molecular Biology

2017 Seminar Series

Wednesday 12th of July

12-1pm

Bio21 Institute Auditorium

30 Flemington Road, Parkville

Graeme Lancaster

Baker Heart and Diabetes Institute

Metabolic Disease and Inflammation: Making sense of lipid sensing

Dr Graeme Lancaster is a group leader at the Baker Heart and Diabetes Institute (2017 - present). Dr Lancaster previously worked in the laboratories of Professor Mark Febbraio (2004-2015) and Professor Scott Summers (2016). Dr Lancaster's research is focused on understanding the cellular and molecular mechanisms associated with nutrient sensing (particular lipids), and how the activation of specific nutrient sensing pathways in obesity leads to inflammation and metabolic dysfunction.

Chronic inflammation is a hallmark of obesity and is linked to the development of numerous diseases. The initiation of inflammation by obesity is mediated by the actions of numerous cellular lipid "sensors", which couple changes in the cellular lipid environment to the activation of inflammatory signaling pathways. In this talk I will discuss our recent work on two putative lipid sensing molecules, protein kinase R (PKR) and toll-like receptor 4 (TLR4). The findings from our work challenge the commonly held view of the role of these molecules in obesity-induced inflammation and metabolic disease.

ALL WELCOME. Please join us for a light lunch after the seminar!

Further information: Matthew Dixon (matthew.dixon@unimelb.edu.au)