

# 18<sup>th</sup> IBCAST 2021: Biosciences (BS)

(12 – 15 Jan 2021)

## Tentative Technical Program

Updated on:  
January 14, 2021

### Day 1: January 12, 2021

<b>Opening Message</b>	9:45 - 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>
<b>Invited Talk</b>	10:00 – 10:45	Post-COVID-19 challenges to healthcare and social life	<b>Prof. Dr. Aqeel Ahmed</b> <i>Barrett Hodgson University, Karachi, Pakistan</i>
	10:45 - 11:30 (1:45PM BEIJING TIME)	Lessons learnt from COVID-19. Diagnostics approaches and Epidemiological Investigation	<b>Mr. Ashaq Ali</b> <i>Wuhan Institute of Virology, China</i>
	11:30 - 11:50	<b>Break</b>	
<b>Invited Talk</b>	11:50 - 12:35	Surveillance of genetic diversity and evolution in locally transmitted SARS-CoV-2 in Pakistan during first wave of the COVID-19 pandemic	<b>Prof. Dr. Ishtiaq Ahmed</b> <i>International Centre for Chemical &amp; Biological Sciences (ICCBS), University of Karachi, Pakistan</i>
<b>Plenary Session I</b>	12:35 - 1:00	BS-658: A study on adaptation of <i>Aedes aegypti</i> mosquito larvae in sewage, boring and sea water	Ms. Nasrin Abdul-Hai <i>CESAT, Islamabad Pakistan</i>
	1:00 - 2:00	<b>Break</b>	
<b>Invited Talk</b>	2:00 - 2:45	Nanobiotechnology	<b>Mr. Qaiser Mansoor</b> <i>Institute of Biomedical &amp; Genetic Engineering (IBGE), Islamabad, Pakistan</i>
<b>Plenary Session II</b>	2:45 - 4:00	Drug target identification, ADMET profiling and dynamics simulation of selected inhibitor against <i>Treponema pallidum</i> sub sp <i>pertenue</i>	Dr. Zarrin Basharat <i>ICCBS, UoK, Pakistan</i>
		BS-644: Multiple antibiotic resistance indexing of coliforms	Ms. Noor Afsha <i>CESAT, Islamabad Pakistan</i>
		BS-279: Chemical composition, uses and biological properties of eucalyptus	Dr. M. Muddassir Ali <i>UVAS, Lahore Pakistan</i>

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		BS-398: Comparison of Named Entity Recognition models based on Neural Network in Biomedical	Azka Kishwar <i>Riphah International University, Pakistan</i>
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### Day 2: January 13, 2021

Invited Talk	10:00 – 10:45	Biofilms: The platform of novel microbial functions and pathogen monitoring	<b>Prof. Dr. Muhammad Ashraf</b> <i>NIAB, Faisalabad</i>
	10:45 – 11:30	Detection of SARS-CoV-2 in waste water, using the existing environmental surveillance network: An epidemiological gateway to an early warning for COVID-19 in communities	<b>Dr. Salmaan Sharif</b> <i>National Institute of Health (NIH), Islamabad, Pakistan</i>
	11:30 - 11:50	<b>Break</b>	
Plenary Session III	11:50 - 1:00	Pan-Genomics, drug candidate mining and ADMET profiling of natural product inhibitors screened against <i>Yersinia pseudotuberculosis</i>	Mr. Muhammad Jahanzaib <i>ICCBS, University of Karachi.</i>
		BS-591: Morphological identification of tick species prevalent in Quetta and Karachi Cities, Pakistan	Mr. Sana Ullah <i>CESAT, Islamabad Pakistan</i>
		Optimization of expression conditions in minimal medium for high yield production of phosphotransferase system galactitol specific IIB protein of methicillin resistant <i>Staphylococcus aureus</i> in <i>E. coli</i> expression system	Mr. Muhammad Faisal <i>CESAT, Islamabad Pakistan</i>
	1:00 - 2:00	<b>Break</b>	
Invited Talk	2:00 - 2:45	Mathematical Modeling of Infectious Diseases Dynamics	<b>Prof. Dr. M. Rafiq</b> <i>University of Central Punjab, Lahore, Pakistan</i>
Plenary Session IV	2:45 - 3:30	BS-28: Direct LAMP Colorimetric Assay for Rapid Detection of SARS-COV-2 in a Close Tube system	Mr. Syed Waqar Hassan <i>CESAT, Islamabad Pakistan</i>
		BS-502: Skin Cancer Classification Using Image Processing and Machine Learning	Mr. Arslan Javaid <i>Riphah International University</i>
		BS-278: Comparison between biological and medicinal properties of <i>Cyrtocarpa procera</i> & <i>Bursera morelensis</i>	Ms. Tayyaba Rehman <i>UVAS, Lahore</i>
Invited Talk	3:30 - 4:00	Pathology & Pathogenesis of SARS-CoV-2 associated with fatal corona virus disease	<b>Dr. Mansoor Nasim</b> <i>NewYork, USA</i>

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### Day 3: January 14, 2021

Invited Talk	10:00 – 10:45	Rock dwelling Microbes & their potential applications	<b>Prof Dr. Fariha Hasan,</b> <i>Microbiology Dept Quaid-i-Azam University, Islamabad</i>
	10:45 - 11:30	Production of polyhydroxy butyrate by agriculture waste using solid state fermentation	<b>Prof. Dr. Shagufta Saeed</b> <i>University of Veterinary &amp; Animal Sciences, Lahore, Pakistan</i>
	11:30 - 11:50	<b>Break</b>	
Plenary Session VI	11:50 – 12:40	BS-631: Maternal and fetal outcomes in pregnant women with Covid 19 infection; A case series of 16 patients at A tertiary care hospital	Dr. Hasina Sadiq <i>KRL Hospital, Islamabad</i>
		BS-449: Solar Based Human Embedded Energy Harvester	Mr. Waqas Shakoor <i>UET, Peshawar</i>
		BS-582: Assessment of two immunoassays detecting hepatitis B virus surface antigen in blood donors population	Dr. Hina Ishtiaq <i>Sardar Bahadur Khan Womens's University</i>
Invited Talk	12:40 - 01:30 (3:40PM BEIJING TIME)	Experience of COVID-19 prevention and control in China	<b>Prof. Dr. Yong Zhang</b> <i>National Institute for Viral Disease Control and Prevention CDC, China</i>
	1:30 - 2:00	<b>Break</b>	
Invited Talks	2:00 - 2:45	Analysis of polymorphism in BRCA1 Gene and its associations with inherited breast cancer in dairy animals	<b>Prof. Dr. Sehrish Firyal</b> <i>University of Veterinary &amp; Animal Sciences, Lahore, Pakistan</i>
	2:45 - 3:30	Molecular Epidemiology of SARS-CoV-2 in Pakistan	<b>Dr. Massab Umair</b> <i>National Institute of Health (NIH), Islamabad, Pakistan</i>

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<b>Plenary Session VII</b>	<b>3:30 - 4:00</b>	BS-632: Prevalence of perinatal depression and anxiety symptoms of pregnant women during covid-19 outbreak	Dr. Maria Aslam <i>HBS Medical &amp; Dental College, Islamabad</i>
		BS-628: Isolation and Characterization of Thiophenic Sulfur Metabolizing Bacteria from Oil Contaminated Soil Samples	Ms. Javeria Akram <i>National Institute for Biotechnology &amp; Genetic Engineering (NIBGE)</i>

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### Day 4: January 15, 2021

Invited Talk	10:00 – 10:45	Detection of Pedilanthus leaf curl virus and <i>Ageratum conyzoides</i> alphasatellite in <i>Senna occidentalis</i> exhibiting leaf curl disease; a case study for biosurveillance of begomo viruses	<b>Dr. Sumaira Yousaf</b> <i>Plant Protection Division, Nuclear Institute of Agriculture and Biology (NIAB)</i>
	10:45 – 11:30	Chemiluminescent microparticle Immunoassay based detection and prevalence of HIV infection in Islamabad, Pakistan	<b>Prof. Dr. Muhammad Ali</b> <i>Quaid-e-Azam University, Islamabad, Pakistan</i>
	11:30-11:50	<b>Break</b>	
Plenary Session VII	11:50 – 12:05	BS-560: Towards Investigating the Role of Proprotein Convertase Subtilisin/Kexin Family (PCSK/7/9) in Cancer by Using Bioinformatics Motif Detection Technique	Mr. Umar Draz <i>COMSATS, Pakistan</i>
	12:05-12:30	<b>Closing Remarks</b>	<b>Prof. Dr. Saifullah Khan</b> <i>Centre of Excellence in Science &amp; Applied Technology (CESAT), Islamabad, Pakistan</i> <b>Dr. M. Zafar-uz-Zaman,</b> <b>(S.I.)</b> <i>Scientific Secretary</i>