

Seminar Announcement
- All Are Welcome -

Speaker : **Dr Andrew Tee**
Cardiff University, Cardiff, UK

Title : ***“Characterising novel cancer mechanisms with Mendelian genetic disorders, Tuberous Sclerosis Complex and Birt-Hogg-Dube tumour suppressors”***



Date : **12 February 2015 (Thursday)**
Time : **11:00am – 12:00pm**
Venue : **Creation Theatrette, Matrix Level 4**
Host : **Prof Maurice van Steensel**
(Tel: 64070191; e-mail: maurice.vansteensel@imb.a-star.edu.sg)

Abstract:

We can learn a lot about human disease from rare genetic disorders, such as Tuberous Sclerosis Complex (TSC) and Birt-Hogg-Dube (BHD). Inherited disorders that predispose patients to renal tumours and cancer. Although TSC and BHD proteins are known to function as tumour suppressors, it is not entirely clear how these proteins suppress tumour growth. I will discuss how basic research on TSC1/TSC2 can positively impact clinical trials in TSC patients, and importantly what we can learn from this. By studying these diseases, my research team has contributed to our understanding of how these proteins function to suppress cellular growth. This seminar will describe fundamental mechanisms of cancer progression involving nutrient and energy homeostasis, angiogenesis and metabolic reprogramming of renal cancer cells.

About the Speaker:

Andy was scientifically trained at Dundee and Harvard University to understand cellular mechanisms involved in cancer involving mammalian target of rapamycin (mTOR). Andy's research utilises genetic tumour-predisposition diseases to identify and characterise novel cellular mechanisms that drive cancer progression. Andy is currently a Senior Lecturer at Cardiff University, which was recently ranked 5th amongst the UK universities in the 2014 Research Exercise Framework (REF) based on quality and 2nd on impact.