

COST WG Meeting “Optical Microscopy Techniques Used for Medical and Biological Imaging”

Date: 10-11 April 2019

Venue: Polytechnic University of Bucharest, Romania

Day 1

9.00-9.30	Registration	
9.30-9.45	Welcome note	
9-45-10.30	Presentation of the Host Institution and Host Group: Facilities and Research Interests	Prof. George Stanciu
10:30-10.50	About 15214 COST Action	Prof. Pavel Hozak
10.50-11,20	Multimodality in laser scanning microscopy	Prof. George Stanciu
11.20-11.30	Classification of collagen structure in tissue sections based on polarization resolved second harmonic generation images	Dr. Radu Hristu
11.30-11.50	Coffee Break	
11.50-12.10	Local dielectric function investigated by Scanning near field optical microscopy	Dr. Denis Tranca
12.10- 12.30	Classification of multiphoton microscopy images of human tissues with machine learning	Dr. Stefan Stanciu
12.30-12.50	Nuclear lipocomplexes in gene expression	Prof. Pavel Hozak
12.50-13.10	Super-resolution microscopy in blood-brain barrier investigation	Prof. Mihaela Gherghiceanu
13.10-14.30	Lunch	
15.00-17.00	Round table discussion: Future of the workgroup. Topics to be discussed: Motivations, obstacles, societal applications, lessons learned, next steps to be taken,	Moderator Prof. Pavel Hozak

	AOB, funding opportunities for supporting research and other activities relevant for this workgroup.	
17:00-17.20	Coffee Break	
17:20-18.40	Visit at CMMIP-UPB laboratories Practical module: optical nanoscopy based on far field and near field	
20:30-22.30	Dinner	

Day 2

9.00-9.20	Advances in nanoscopy: Linear localization based nanoscopy for bio-imaging, silicon-STED nanoscopy for chips failure analysis and integrated dual NSOM/AFM tip	Prof. Zeev Zalevski
9.20-9.40	OTG based mobile endoscopy	Prof. Fu-Jen Kao
9.40 -10.00	Nanoscale analytics using s-SNOM technology	Dr. Adrian Cernescu
10-10.20	To be decided	Dr. Manolis Mavroidis
10.20-10.40	To be decided	Prof. Turs Selga
10.40-11:20	Coffee Break	
11:20-13:20	Open discussion on funding opportunities. All participants are encouraged to try to identify before the meeting local or EU relevant funding opportunities.	
13:30-14:30	Lunch	