

International Biophysics Workshops

2. Macromolecular Structure and Dynamics

Organized by Lahore University of Management Sciences, Lahore Pakistan

24-25th March, 2022 (Virtual event: Zoom)

START	END	SPEAKER	TITLE	COMMENTS	INSTITUTION
Thursday 24th March					
Protein Crystallography					
8:45	9:00 AM	Shahid Khan*	Welcome Message		MBC@LBNL
9:00	10:00	Jay Nix	Remote Data Collection, Training and Research Highlights - ALS MBC Beamline	FEATURED Speaker	MBC@LBNL
10:00	10:30	Shafqat Rasool	Activation of PINK1 on mitochondrial translocase complex		McGill
10:30	11:00	Sheikh Muhammad Arif	Structure-guided fragment-based drug discovery for cystic fibrosis		Cambridge
BREAK					
11:15	11:45	Moazur Rahman	Structural and functional studies of membrane proteins		Punjab
11:45	12:15	Javed Akhtar	SESAME		PINSTECH
12:15	13:15	Round Table 1 (Muhammad Imran*)	Biorganic and Protein Crystallography in Pakistan	DISCUSSION	FC College
Dynamics-1 NMR & XFMS					
14:00	14:45	Shahzad-ul-Hussan*	Overview & Talk (NMR guided Protein Engineering)		LUMS
14:45	15:45	Geerten Vuister / Vicky Higman	Analysing NMR data with CcpNmr Analysis	FEATURED Speaker	Leicester
15:45	16:00		BREAK		
16:00	16:30	Arooj Shafiq	Calmodulin binding to Ras family protein Ra1A		Salim Habib
16:30	17:00	Shahid Khan	Aromatic residue switches in phosphoprotein signaling		MBC@LBNL
Friday 25th March					
Dynamics-2 XRD & MD					
9:00	9:45	Ata Ulhaq*	Overview & Talk (Polarization-resolved Raman for structural characterization)		LUMS, Lahore
9:45	10:15	Maqsood Ahmad	Using molecular electrostatic properties from high resolution X-rays crystallography		Islamia - Bahawalpur
10:15	10:30		BREAK		
10:30	11:00	Hammad Naveed	Efficient computational approaches for Enzyme function prediction		NUCES-FAST Lahore
11:00	11:30	Ishrat Jabeen	Molecular Dynamics Simulations Protocol for the Design of Antiepileptic Drugs		NUST, Islamabad
11:30	13:00	Round Table 2 (Ata Ulhaq*)	XRD & MD	DISCUSSION	LUMS, Lahore
Cryo-EM					
14:00	14:45	Humayun Sharif*	Overview & Talk (DPP9 sequesters NLRP1 & CARD8 to repress inflammasome activation)		Harvard
14:45	15:30	Tanweer Hussain	Conformational changes in eukaryotic initiation factor 3 complex		Indian Institute of Science
15:30	16:00	Anas Khawaja	Mechanism of mitoribosomal small subunit biogenesis and preinitiation		Karolinska, Stockholm
16:00	17:00	Jose Carazo	CryoEM - Its amazing capability to follow macromolecular structural changes	KEYNOTE	Spanish National Center for Biotechnology, Madrid
17:00	18:00	Round Table 3 (Organizing Committee*)	Wrap Up	DISCUSSION	

* All timings are Pakistan Standard Time (GMT + 5; CET+4)