

EastBio Thematic Meeting 2: Interdisciplinary research in biomedicine

BfH & WCUB · Friday 10th February 2017 · University of Dundee

Venue: Sir Kenneth and Lady Noreen Murray Seminar Room (CTIR-284), Discovery Centre for Translational and Interdisciplinary Research (CTIR), School of Life Sciences, University of Dundee DD1 5EH

Hosts: Guillermo Serrano Nájera & Kate Mathers

10:00 – 10:30	Arrival and coffee
10:30 – 11:15	Dr Ulrich Zachariae Physics & Computational Biology <i>Ulrich works at the interface between biology, chemistry, computing and physics. His group develops dynamic simulations in order to study the molecular mechanisms of ion channels, membrane pores and protein-membrane interactions.</i>
11:15 – 12:00	Professor Nicola Stanley-Wall Molecular Microbiology <i>Nicola studies the genetic components that control biofilm formation by the Gram-positive bacterium <i>Bacillus subtilis</i>. She also leads an interdisciplinary team that combines microbiology, physics, maths and imaging to investigate the construction of the biofilm matrix and its components.</i>
12:00 – 13:00	Lunch
13:00 – 13:45	Dr Philip Murray Mathematics <i>Philip uses mathematical models to interpret experimental observations and make quantitative, testable predictions about real biological systems. His areas of research include developmental patterning, hair follicle growth patterns, DNA repair mechanisms, HIV virus transcriptional dynamics and single cell motion.</i>
13:45 – 14:30	Dr Mike Macdonald Physics & Medicine <i>Mike is the head of the Biophotonics Research Group, where one focus of his research is lightsheet imaging. In collaboration with biological scientists, he has developed high-speed scanned lightsheet microscopy to image chick embryos for developmental physiology studies and lightsheet tomography for imaging plant root growth.</i>
14:30 – 15:00	Coffee
15:00 – 16:00	Signal/Noise: Imaging/Drawing <i>This exhibition showcases drawings and animations by Manchester based artist and researcher Daksha Patel, including recent work based on medical and scientific data and imaging technologies.</i>

