

# 19<sup>th</sup> IBCAST 2022: Biosciences (BS)

(16 – 19 August 2022)

## Tentative Technical Program

Updated on:  
August 15, 2022

### Day 1: August 16, 2022

	<b>9:00 - 12:30</b>	<b>Registration</b>	
	<b>12:30 - 2:00</b>	<b>Lunch Break</b>	
<b>Opening Message</b>	<b>2:00 - 2:10</b>	Welcome address by Program Coordinator	<b>Prof. Dr. Saifullah Khan</b> <i>Centre of Excellence in Science &amp; Applied Technology (CESAT), Islamabad, Pakistan</i>
<b>Chair: Prof. Dr. Waseem Akram</b>			
<b>Invited Talk</b>	<b>2:10 - 2:50</b>	Mathematical models for analysis of Covid-19 pandemic	<b>Prof. Dr. M. Rafiq</b> <i>University of Central Punjab, Lahore, Pakistan</i>
<b>Plenary Talk</b>	<b>2:50 - 3:10</b>	<b>BS-100:</b> Computationally efficient numerical analysis for Hanssen's disease dynamics	<b>Dr. M. Sarwar Ehsan</b> <i>University of Central Punjab, Pakistan</i>
	<b>3:10 - 3:30</b>	Therapeutic Potential of Local Medicinal Shrub Calotropis procera	<b>Dr. Mudassir Ali</b> <i>University of Veterinary and Animal Sciences, Pakistan</i>
	<b>3:30 - 4:00</b>	<b>Tea Break</b>	
	<b>4:00 - 4:20</b>	<b>BS-719:</b> In-silico and in-vitro studies on candidate DNA vaccine constructs for SARS-CoV-2	<b>Mr. Shezaib Siddiqui</b> <i>CESAT, Islamabad Pakistan</i>
<b>Invited Talk</b>	<b>4:00 - 5:00</b>	Preliminary animal trials of candidate DNA vaccine(s) against COVID-19	<b>Dr. Nadia Jamil</b> <i>CESAT, Islamabad Pakistan</i>
<b>Plenary Talk</b>	<b>5:00 - 5:20</b>	<b>BS-708:</b> Dengue and COVID-19 co-infection: A real problem, and concurrent control management	<b>Ms. Farhat Jabeen</b> <i>University of Agriculture, Faisalabad</i>

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### Day 2: August 17, 2022

Invited Talk	9:00 – 9:45	Quorum quenching to reduce fouling in membrane bioreactor applications	<b>Prof. Güleda Engin</b> <i>Yildiz Technical University, Istanbul, Turkey</i>
	9:45 – 10:30	Isolation and screening of antibiotic producing actinomycetes against MDR pathogens from soil sediments	<b>Prof. Dr. Syeda Asma</b> <i>University of Haripur , Pakistan</i>
	10:30 -11:00	<b>Tea Break</b>	
<b>Chair: Prof. Dr. Bushra Jamil</b>			
Plenary Session II	11:00 - 12:30	BS-608: Detection of SARS-CoV-2 by RT-LAMP assay in Human COVID-19 patients	Mr. Waqas Rafique Ali <i>University of Agriculture, Faisalabad</i>
		BS-859: Development and comparison of Indigenous Biosafe Molecular Transport Medium (IMTM) with commercial transport media for detection of SARS COV 2 samples	Ms. Tayab un Nisa <i>CESAT, Islamabad Pakistan</i>
		BS-860: Evaluation of routinely used virus inactivation temperature and UV exposure on the stability of SARS-CoV-2	Mr. Mujtaba Baber <i>CESAT, Islamabad Pakistan</i>
		BS-423: Molecular Detection of mecA gene in Methicillin – Resistant Staphylococcus aureus isolated from clinical specimens	Ms. Maham Akram <i>University of the Punjab, Lahore</i>
		BS-668: First report on successful hand rearing of lion cubs at Lahore Zoological Garden, Pakistan	Dr. Madiha Ashraf <i>Lahore Zoological Garden</i>
	12:30 - 2:00	<b>Lunch Break</b>	
Invited Talk	2:00 - 2:45	Association between chronic inflammation and diseases	<b>Prof. Dr. Aqeel Ahmed</b> <i>Salim Habib University, Karachi Pakistan</i>

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<b>Plenary Session III</b>	<b>2:45 - 3:30</b>	<b>BS-861:</b> An efficient and reliable diagnosis approaches for re-positive and asymptomatic COVID-19 patients via combinatory diagnostics assessing URT specimens.	<b>Dr. Ashaq Ali</b> <i>CESAT, Islamabad Pakistan</i>
		<b>BS-536:</b> Validation of indigenous LAMP detection kit for SARS-COV-2 molecular screening	<b>Mr. Waqar Hassan</b> <i>CESAT, Islamabad Pakistan</i>
	<b>3:30 - 4:00</b>	<b>Tea Break</b>	
<b>Invited Talk</b>	<b>4:00 - 4:45</b>	Climate, zoonosis and biological threats	<b>Prof. Dr. Bushra Jamil</b> <i>The Aga Khan University, Karachi Pakistan</i>
	<b>4:45 - 5:30</b>	Biosensors for detection of Bacillus anthracis	<b>Prof. Dr. Xianen Zhang</b> <i>Wuhan Institute of Virology, China</i>

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### Day 3: August 18, 2022

Invited Talk	9:00 – 9:45	Dengue a serious health burden: Surveillance to management through a more advanced system tracking system	<b>Prof. Dr. Waseem Akram</b> <i>Agriculture University Faisalabad Pakistan</i>
	9:45 – 10:30	Development of hyperimmune Anti-SARS-CoV-2 intravenous immunoglobulin and phase ½ clinical trials	<b>Prof. Dr. Shaukat Ali</b> <i>CESAT, Islamabad Pakistan</i>
	10:30 - 11:00	<b>Tea Break</b>	
<b>Chair: Prof. Dr. Aqeel Ahmed</b>			
Invited Talk	11:00 – 11:40	Development of Molecular Markers for the screening of mastitis resistant animals.	<b>Prof. Dr. Sehrish Firyal</b> <i>University of Veterinary and Animal Sciences (UVAS), Lahore, Pakistan</i>
Plenary Session IV	11:40 - 12:30	<b>BS-837:</b> Evaluation of indigenously developed Quick Test Strip (QTS-24) with foreign compatible product (API-20E)	Ms. Noor Afshan <i>CESAT, Islamabad Pakistan</i>
		<b>BS-74:</b> Drug repurposing for SARS-COV-2 using molecular docking	Mr. Imran Aqeel <i>Pakistan Institute Of Engineering And Applied Sciences</i>
		<b>BS-756:</b> Prevalence, bacteriology and antimicrobial susceptibility of bacteria associated with bovine mastitis in cattle and buffaloes of Khyber Pakhtunkhwa in year 2020-21	Dr. Tariq Ali <i>Veterinary Research Institute, Peshawar</i>
		<b>BS-724:</b> Data mining and protein interaction studies to prioritize potential drug targets against carbapenem resistant <i>Klebsiella pneumoniae</i>	Dr. Faiza Jamil <i>Dr. Panjwani Center for Molecular Medicine and Drug Research, ICCBS, University of Karachi</i>
	12:30 - 2:00	<b>Lunch Break</b>	

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<b>Chair: Dr. Muhammad Ali</b>			
<b>Invited Talk</b>	<b>2:00 - 2:45</b>	Development of chloroplast based COVID-19 vaccine	<b>Dr. M. Waqar Hameed</b> <i>CESAT, Islamabad Pakistan</i>
<b>Plenary Session V</b>	<b>2:45 - 3:30</b>	<b>BS-355:</b> Doxorubicin-loaded hybrid gold nanoparticles based remedy for ovarian carcinoma	<b>Mr. Abdul Basit</b> <i>Department of Electronic Engineering, International Islamic University, Islamabad, Pakistan</i>
		<b>BS-742:</b> Preparation and topographical studies of various biological specimens using alternate method to critical point drying: Scanning Electron Microscopy	<b>Mr. Najeeb Ullah</b> <i>CESAT, Islamabad Pakistan</i>
		<b>BS-561:</b> Co-processed excipients-A step towards better drug product performance	<b>Ms. Sehar Iqtidar</b> <i>Jinnah University for Women, Karachi</i>
	<b>3:30 - 4:00</b>	<b>Tea Break</b>	
<b>Invited Talk</b>	<b>4:00 - 4:45</b>	Will be updated soon.	<b>Prof. Dr. Joy Fleming</b> <i>Chinese Academy of Sciences, China</i>

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### Day 4: August 19, 2022

Invited Talk	9:00 – 10:20	Development of monoclonal antibodies	<b>Dr. Moazam Khan</b> <i>Switzerland</i>
		Emerging & Re-emerging infectious diseases	<b>Prof. Dr. Muhammad Ali</b> <i>Quaid-e-Azam University, Islamabad, Pakistan</i>
	10:20 – 10:30	<b>Closing Remarks</b>	<b>Prof. Dr. Saifullah Khan</b> <i>Centre of Excellence in Science &amp; Applied Technology (CESAT), Islamabad, Pakistan</i>
	10:30 – 11:00	<b>Tea Break</b>	
	11:00 – 12:40	<b>Closing Ceremony</b>	
	12:40 – 2:00	<b>Lunch Break</b>	
	2:00 – 5:30	<b>Departure to Islamabad</b>	