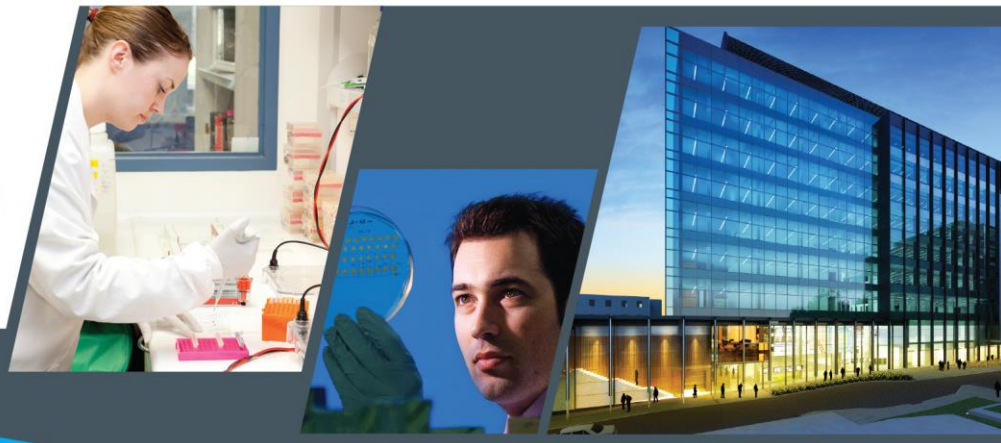
HARRY PERKINS INSTITUTE
OF MEDICAL RESEARCH



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PERKINS
Seminar Series
Special Perkins Seminar

FRIDAY 2 DECEMBER

Dr Irina Kabakova

Physics Department, Imperial College London

"Brillouin imaging for micromechanical characterisation of biomaterials"

Dr Irina Kabakova is a Junior Research Fellow working at the Physics Department, Imperial College London. Irina obtained her PhD from the University of Sydney for her work in nonlinear all-optical signal processing. Then she joined Nonlinear Phononics group at Sydney University and worked on the development of novel light sources using the process of stimulated Brillouin scattering. Later she worked at AMOLF Institute in Amsterdam on a project related to near-field imaging of plasmonic nanostructures. Her current research interests are focused on the development of endoscopic Brillouin imaging technique and its applications to stiffness measurements of tissues and biomaterial.

"Brillouin imaging has recently emerged as a powerful technique for characterisation of mechanical properties in tissues, cells and biomaterial. It exploits inelastic scattering of light by acoustic vibrations and maps the tissue stiffness point by point with micron resolution. In this presentation I will introduce the idea of Brillouin endoscopy that is a route for in vivo and in situ micromechanical characterisation of biomaterial. I also discuss applications of Brillouin imaging to biophysics, bioengineering and material science applications."

12:00noon till 1:00pm

For more information please contact Dr Brendan Kennedy

E: brendan.kennedy@uwa.edu.au

McCUSKER AUDITORIUM, HARRY PERKINS INSTITUTE OF MEDICAL RESEARCH, NORTH CAMPUS


Your Guide to the
Perkins
HARRY PERKINS INSTITUTE
OF MEDICAL RESEARCH
Aberdare Rd
To Perth
Winthrop Ave
Kings Park
Hospital Ave
Gairdner Dr
Campsie St
Kingston St
Verdun St
Watling Walk
Caladenia Cres
Hampden Rd
Monash Ave
CC
X
Emergency Helipad
Visitor Car Park 1
Visitor and Staff Multi Deck Car Park
(Entry off Winthrop Ave Only)
To Harry Perkins
Main Entrance
E Street
G Street
Main Entrance & Admissions
EMERGENCY
Multi Deck Car Park Phase 2
Under Construction
Child Care
Lions Eye Inst
HARRY PERKINS INSTITUTE
Staff Car Park 4
PathWest
Visitor Car Park 3A
Staff Car Park 6
Car Park 7B
Visitor Car Park 7 8.00am - 4.00pm
Staff Car Park 7A
Western Power Sub Station
Staff Car Park 3
UWA Car Park
Under Construction (New Children's Hospital)
Hollywood Private Hospital
To Stirling Hwy
N
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