Bosch Advanced Microscopy Facility

Seminar:

New approaches in 2-PHOTON MICROSCOPY

3-4 pm, Thursday September 3rd

N248 Lecture Theatre, Anderson Stuart Building, F13

Afternoon tea provided afterwards in N248

Presentation by Dr. Heinrich Spiecker

Co-founder, CEO and Technical Head of LaVision BioTec GmbH

The excellent sectioning capability of single beam multiphoton fluorescence microscopes even in optically dense and thick samples is well known. However, bleaching at high excitation rates and limitations of the beam scanning devices prevent real-time imaging. These limitations can be overcome by multiplexing the excitation process. The present work demonstrates a novel multibeam multiphoton microscope (TriMScope) that offers outstanding scanning speed and sectioning capability. Synchronous scanning with typically 64 foci and a special focal arrangement allow real-time observation of almost any image plane within the sample. Advanced configurations and applications, fast new scanning techniques and analysis tools are presented for in-vivo applications.

All Welcome

If attending, please notify Dr Louise Cole at louise.cole@bosch.org.au for catering purposes

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