

International Biophysics Workshop
Nanoscale Materials and Biological Physics
 March 20-21, 2023

"20 March"	Session	Time (PT)	Speaker	Title
		10:00-10:30	Introductory Remarks	with "Dean SBASSE (Sabieh Anwar), HoD Physics Department (Adam Zaman)"
	1-Electromagnetic Nanoprobes	10:30-11:00	Shahid Khan (C)	
		11:00-11:35	Dilawar Anjum	Microscopy and spectroscopy with electrons
		11:35-11:45	Break	
		11:45-12:20	Ata-ul-Haq	Nuclear magnetic resonance spectroscopy at the nanoscale
		12:20-12:55	Nabeel Aslam	Nanoscale nuclear magnetic resonance with NV centers in diamond
		12:55-13:00	Q&A	
		13:00-14:30	LUNCH	
	2- Microfabrication	14:30-15:00	Ammar A. Khan (C)	
		15:00-15:35	Waqar Ahmad	Fabrication of SERS platforms with high concentration of hotspots for ultra-sensitive trace detection
		15:35-15:45	Break	
		15:45-16:20	Nauman Butt	Microfluidic-based cell counting for disease detection
		16:20-16:55	Nasir Ahmad	Magnetic Polymer Colloids and Thin Films for Theranostic Applications
		16:55-17:00	Q&A	
		17:00-18:00	Keynote Justin Molloy	Single Molecule Biophysics
"21 March"	Session	Time	Speaker	Title
	3-Nanoparticles	11:00-11:30	Basit Yameen (C)	
		11:30-12:05	Evrin Umut	Magnetic nanoparticles as MRI - Hyperthermia and targeted drug delivery
		12:05-12:40	Nurcan Dogan	Magnetic particle Imaging: a new insight to cellular and molecular imaging
		12:40-12:50	Break	
		12:50-13:25	Shah Rukh Abbas	Polymeric materials for contrast-enhanced ultrasound (CEUS) Imaging.
		13:25-13:30	Q&A	
		13:30-15:00	LUNCH	
	4. Neurophysiology	15:00-15:30	Farzada Farkhooi (C)	
		15:30-16:05	Lukas Anneser	There are other fish in the sea - social density perception in zebrafish
		16:05-16:15	Break	
		16:15-16:50	Antonio Garcia	Using two-photon imaging to study neuronal adaptation in mouse cortex
		16:50-17:00	Q&A	
		17:00-17:50	Feature Alex Reyes	Synaptic and circuit mechanisms for signal propagation in multilayer neural networks
		17:50-18:00	Concluding Remarks	
PT = Pakistan Time				