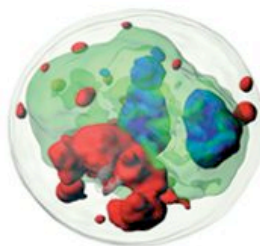


THE SCIENCE OF BIO-IMAGING FORUM 2009




University of
Western Sydney
Bringing knowledge to life

Join scientists to learn how we can explore the inner life of cells and understand molecular interactions in health, diseases and in response to climate change.

FREE EVENT
4th August

Bio-imaging reveals how molecules and genes interact in space and time and control processes responsible for life. Our ability to visualize such processes in living cells by imaging methods have revolutionised biological, medical and physical research. The invited international speakers - Prof. Enrico Gratton, head of Laboratory for Fluorescence Dynamics and Dr Michelle Digman, director of Optical Biology Core, University of California, use fluorescence to study cellular processes and develop new bio-imaging methods that lead to scientific advances world-wide.

The theme of fluorescence and bio-imaging technology will be further explored by scientists who will describe research into cellular processes and the effects of climate change stress on forests and the Great Barrier Reef. They will be joined by a world renowned artist, Lynette Wallworth, resident artist at the UWS Confocal Bio-Imaging Facility in 2009. Lynette will talk about her interactive art works using fluorescence imagery and planned immersive digital work, in collaboration with Dr Anya Salih with rich 3D graphics and high-definition video projections. The work will explore the effects of climate change on the reef, its fluorescence and the beauty and the fragility of our environment.



TUESDAY 4 AUGUST 2009 - UWS HAWKESBURY CAMPUS, Bld K7

09:30-09:45 Opening address - Public Forum.

09:45-10:25 Visualizing molecular interactions in live cells. Professor Enrico Gratton, Laboratory for Fluorescence Dynamics, University of California, Irvine.

10:25-10:50 Detection & analysis of protein aggregation in neurodegenerative diseases. Dr Michelle Digman, Laboratory Fluorescence Dynamics, Univ. California.

10:50-11:20 Morning tea-coffee

11:20-11:40 Forest climate change experiment and bio-Imaging of cellular responses. Professor David Tissue, Centre for Plants and Environment, UWS.

11:40-12:10 Coral colour proteins in biomedicine, reef biology and climate change. Dr Anya Salih, Confocal Bio-Imaging Facility, UWS.

12:10-12:35 Super-resolution fluorescence microscopy for cell signalling. A/Prof. Katerina Gaus, Centre for Vascular Research, UNSW.

12:35-13:00 Linking art & science: Light-immersive environments & fluorescent beacons. Lynette Wallworth, Muldti-Media Artist.

13:00-15:00 Lunch and Visit to the Confocal Bio-Imaging Facility, Building S8.

For information please contact Dr Anya Salih a.salih@uws.edu.au tel. 45701618

Please confirm your attendance by email to Christina.C.HARVEY@uws.edu.au

http://www.uws.edu.au/health_science/chs/facilities2/confocal_bio-imaging_facility_cbif

Location: UWS, Hawkesbury Campus, Bld K7. Travel via Londonderry Road, Richmond or train to Richmond Station. Taxi Shuttle will be available from Richmond train station.

