Institute of Molecular and Cell Biology

A*STAR

SEMINAR ANNOUNCEMENT

We would like to invite you to attend this seminar hosted by Dr. Weimiao Yu:

Date: 11 May 2018, Friday

Time: 11:00AM – 12:00PM

Venue: Level 3, IMCB Seminar Room 3-46, Proteos, Biopolis

Speaker: Dr. Jeremy Parry, Consultant Pathologist, PathWest Laboratory Medicine, Fiona Stanley Hospital, Perth, Western Australia

Title: Digital Pathology – A Pathologist's Perspective (2018)

Developing technologically at a rate comparable to Molecular Genomics, and yet until recently remaining largely hidden, the digitization of pathology may well be the most disruptive technology that the practise of Pathology has confronted in the last century. Whereas Molecular Genomics has added a layer of complexity that lies largely beyond the realm of the practising Histopathologist, digital technology has the capacity to infiltrate and fundamentally change every step in the pathology workflow, from the transport and accession of tissue specimens, to how they are interpreted, shared, archived and mined for data. Geographic boundaries are set to largely disappear as investment in expensive bricks-and-mortar laboratory services requiring large in-house pathology staff is challenged, and possibly replaced, by modular services that emphasise digital imaging, Cloud-based image archiving and sharing, and fluid reporting models that seamlessly cross international boundaries, tap into new and competitive pricing forces, and increasingly incorporate machine-learned applications. Pathology services that fail to adapt to these changes run the risk of technological obsolescence, while simultaneously pricing themselves out of the reach of stretched government budgets. "Digital Pathology – A Pathologist's Perspective" addresses this topic from the point-of-view of the Histopathologist who continues to do what his or her predecessors have done for over a century; sit at a light microscope interpreting the analogue information in glass slide-mounted tissue specimens, content in the knowledge that nothing significant is likely to change within their working life. Digital Pathology is likely to represent that change – the question is how this change is managed for the benefit of patients, professionals and Governments.

Biography:

After obtaining a Bachelor Degree (Hons) in Biology and Biochemistry at Murdoch University in Perth (1981-85), I worked for two years in the area of tissue culture research at PIVET Medical Centre (Leederville, WA), a private medical service specialising in assisted reproductive technologies. A two year sojourn with my wife across Asia, Europe and Africa gave me the time and space to reassess my goals, and I returned to Perth in 1990 to study

medicine at the University of Western Australia, followed by five years of clinical work in Darwin, Perth, Canberra and South Africa. I completed my Fellowship in Anatomical Pathology in 2006 (in Melbourne, Victoria) and have since worked as a Consultant Pathologist for Eastern Health and PathWest Laboratory Medicine. My areas of sub-specialisation include Haematopathology, Laboratory Medicine (in particular, Immunohistochemistry and Molecular Pathology) and Digital Pathology/Informatics. Like many busy practising pathologists, I research when I can find time (>20 publications and posters) and attend several international conferences annually, which helps update my professional skills, and indulge my interest in exploring the world. I am currently Chief Principal Investigator on a collaborative project with the School of Engineering and Information Technology at Murdoch University, aiming to develop algorithms for analysis of lymph node pathology. To relax I like to swim, spend time with my family, and read.

ALL ARE WELCOME *(No registration required)*