

Timetable for the "Biophotonics-Riga 2024" Symposium, Sept. 10-11, 2024

Tuesday 10 September			Room Beta 1
Time		Speaker	Title
08:45	Plenary	S.Andersson-Engels, IE	Upconverting Nanoparticles as Novel Labels for Immunohistochemistry
	Session 1	Session Chair J.Spigulis	
09:30	Invited	D.Fixler, IL	New directions in Correlative Multimodal Imaging (CMI) – tattoos removal as case study
10:00	Invited	R.Rotomskis, LT	Proteins Stabilized Fluorescent Gold Nanoclusters for Multimodal Cancer Theragnostics
10:30	Coffee Break		
11:00	Invited	B.Majaron, SI	In Vivo Assessment of the Influence of Aging on Human Skin Using an Innovative Bimodal Approach
11:30	Invited	S.Royo, SP	Laser Sensing Through Scattering Media at UPC-CD6: from Biophotonics to Polarized Lidar
12:00	Invited	I.Meglinski, UK	Beyond Conventional Diagnostics: Revealing Blood Microstructures through the Harnessing Optical Anisotropy with Polarized Light
12:30	Group Photo		
13:00	Lunch Break		
	Session 2	Session Chair D.Fixler	
14:00	Oral	J.Spigulis, LV	Recent Biophotonics Projects of the Riga Group
14:15	Oral	B.Cugmas, LV	Automated Classification of Pollens Relevant to Veterinary Medicine
14:30	Oral	U.Rubins, LV	Neural Network-based Feature Prediction Using Remote Photoplethysmogram Waveform Analysis
14:45	Oral	E.V.Plorina, LV	In Vivo Autofluorescence Photobleaching Imaging of Non-melanoma Skin Cancers
15:00	Oral	M.Dabbicco, IT	Mid Infrared Label Free Interferometric Detectorless Imaging Photonic Circuit
15:30	Coffee Break		
	Session 3	Session Chair B.Cugmas	
16:00	Oral	M.Huotari, FI	Correlation Analysis of Heart Rate Variability between PPG and ECG Compared with a Smart Photonic Device in Supine, Sitting, and Standing Postures
16:15	Oral	P.Naglič, SI	Monte Carlo Simulations of Light Propagation in Turbid Media and Estimation of Optical Properties by Deep-learning Aided Regression
16:30	Oral	S.Gumus, TR	Theoretical Analysis of Magnetic Levitation Technique and In Vivo Validation on Oral Cancer Diagnosis
16:45	Oral	M.Amouroux, FR	Reference Values of Skin Oxygenation Saturation Using Hyperspectral Imaging: a Study on Healthy Volunteers and Optical Phantoms

17:00	Oral	D.Indjin, UK	Terahertz Quantum Cascade Laser Imaging of Human Skin Pathologies: Towards Early Detection of Skin Cancer Using Laser Feedback Interferometry
17:30	Bus to the Poster Venue		
18:00 – 19:30	Poster Session		Science Building, University of Latvia, Jelgavas street 3
ID: 942	Poster	G. Rupsyte, LT	Diagnosis of Neoplasms in Veterinary Medicine Samples Using Artificial Intelligence
976	Poster	D.Fixler, IL	Introduction About Understanding Interaction Light – Biological Surfaces: Possibility for New Electronic Materials and Devices (PhoBioS)
988	Poster	G.Tamoliunaite, LT	Spectral and Spatial Characteristics of Tpps ₄ Aggregates
1009	Poster	A.Ghelani, IN	Multifunctional Fluorescence Carbon Nanoparticles Developed from Microbiological Waste for Imaging Cancer Cells, Bacteria, and DNA, Adjuvants for Viruses and Antibiotics, and Metal Sensors
1059	Poster	S.Singh, IN	An In-based Metal-organic Framework/Perovskite QD Composite for the Sensitive Optical Detection of Chloramphenicol Antibiotics
1065	Poster	R.Ruska, LV	Nanoparticles: Tiny Titans to Tackle Troublesome Tissues
1100	Poster	A.Muravec, SI	Investigation of Lensless On-chip Microscopy for High-Fidelity Hologram Reconstruction and Visualization of Pollen Samples
1213	Poster	S.Talanovaite, LT	Spectral and Spatial Characteristics of TPPS ₃ and TPPS ₄ Aggregates
1239	Poster	Z.Marcinkevics, LV	Impact of Bilateral Thigh Occlusion on the Remote Photoplethysmography Signal Recorded from the Palm
Wednesday 11 September		Room Beta 1	
	Session 4	Session Chair B.Majaron	
08:30	Invited	W.Blondel, FR	Multimodal Optical Spectroscopy and Machine Learning For Human Skin Cancer In Vivo Diagnosis
09:00	Invited	G.Salerud, SE	Snapshot Hyperspectral Imaging and Artificial Neural Networks Reveals Microcirculatory Blood Oxygen Saturation
09:30	Invited	T.Novikova, FR	What Could We Learn about Biological Tissue by Probing It with Polarized Light
10:00	Invited	B.Roth, DE	Multimodal Spectroscopic and Imaging Methodology for Skin Diagnostics
10:30	Coffee Break		
14:00 – 16:30	Excursion: 1. Riga Technical University 2. Institute of Electronics and Computer Science 3. Institute of Solid State Physics		
20:00 – 22:00	Gala Dinner		University of Latvia, Botanic Garden