Institute of Molecular and Cell Biology

A*STAR

SEMINAR ANNOUNCEMENT

We would like to invite you to attend this seminar hosted by Prof. Philip Ingham:

Date: 13 June 2018, Wednesday

Time: 11:00AM – 12:00PM

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

Speaker: Prof. Mohan K. Balasubramanian, Pro-Dean for Biomedicine, Warwick Medical School, University of Warwick, UK

Title: Reconstituting the Eukaryotic Cytokinetic Actomyosin Ring

We are interested in understanding molecular mechanisms regulating the physical division of once cell into two (cytokinesis). The division process involves the function of an actomyosin based contractile ring. Work from my group has led to the identification and characterisation of a large number of components of the cytokinetic actomyosin ring. We have used biochemistry, advanced imaging, and genetics to order ring positioning, assembly and contraction mechanisms. We are now using synthetic reconstitution experiments to uncover the design principles behind actomyosin ring positioning, assembly, and contraction. I will present our recent work in this direction.

Biography:

Mohan Balasubramanian graduated with a degree in Chemistry (Madras, India), a masters degree in Biotechnology (Baroda, India), and PhD in Microbiology (Saskatchewan, Canada). Following post-doctoral work in Vanderbilt University, he established his independent group in Singapore in 1997 in the Institute of Molecular Agrobiology and then in the Temasek Life Sciences Laboratory as well as in the Department of Biological Sciences (NUS). Since 2013 he has been at the University of Warwick, UK. He has held several administrative positions in Singapore and the UK and is presently the Pro-Dean (Research) in Warwick Medical School. He is the winner of the National Science Medal Singapore for his contributions to the understanding of cell division mechanisms. His current research is supported by the Wellcome Trust, Royal Society, and the European Research Council.

ALL ARE WELCOME *(No registration required)*