



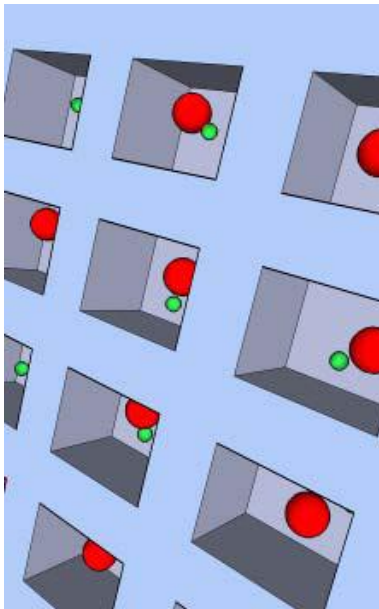
## Special Seminar

### Imaging Cellular Interactions

1. Microstructured surfaces for prolonged live cell imaging  
**Dr Daniel Day** (Centre for Micro-Photonics, Swinburne University)

2. Cell paddocks for microscopic analysis of immune cell fate determination

**Prof Sarah Russell** (Swinburne University; Peter MacCallum Cancer Centre)



**15 October 2009**

**3:30 – 4:30 pm**

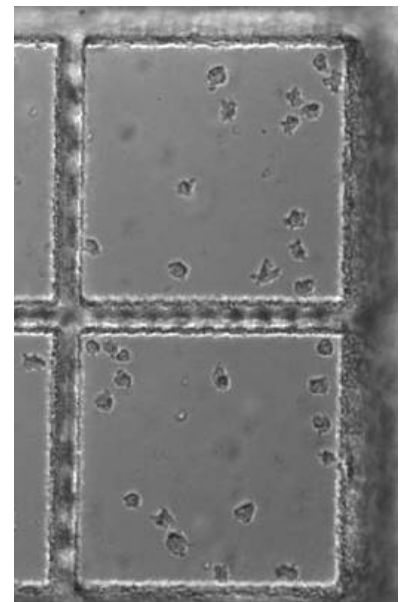
followed by refreshments

Room G19, Building 75

Clayton Campus

Monash University

**ALL WELCOME**



With new imaging technologies and fluorescent probes, live imaging of cells in vitro has revolutionized many aspects of cell biology. A key goal now is to develop systems to optimize in vitro imaging, which do not compromise the physiological relevance of the study. The seminar will describe a methodology that contains non-adherent cells within the field of view to enable prolonged live cell imaging. Microgrided surfaces are made from polydimethyl siloxane that can be incorporated in standard cell culture-ware for isolating and restricting the movement of sub-populations of cells. A contiguous supply of medium between neighboring microgrids facilitates the exchange of cytokines and growth factors. This allows culture over at least 6 days with no impact upon viability and proliferation. The microgrids have enabled imaging and tracking of lymphocyte division through multiple generations and of long-term interactions between T lymphocytes and dendritic cells.

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