

21st IBCAST 2024 : Biosciences (BS)

(20 –22 August2024)

Updated on:
August 17, 2024

Day 1: August 20, 2024

Tentative Technical Program

		Registration	
Opening Message	2:00 - 4:00		Prof. Dr. Saifullah Khan <i>Centre of Excellence in Science & Applied Technology (CESAT), Islamabad, Pakistan</i>
	4:00 - 4:10	Welcome address by Program Coordinator	
Chair: Prof. Dr. Xiaozhou He			
Invited Talk	4:10 - 4:50	Molecular detection and characterization of emerging viruses in Pakistan, Lessons and challenges	Prof. Dr. Muhammad Ali <i>Quaid-e-Azam University, Islamabad, Pakistan</i>
Contributory Talk	4:50 - 5:30	BS-506: Optimization and Development of DNA based Biosensor for the detection of Pathogens	Mr. Waqar Hassan <i>CESAT, Islamabad Pakistan</i>
		BS-195: Accelerating Genome Sequence Analysis via Pre-alignment filtering: A Review of Sneaky Snake Algorithm	Mr. Soroush Javed Sulehri <i>Pakistan Institute of Engineering and Applied Sciences (PIEAS) Islamabad, Pakistan</i>

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Day 2: August 21, 2024

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Chair: Prof. Dr. Shaukat Ali			
Invited Talk	9:30–10:10	Next-generation sequencing for virome analysis: A modern framework for public health surveillance	Prof. Dr. Xiaozhou He <i>National Institute for Viral Disease Control and Prevention, Chinese Center for Disease Control and Prevention (China CDC)</i>
	10:10–11:00	Preparing for Future Pandemics: Insights Gained from COVID-19	Prof. Dr. İhsan Gürsel <i>Izmir Biomedicine and Genome Center, Izmir, Turkiye</i>
11:00-11:20		Tea Break	
Chair: Prof. Dr. İhsan Gürsel			
Invited Talk	11:20 – 1200	New Trends in Sustainable Locust Management in Pakistan: Could Microbials Prove to Be the Best Remedy?	Prof. Dr. Riffat Sultana <i>Department of Zoology University of Sindh Jamshoro, Pakistan</i>
Contributory Talk	12:00-01:00	BS-531: Scanning electron microscopy (SEM) analysis and biological control of grasshopper using entomopathogenic fungi	Mr. Santosh Kumar <i>Cholistan University of Veterinary and Animal Sciences, Bahawalpur, Pakistan</i>
		BS-522: Concentration and purification methods for viral inactivated vaccine production	Dr. Muhammad Rashid <i>CESAT, Islamabad Pakistan</i>
		BS-252: Safety Assessment of COVID-19 mRNA-Based, Inactivated, and Non-Replicating Viral Vector Vaccination in Diabetic and Non-Diabetic Population	Ms. Aroosa Younis Nadeem <i>National University of Science & Technology (NUST), Islamabad, Pakistan</i>
01:00-2:30		Lunch Break	

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Chair: Prof. Dr. Hee-Il Lee			
Invited Talk	2:30-3:20	Developing a more effective Integrated Vector Management program for dengue vector control	Prof. Dr. Waseem Akram <i>University of Agriculture, Faisalabad Pakistan</i>
Contributory Talk	3:20-4:00	BS-330: Sustainable Waste Disposal Solutions: Harnessing Organic Waste for Energy Generation	Ms. Nasreen Bano <i>SZABIST, Karachi</i>
		BS-542: Development of Poly (ethylene oxide)/ Guar Gum/ lawsone Based Scaffolds Via Direct Ink Write Printing for Potential Burn Care Applications	Dr. Muhammad Atiq Ur Rehman <i>Institute of Space Tech Islamabad, Pakistan</i>
4:00 - 4:20		Tea Break	
Contributory Talk	4:20-4:40	BS-362: Japanese Encephalitis Virus in Pakistan: An Update and Way Forward	Dr. Tayyab Un Nisa <i>CESAT, Islamabad Pakistan</i>

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Day 3: August 22, 2024

Tentative Technical Program

Chair: Prof. Dr. Waseem Akram

Invited Talk	9:00 – 9:40	Mosquito Surveillance System with Artificial Intelligence Techniques	Prof. Dr. Hee-Il Lee <i>Division of Vectors and Parasitic Diseases, KDCA, Korea</i>
	9:40– 10:00	Therapeutic approaches utilizing Microbial Sensors	Prof. Dr. İhsan Gürsel <i>IBG, İzmir, Türkiye</i>
Contributory Talk	10:00– 11:00	BS-342: Vector burden associated with disease load and serotype circulation during the dengue outbreak	Ms. Sukaina Hussain <i>University of Agriculture, Faisalabad</i>
		BS-529: Study of Candidate rDNA Vaccines against COVID-19	Dr. Nadia Jamil <i>CESAT, Islamabad Pakistan</i>
		BS-508: Development of a simple, efficient and cost-effective method for production of Taq DNA polymerase	Dr. Shahid Mahmood <i>CESAT, Islamabad Pakistan</i>
	11:00 -11:20	Tea Break	
Chair: Prof. Dr. Saifullah Khan			
Invited Talk	11:20 – 12:00	Comprehensive insight into antimicrobial resistance, unravelling clinical impact, epidemiological trends & antibiotic resistance challenges	Prof. Dr. Saadia Andleeb <i>National Uni of Science & Tech, Isl d</i>
	12:00 – 12:40	Mpox in Pakistan: From Diagnostic and treatment challenges to research opportunities	Dr. Fizza Farooqui <i>Sindh Infectious Disease Hospital & Res Centre, Karachi</i>
Contributory Talk	12:40 – 01:00	BS-152: Selection of Suitable Internal Control Gene for Analyzing Innate and Humoral Immune Responses in COVID-19 Gene Expression Studies	Ms. Tehreem Tahir <i>IBGE Islamabad, Pakistan</i>
	01:00 – 02:30	Lunch Break	
Contributory Talk	02:30 – 03:20	BS-488: RNNDRP: Developing Recurrent Neural Network based anticancer drug response prediction model	Mr. Awais Raza Zaidi <i>PIEAS, Islamabad</i>
		BS-549: Exploring Host-pathogen Interaction to prioritize Drug Targets against Multi-drug Resistant Klebsiella pneumoniae	Dr. Faiza Jamil <i>CESAT, Islamabad Pakistan</i>
	02:30 – 03:20	Closing Remarks	
			Prof. Dr. Saifullah Khan <i>CESAT, Islamabad, Pakistan</i>