THE NATIONAL BIOPHOTONICS & IMAGING PLATFORM IRELAND

NBIPI

SFI RMS

Programme Overview including Session Topics

18th October	19th October	20th October
Registration & Conference Opening	Fluorescence Microscopy	Image Processing and Data Management
European Strategy - Biophotonics and Imaging	Tissue Optics and Laser Tissue Interactions	Biophotonics - Diagnostics and Therapy
Bio-medical Spectroscopy	Bio-Imaging	Advanced Microscopy
Poster Session	Poster Session	Presentation of Awards & Conference Close

Sessions on research topics will feature invited speakers and a selection of oral presentations chosen from abstracts submitted.

Invited Speakers

Speaker Details	Preliminary Title	Session
Antje Keppler *Project Manager for Euro-BioImaging* *EMBL, Heidelberg, Germany*	Euro-BioImaging	European Strategy – Biophotonics and Imaging
Paul French *Photonics Group, Imperial College London, United Kingdom*	Multidimensional fluorescence lifetime imaging and metrology: high content analysis for the understanding and diagnosis of disease	Fluorescence Microscopy
Patrice Mollard *CNRS - UMR 5203 - Institut de Génomique Fonctionnelle (IGF), Montpellier, France*	Cellular in vivo imaging with long range objectives	Fluorescence Microscopy
Alexander Demchenko *Palladin Institute of Biochemistry, Ukraine*	Fluorescence cellular sensing and imaging with novel color changing fluorescence dyes	Fluorescence Microscopy
Valerie V. Tuchin *Saratov State University, Institute of Precise Mechanics and Control of RAS, Saratov, Russia*	Optical clearing of tissues and blood: problems and perspectives	Tissue Optics and Laser Tissue Interactions
Alexander Savitsky *Bach Institute of Biochemistry, Russian Academy of Sciences*		Biomedical Spectroscopy

Shane O'Mara *Institute of Neuroscience* *Trinity College Dublin* *Dublin, Ireland*		Bio-Imaging
Nikolaus Plesnila *Chair of Neurodegeneration* *Royal College of Surgeons in Ireland*	In vivo imaging of the injured brain	Bio-Imaging
Eleanor Coffey *Neuronal Signalling Laboratory,* *Turku Centre for Biotechnology,* *Turku, Finland*	Fluorescence imaging combined with proteomics reveal novel regulators of brain development	Bio-Imaging/ Fluorescence Microscopy
Noel McHale *Smooth Muscle Research Centre,* *Dundalk Institute of Technology,* *Ireland*	Calcium Imaging at High Frame Rates in Isolated Smooth Muscle Cells	Bio-Imaging
Paul Whelan *Centre for Image Processing &* *Analysis, Dublin City University*	Computer Aided Detection for Biomedical Applications	Image Processing and Data Management
Jochen Prehn *Chair of Neurodegeneration* *Royal College of Surgeons in Ireland*	Detection of Mammalian Gene Expression at the Single Cell Level	Biophotonics – Diagnostics and Therapy
Enzo Terreno *Department of Chemistry and* *Molecular Imaging Center* *University of Torino, Italy*	Topic: Imaging Reporter Design – MRI Applications - *Title to be finalised*	Biophotonics – Diagnostics and Therapy
Tony Wilson *Department of Engineering Science,* *University of Oxford, United* *Kingdom*	Optical sectioning and fast focussing in light microscopy	Advanced Microscopy
Stefan Jakobs *Mitochondrial Structure and* *Dynamics group, Max Planck* *Institute, Goettingen, Germany*	Focussing on mitochondria with STED microscopy	Advanced Microscopy
Cinzia Giannini *Istituto di Cristallografia, Consiglio* *Nazionale delle Ricerche, Italy*	Coherent Diffractive Imaging - from nanometric down to picometric spatial resolution	Advanced Microscopy
Marshall Montrose *Dept of Molecular & Cellular* *Physiology, University of Cincinnati,* *United States*	Interventional imaging of the stomach defenses against acid	Advanced Microscopy