

# 22<sup>nd</sup> IBCAST 2025 : Biosciences (BS)

(19 –21 August2025)

Technical Program (Conducted)

Venue: RAMADA  
PLAZA Hotel Near  
Air Port, Karachi

Updated on:  
August22, 2025

Day 1: August 19, 2025

	9:00 - 09:45	Registration	
Opening Message	09:45 - 10:00	Welcome address by Program Coordinator	<b>Prof. Dr. Saifullah Khan</b> <i>Centre of Excellence in Science &amp; Applied Technology (CESAT), Islamabad, Pakistan</i>
Guest Talk	10:00- 10:45	Talk by Chief Guest	<b>Prof. Dr. Saeed Quraishy</b> <i>Prof Emeritus Dow Uni of Healyh Sciences Karachi</i>
	10:45-11:15	<b>Tea Break</b>	
Scientific Workshop	11:15-1:00	Scientific Workshop - PCR & BEYOND: A Practical Guide to Primer Design, Real Time PCR and Sequence Analysis	<b>Dr. Muhammad Rashid</b> <i>CESAT, Islamabad, Pakistan</i>
	01:00-2:00	<b>Lunch Break</b>	
Scientific Workshop	2:00-3:20	Scientific Workshop - PCR & BEYOND: A Practical Guide to Primer Design, Real Time PCR and Sequence Analysis	<b>Dr. Faiza Jamil</b> <i>CESAT, Islamabad, Pakistan</i>
<b>Chair: Prof. Dr. Aqeel Ahmed, Salim Habib University</b>			
Invited Talk	3:20-4:00	Pre-clinical challenges in the development of bio-therapeutics	<b>Dr. Syed Raza Ul Haq</b> <i>AstraZeneca, Sweden</i>
	4:00-4:20	<b>Tea Break</b>	
Invited Talk	4:20 - 5:00	Peaceful use of Nuclear Technology in Agriculture	<b>Prof. Dr. Mehboob Sial</b> <i>Nuclear Institute of Agriculture (NIA), Tandojam, Pakistan</i>

NS=No Show  
(BS-69, BS-358)

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Day 2: August 20, 2025

<b>Chair: Prof. Dr. Saif ur Rehman, DRAP Pakistan</b>			
<b>Invited Talks</b>	<b>9:30–10:10</b>	Intermittent Fasting with Calorie Restriction enhances the efficacy of Medicinal Plants in a Diabetic Mouse Model	<b>Prof. Dr. Aqeel Ahmed</b> <i>Sindh Institute of Animal Health (SIAH), Karachi, Pakistan</i>
	<b>10:10–11:00</b>	Oxidative, Microbial and Enzymatic Methods for the Removal of Microplastic Pollution	<b>Prof. Dr. Guleda Engin</b> <i>Yildiz Technical University, Istanbul, Turkey</i>
	<b>11:00-11:20</b>	<b>Tea Break</b>	
<b>Chair: Prof. Dr. Guleda Engin, Turkey</b>			
<b>Invited Talk</b>	<b>11:20 – 1200</b>	Bionic Structure design and Precision Biofabricating for Artificial Scaffolds	<b>Prof. Dr. Wang Yanen</b> <i>Northwestern Polytechnical University, China</i>
<b>Contributory Talks</b>	<b>12:00-01:00</b>	<b>BS-56:</b> Effect of Cochlear Implantation on Vestibular Function: An Intertwined Phenomena	<b>Dr. Kinza Salim</b> <i>University College Cork, Ireland</i>
		<b>BS-410:</b> Design of Density-Based Diammonium Phosphate (DAP) Adulteration Detection	<b>Mr. Amir Shahzad</b> <i>Air University Islamabad, Pakistan</i>
		<b>BS-86:</b> A-Parasight: AI-Powered Vision for Schistosomiasis Eggs Identification in Histopathological Images	<b>Ms. Aqsa Abu Bakar</b> <i>National Centre for Physics (NCP), Islamabad Pakistan</i>
	<b>01:00-2:00</b>	<b>Lunch Break</b>	
<b>Chair: Prof. Dr. Wang Yanen Northwestern Polytechnical University, China</b>			
<b>Invited Talks</b>	<b>2:00-2:40</b>	Development of Recombinant Viral & Bacterial Vaccines	<b>Prof Dr. Moazur Rahman</b> <i>Centre of Excellence in Molecular Biology (CEMB), Lahore Pakistan</i>
	<b>2:40-3:20</b>	Biologicals from Concepts to Reality- The Regulatory Landscape	<b>Dr. Saif ur Rehman</b> <i>Drug Regulatory Authority of Pakistan (DRAP), Pakistan</i>

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<b>Contributory Talks</b>	<b>3:20-4:00</b>	BS-352: Characterization of Lipase Enzyme Obtained from three different species of Bacillus	<b>Ms. Aliya Batool</b> <i>National University of Sciences &amp; Technology (NUST) Islamabad, Pakistan</i>
		BS-211: Cost-effective Blynk Connected ESP-Based Wild Guard Nexus system	<b>Ms. Fiza Fatima</b> <i>Air University Islamabad Pakistan</i>
		BS-372: Smart Gas Sensing Networks for Real-Time Environmental Surveillance	<b>Ms. Ilsa Faisal</b> <i>Air University Islamabad, Pakistan</i>
	<b>4:00 - 4:20</b>	<b>Tea Break</b>	
<b>Contributory Talks</b>	<b>4:20-4:40</b>	BS-389: In vivo Chemotherapeutic Potential of Pegylated Silver Methotrexate Nanoparticles in Squamous Cell Skin Papilloma Model	<b>Ms. Ayesha Naeem</b> <i>NUST, Islamabad</i>
	<b>4:40-5:00</b>	BS-373: Schisandrin A Exerts Antibacterial Activity against Enterococcus faecalis via Membrane Disruption and DNA Interaction	<b>Ms. Nosheen Fatima</b> <i>NUST, Islamabad</i>

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Day 3: August 21, 2025

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<b>Chair: Prof Dr. Abdul Mubeen Lodhi, Sindh Agriculture University, Pakistan</b>			
<b>Invited Talks</b>	<b>9:30 – 10:10</b>	Metagenomics in Microbial Detection and Biosurveillance	<b>Prof. Dr. Kamraz Azim</b> <i>Muhammad Ali Jinnah University, Karachi, Pakistan</i>
	<b>10:10– 11:00</b>	Gene Mutations [KCNQ1, KCNJ8, KCNH2, SCN5A, and KCNJ1] and Their Clinical Implications in Long QT Syndrome Patients	<b>Dr. Afsheen Arif</b> <i>The Karachi Institute of Biotechnology and Genetic Engineering Khi, Pakistan</i>
	<b>11:00 -11:30</b>	<b>Tea Break</b>	
<b>Chair: Prof. Dr. Mehboob Sial, NIA Pakistan</b>			
<b>Invited Talk</b>	<b>11:30 – 12:10</b>	Awaited	<b>Prof. Dr. Abdul Mubeen Lodhi</b> <i>Sindh Agriculture University, Tandojam, Pakistan</i>
<b>Contributory Talks</b>	<b>12:10– 1:00</b>	<b>BS-69:</b> Effect of stability, Bio-Burden, Killing Time, Preservative Assessment and GC-analysis on Novel Developed Herbisol- A New Mouthwash <b>No Show</b>	<b>Mr. Hilal Shah</b> <i>Qarshi Industries Pvt Ltd Hattar Industrial Estate Pakistan</i>
		<b>BS-293:</b> Green Synthesis of Silver Nanoparticles Using Aloe Vera and Polyvinyl Alcohol for Cancer Therapy	<b>Ms. Shazia Bashir</b> <i>Pakistan Institute of Engineering &amp; Applied Sciences, PIEAS, Islamabad</i>
		<b>BS-358:</b> Hybrid Intelligent Computing Approach to Evaluate Lockdown-Induced Changes in Forestry Biomass, Wildlife Species, and Atmospheric Pollution <b>No Show</b>	<b>Dr. Muhammad Shoab</b> <i>AI center, Yuan Ze University, Taiwan</i>
		<b>BS-530:</b> Efficacy Evaluation of Indigenous Isolates of Metarhizium anisoplae in Comparison with Insecticides for the Management of Red Palm Weevil	<b>Dr. Jam NAzir Ahmed</b> <i>University of Agriculture, Faisalabad Pakistan</i>
	<b>01:00 – 1:10</b>	<b>Closing Remarks</b>	
	<b>01:10 – 02:30</b>	<b>Lunch Break &amp; Departure</b>	