



The Faculty of IT and the Monash e-Research Centre  
are proud to present the following seminar - part of the  
High Definition interactive video links of  
MURPA Seminar Series 2009

# Integration of Machine Learning Approaches in Avian Flu Drug Discovery Workflows Presented by Dr Wilfred Li

Executive Director, National Biomedical Computation Resource,  
University of California San Diego

( Biography: <https://messagelab.monash.edu.au/MURPA/WilfredLi> )

"Biomedical, translational and clinical research, through increasingly complex computational modelling and simulation, generate enormous potential for personalised medicine and therapy, and also an insatiable demand for advanced cyberinfrastructure. New programming models and workflow management tools are required to allow researchers to move quickly from pilot studies to large-scale simulation experiments. Massive datacentres, aka and cloud computing have emerged to offer a very large petascale computing environment. Effective middleware that help existing scientific applications to gain integrated access to computation, data and visualisation resources are required. They must be highly reusable and yet customisable based upon the specific needs of a particular scientific community.....The 'Avian Flu Grid' (AFG) virtual organisation (VO) is dedicated to collaborative research on antiviral drug discovery for potentially pandemic influenza viruses."

**Date:** 23 April  
**Time:** 10am-11am  
**Location:** Seminar Room 135, Building 26,  
Clayton campus

## MURPA Seminar Series 2009

MURPA supports a unique summer mode placement in a leading research group overseas. It not only provides a research experience at the undergraduate level, but does that in an international context. Students are placed for a period of eight weeks, allowing them to integrate into the research groups as team members.

MURPA also involves an advanced seminar scheme, in which students can attend seminars given by world leading experts before they leave. The seminar scheme is novel, because it uses a cutting edge High Definition interactive video link to the University of California, making it feasible to attract some of the world's best researchers "virtually" to Monash. These seminars also allow students to "meet" potential UCSD mentors and get some information about potential projects.

<https://messagelab.monash.edu.au/MURPA/MURPA2009>

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