

SPECIAL SEMINAR ANNOUNCEMENT  
SCHOOL OF MATHEMATICS AND STATISTICS

presents:

Professor Nigel Burroughs  
Mathematics Institute and Warwick Systems Biology Department,  
University of Warwick, Coventry UK

Is visiting Australia and will deliver a seminar on

**TUESDAY 23<sup>RD</sup> September 2008, - 12:00 – 13:00hrs**

**Location: Q1-01**

Title

**Systems Biology: the challenge of extracting information from high dimensional data.**

**Abstract.**

Advances in biological methodology have given rise to an explosion in data, sequencing is now cheap, whole genome measurements are possible in both mRNA and proteins, and fluorescence reporters are now giving insight into complex spatial phenomena.

I will examine the challenges faced by mathematical and statistical modelling to extract biologically relevant information from such data, using examples from the analysis of microarrays to 3D scanning confocal microscope spatial data.

**Professor Nigel Burroughs**



**Research Interests:** Mathematical immunology, especially control and regulation of the immune system, graph theory and phylogenetics, signalling and gene regulation, statistical methods for gene network inference. Most of my work is a mix of modelling and data analysis