

Monash e-Research Centre

Thursday, 23 September 2010

e-Research Exemplars and Discussion Forum / eCoffee

e-Research Challenges in 'Biochemistry and Molecular Biology - Protein Interaction and Cancer Research'

Presented by Assoc Prof Martin Lackmann (Head of the Protein Interaction and Cancer Research Laboratory, Department of Biochemistry and Molecular Biology)

Time: 10am-11am (coffee from 9.45am)

Location: Room 135, Bldg 26, Clayton Campus

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For more information visit: www.monash.edu/eresearch

You are invited to an informal discussion forum - open to all interested researchers and staff:

Dr. Martin. Lackmann heads the Protein Interaction and Cancer Research Laboratory at the Department of Biochemistry and Molecular Biology. With a longstanding interest in the biological concepts of cell migration and tissue patterning, his current basic and translational biomedical research programs are focussed on molecular and cellular mechanisms that are active during cancer invasion and metastasis. Researchers in Dr. Lackmann's lab use a broad range of experimental strategies, including, genetic engineering, protein-structure/function and - interaction analysis, together with **advanced biomedical imaging approaches**, to elucidate in tissue culture and animal models of haematopoietic and solid cancers the molecular mechanisms, which control tumour cell navigation and tumour tissue patterning and form the basis for the development of targeted anti-cancer therapeutics.

In addition to biomedical research, Dr. Lackmann has a strong interest in the advancement of high-resolution imaging approaches: Together with colleagues at MMI and MeRC he directs design and development of a **'virtual biomedical imaging platform'** to meet increasing demand for workflow-driven multi-modal, multi-dimensional imaging, image processing and data mining.

For his basic research programs, Dr. Lackmann attracted continued funding from the NH&MRC, Cancer Australia, ARC and the Human Frontiers Science Program. Dr. Lackmann also holds a series of international patents and licensing agreements with US-based Pharmaceutical partners.

e-Research Exemplars and Discussion Forum / eCoffee:

These monthly presentations bring together the e-Research support network at Monash University, along with all interested researchers and staff, to discuss the opportunities and challenges presented by the application of e-Research technologies and strategies for the particular research domain of the discussion. The presenter first introduces the audience to the topic / case study and then the session is opened up for questions. The monthly forum is co-hosted by the Monash e-Research Centre and VeRSI.