

SUMMER SCHOOL "PHOTONICS MEETS BIOLOGY"

PROGRAM

	Monday	Tuesday	Wednesday	Thursday	Friday	
	18-Sep	19-Sep	20-Sep	21-Sep	22-Sep	
09:00-09:30		Registration & Presentation	<i>Boris Chichkov</i>	<i>Wolfgang Drexler</i>	<i>Paul French</i>	09:00-09:30
09:30-10:00		<i>Peter Delfyett</i>				09:30-10:00
10:00-10:30		PMB I	PMB III	BMP II	PMB V	10:00-10:30
10:30-11:00		V. Pasiskevicius	Peter Anderson	Valery Tuchin	Daniele Faccio	10:30-11:00
11:00-11:30		Bojan Resan	Igor Meglinski	Corette Wierenga	Miklos Veres	11:00-11:30
11:30-12:00		Coffee Break	Coffee Break	Coffee Break	Lina Persechini Nat. Comm.	11:30-12:00
12:00-12:30		Coffee Break	Coffee Break	Coffee Break	Coffee Break	12:00-12:30
12:30-13:00		PMB II	PMB IV	BMP III	BMP IV	12:30-13:00
13:00-13:30		Grigorii Sokolovskii	Rinat Esenaliev	Andrey Y. Abramov	Sergei Sokolovski	13:00-13:30
13:30-15:00		Richard Hogg	V. Kalchhenko	Marco Dal Maschio	Viacheslav Artyushenk	13:30-15:00
15:00-15:30		Sponsors	Sponsors	Sonia Gandhi	Wrap up and conclusions	15:00-15:30
15:30-16:00		Lunch at 'El Seminari'	Lunch at 'El Seminari'	Lunch at 'El Seminari'	Lunch at 'El Seminari'	15:30-16:00
16:00-16:30		Students' talks ST I, II		Scientific writing and Discussion (Peter Andersen)		16:00-16:30
16:30-17:00		ST III, IV		Coffee Break		16:30-17:00
17:00-17:30		Coffee Break		Coffee Break		17:00-17:30
17:30-18:30		BMPI	Visit of Cavas Freixenet	Experimental analysis of data in neurosciences		17:30-18:30
18:30-19:00		Rheinallt Parri				18:30-19:00
19:00-19:30		Stefan Wieser				19:00-19:30
19:30-20:00		Corinne Lorenzo		Tarraco Guided Tour		19:30-20:00
20:00-21:00	Welcome at 'El Seminari'	Posters session				20:00-21:00
21:00-22:00	Registration & Refreshment	Gala dinner at 'El Seminari'	Free evening	Free evening		21:00-22:00

PMB Photonics meets Biology

BMP Biology meets Photonics

Key Note Speakers

Peter Delfyett	CREOL, Florida, USA	Ultrafast InP Device Technologies for Ultrafast Signal Processing using Optical Frequency Combs
Boris Chichkov	LZH, Hannover, Germany	Laser Printing of Biomaterials, Nanoparticles, and Living Cells
Wolfgang Drexler	MedUni Wien, Vienna, Austria	Optical Coherence Tomography: Technology and Applications
Paul French	ICL, London, UK	Multidimensional Fluorescence lifetime imaging and spectroscopy across the scales

Lecturers

Andrey Y. Abramov	UCL Institute of Neurology, UK	Unraveling of mitochondrial physiology using live cell imaging and flash photolysis.
Peter Anderson	DTU, Denmark	Frequency-converted Diodes for Biophotonics
Viacheslav Artyushenko	Art Photonics GmbH, Germany	Fiber photonics for theragnostic applications in minimal invasive medicine.
Rinat Esenaliev	University of Texas, USA	Optoacoustic Diagnostic Platform: Principles, Instrumentation, and Applications.
Daniele Faccio	Heriot-Watt University, UK	Computational diffuse optical imaging with a single-photon time-of-flight camera.
Sonia Gandhi	UCL Institute of Neurology, UK	Visualising protein aggregation in Neurodegenerative diseases
Richard Hogg	Glasgow University, UK	Gallium Nitride Superluminescent Light Emitting Diodes for Optical Coherence Tomography Applications
V. Kalchhenko	Weizmann Institute of Science, Israel	A simple approach for non-invasive transcranial optical vascular imaging (nTOVI)
Corinne Lorenzo	ITAV, France	Spatio-temporal dynamic study of DNA damage foci appearance within tissue mimics: a study with light sheet microscopy.
Marco Dal Maschio	Max Planck Institute for Neurobiology, Germany	Lighting brain circuits: investigating neuronal mechanism by means of high-resolution 3D photostimulation and volumetric functional imaging
Igor Meglinski	Oulu University, Finland	Dynamic light scattering for blood flow diagnosis
Rheinallt Parri	Aston University, UK	Shining a light on astrocyte roles in brain function
Valdas Pasiskevicius	KTH, Sweden	Nonlinear optical methods for biophotonics applications
Lina Persechini	Associate Editor & Team Manager	Nature Communications
Bojan Resan	FHNW, Switzerland	Multiphoton imaging with blue-diode-pumped modelocked Ti:Sapphire lasers
Sergei Sokolovski	Aston University, UK	Probing Organism(s) with Light: Diagnostic Applications of advanced laser systems
Grigorii Sokolovskii	Ioffe Institute, Russia	Semiconductor laser beam manipulation and biomedical applications
Jordi Soriano	U. Barcelona, Spain	Calcium imaging in neuronal cultures: visualizing collective phenomena in a dish
Zoltán Szadai	Institute of Experimental Medicine, Hungary	3D Functional imaging of VIP interneuron activity in behaving mice
Valery Tuchin	Saratov University, Russia	Tissue optical clearing as a tool for enhanced imaging and spectroscopy
Miklos Veres	Wigner Research Institute, Hungary	Sensitive Raman techniques for biological applications
Corette Wierenga	Utrecht University, Netherlands	Balancing the brain: inhibitory axons as dynamic, activity-dependent structures
Stefan Wieser	ICFO, Spain	Mechano-chemical Feedback Loops for Cell Polarization and Migration