



**Institute of  
Cellular Medicine**

## **PI Seminar Series**

**Speaker:** Professor Andrew Mellor  
**Venue:** Dental Lecture Theatre F  
**Date:** Wednesday 3<sup>rd</sup> October 2018  
**Time:** 13:00 – 14:00

**Prof Andrew Mellor will present:**

***“Inflammation, Immunity & Pain in Disease & Immunotherapy”***

### **Biography/Abstract**

Chronic inflammation features in many clinical syndromes, including cancers, persistent infections, autoimmune syndromes and tissue transplantation. Inflammation stimulates immune responses but inflammation also suppresses immunity in some settings. How chronic inflammation impacts the balance between immunity and immune tolerance is poorly understood. Elucidating how inflammation contributes to disease progression, common comorbidities such as chronic pain, as well as therapy and toxicities is important, and has broad implications for developing better treatments and identifying better disease biomarkers. We focus on elevated tryptophan catabolism mediated by cells expressing the enzyme indoleamine 2,3 dioxygenase (IDO) during chronic inflammation. I will discuss our current research on the role of IDO in AI syndromes and cancer to illustrate the complex role of inflammation in disease development and treatment.

**Chair: Lei Huang**