



## Special Seminars

Hosted by Monash Micro Imaging and Monash E-Research

### Professor Mark H. Ellisman

University of California, San Diego.

#### Multiscale Imaging of the Nervous System

Thurs 14 February, 12 -1pm

Venue: Lecture Theatre M3, Building 13A

..... covering multi-scale imaging activities and emerging technologies with capabilities to facilitate brain mapping at a resolution of one nm to 10's of  $\mu\text{m}$ , a dimensional range that encompasses macromolecular complexes, organelles, and multi-component structures.

#### Integrating Neuroscience Knowledge: Brain Research in the Digital Age

Fri 15 February, 11 -12am

Venue: Lecture Theatre M3, Building 13A

..... a consolidated strategy for integrating neuroscience data has been to provide a multi-scale structural or spatial scaffold on which existing and accruing elements of neuroscience knowledge can be located and relationships explored from any network-linked computer.

Prof. Mark H. Ellisman is the Founding Director of National Centre for Microscopy and Imaging Research (NCMIR) established in 1988 to achieve greater understanding of the structure and function of the nervous system by developing 3D light and electron microscopy methods. Dr. Ellisman is a founding fellow of the American Institute of Medical and Biological Engineering, and the founding director of the UCSD Center for Research in Biological Systems ([CRBS](#)). He has received numerous awards including the Jacob Javits Neuroscience Investigatory Award from the National Institutes of Health ([NIH](#)) and the Creativity Award from the National Science Foundation ([NSF](#)). He is an interdisciplinary coordinator for the National Partnership for Advanced Computing Infrastructure (NPACI) and leads NPACI's Neuroscience thrust, which involves integration of brain research and advanced computing and communications technologies. In 2001, he founded the Biomedical Informatics Research Network (BIRN), an NIH program that provides a multiscale imaging infrastructure linking major neuroimaging centers around the country. Dr. Ellisman is also on the National Advisory Council of the NIH National Center for Research Resources (NCR) and the Physics Division Review Committee of the Department of Energy, Los Alamos National Laboratory.

