



**SCIENTIFIC PROGRAM**  
**14<sup>th</sup> International Biennial Conference (FIBC – PSM 2023)**  
**NOVEMBER, 22-24- 2023**

<b>DAY 1</b>		<b>Wednesday, November 22, 2023</b>
<b>Scientific Session-1 (MBB Auditorium)</b>		
<b>Climatic Change and Food Security Issues with Public Health Challenges</b>		
<b>Chair: Dr. Fateh Muhammad Marri, Vice Chancellor, Sindh Agriculture University, Tandojam, Sindh.</b>		
<b>Co-Chair: Dr. Imtiaz Hussain, Department of Food Science Technology &amp; University of Poonch Rawalakot, Pakistan</b>		
Keynote 09:00 am	<b>Impact of Environmental Challenges on the status of Food Safety and Security in Pakistan</b> <i>Dr. Fateh Muhammad Marri, Vice Chancellor, Sindh Agriculture University, Tandojam, Sindh, Pakistan</i>	
Keynote 09:20 am	<b>Addressing Public Health Challenges Due to Natural or Environment Related Events – Cholera an Example</b> <i>Dr. Anwar Huq, Maryland Pathogen Research Institute, Department of Cell Biology and Molecular Genetics, University of Maryland, College Park, MD, USA</i>	
Keynote 09:40 am	<b>Surveillance of Infectious diseases and role of Mobile Lab (BSL-2) during Flood and Climate Change in Sindh, Pakistan</b> <i>Dr. Saeed Khan, Professor of Pathology, DIMC, DUHS, Program Director, PPHL, Sindh, DUHS, Sindh, Pakistan</i>	
Keynote 10:00 am	<b>Impact of Climate Change on Public Health in Pakistan</b> <i>Dr. Shahzad Ali Khan, VC, Health Services Academy, Islamabad, Pakistan</i>	
10:20 am	<b>Importance of Climate Change Education and Public Awareness.</b> <i>Dr. Asefa Shariq Ansari, Department of Public Health, Shaheed Zulfikar Ali Bhutto Institute of Science and Technology, Karachi, Pakistan.</i>	
10:30 am	<b>Isolation and Antibiotic Resistance Pattern of Shiga toxin-producing <i>Escherichia coli</i> from Raw Milk</b> <i>Ayesha Jalil, Department of Microbiology, University of Haripur, KPK, Pakistan</i>	
10:40 am	<b>Emergence of Antimicrobial-Resistant <i>Escherichia coli</i> in Water from Slum Area in Karachi, Pakistan: A Concern for Public Health</b> <i>Shagufta Iqbal, Shaheed Zulfikar Ali Bhutto Institute of Science and Technology, Karachi, Sindh, Pakistan</i>	
10:50 am	<b>Detection of Antimicrobial Residues of Quinolones and Nitrofurantoin in Fish and Chicken Samples - One Health Food Concern</b> <i>Kaneez Fizza, Department of Microbiology, Government College University, Faisalabad, Punjab, Pakistan</i>	
11:00 am	<b>Comparative Study of Prevalence of <i>Staphylococcus aureus</i> and <i>Pseudomonas aeruginosa</i> in Processed and Unprocessed Chicken Meat and their Antibiotic Susceptibility Testing</b> <i>Zulekha Faisal, Department of Life Sciences, Shaheed Zulfikar Ali Bhutto Institute of Science and Technology, Karachi, Sindh, Pakistan</i>	
11:10 am	<b>Chemo-Biohazards; Risk Assessment by in Vivo/in Vitro Toxicological and Molecular Techniques</b> <i>Dr. Ameena Mobeen, Soil &amp; Environmental Biotechnology Division, National Institute for Biotechnology and Genetic Engineering (NIBGE), Faisalabad, Punjab, Pakistan</i>	
11:20 am	<b>Prevalence and Antibiotic Resistance pattern of <i>E. coli</i> in Chlorine Treated Drinking Water.</b> <i>Ms. Syeda Faiza Zafar, Department of Microbiology, University of Karachi, Sindh, Pakistan</i>	
Concluding Remarks by the Chair and Souvenir Distribution with Group Photo		
<b>Scientific Session-2 (Seminar Room-1)</b>		
<b>Antimicrobial Resistance, Gut Microbiome and Health</b>		
<b>Session Chair: Dr. Kaiser Waheed, CEO, Medisure Pharma, Karachi</b>		
<b>Session Co-Chair: Dr. Muhammad Tanweer Khan, Wallenberg Laboratory, Department of Molecular and Clinical Medicine, Institute of Medicine, University of Gothenburg, Gothenburg, Sweden</b>		
Keynote 09:00 am	<b>Genetic Odyssey: Tracing Multidrug Resistance in <i>Acinetobacter baumannii</i> Research across Pakistan</b> <i>Dr. Mohsin Khurshid, Institute of Microbiology, Government College University Faisalabad, Pakistan</i>	
Keynote 09:20 am	<b>The Intricacy of Gut Microbiota and Human Health</b> <i>Dr. Muhammad Tanweer Khan, Wallenberg Laboratory, Department of Molecular and Clinical Medicine, Institute of Medicine, University of Gothenburg, Gothenburg, Sweden.</i>	
Keynote 09:40 am	<b>Uncovering the Hidden Threat: <i>Acinetobacter baumannii</i> – A Microbiological Survey of Distribution in the Hospital Environment and Disinfectant Tolerance</b> <i>Dr. Samreen Sarwar, Department of Microbiology, University of Health Sciences, Lahore</i>	
10:20 am	<b>Combination Effect of Medicinal Herbs and Antibiotics Against Molecular Characterize Multidrug Resistant <i>Staphylococcus aureus</i> Isolated from UTI Patients in Swat</b> <i>Taj-Ud-Din, Centre for Biotechnology and Microbiology, University of Swat, KPK, Pakistan</i>	



10:30 am	<b>Efflux Pumps and Biocide Resistance in Carbapenem-Resistant <i>Acinetobacter baumannii</i> Clinical Isolates in Pakistan</b> <i>Zeeshan Taj, Institute of Microbiology, Government College University, Faisalabad, Punjab, Pakistan</i>
10:40 am	<b>Antimicrobial activity of <i>Plumbago</i> species against Methicillin-resistant <i>staphylococcus aureus</i> (MRSA)</b> <i>Maleeha M Silat, Department of Biosciences, Salim Habib University, Karachi, Sindh, Pakistan</i>
10:50 am	<b>Detection of Vancomycin Resistance Genes and Integrons from Clinical Enterococcus Isolates</b> <i>Talha Masood, Department of Microbiology, University of Haripur, KPK, Pakistan</i>
11:00 am	<b>Synergistic Effect of Bacteriophages and Antibiotics against Multidrug-Resistant <i>Acinetobacter baumannii</i></b> <i>Nudrat Naseeb, Institute of Microbiology, Government College University, Faisalabad, Punjab, Pakistan</i>
11:10 am	<b>Antibiotic Residue, Antibiotic-Resistant Bacteria, and Antimicrobial Resistance Genes in Raw Milk and Beef Samples</b> <i>Aatika, Institute of Microbiology, Government College University, Faisalabad, Punjab, Pakistan</i>
11:20 am	<b>Frequency of Intestinal Parasitic Infestation (Protozoa and Helminths) among school going Children in Karachi, Pakistan.</b> <i>Sikandar Khan Sherwani, Laboratory of Infectious Diseases and Immunology Research, Department of Microbiology and Federal Urdu University, Karachi, Pakistan.</i>
11:30 am	<b>Study of Class 1 Integrons in Multidrug-Resistant Uropathogen</b> <i>Dr. Fouzia Zeeshan Khan, Dow University of Health Sciences, Karachi, Pakistan</i>
Concluding Remarks by the Chair and Souvenir Distribution with Group Photo	
<b>Tea Break</b>	
<b>Inaugural Ceremony of the FIBC-PSM-2023</b> <b>MBB Auditorium</b> <b>Moderator: Prof. Dr. Ghazala Rubab / Dr. Shaheena Anwar</b>	
11:40am	Meet and Greet
11:45am	Recitation of Holy Quran
11:50 am	National anthem
11:55 am	Welcome Address by <b>Prof. Dr. Shakeel Ahmed Khan</b> , VC, Salim Habib University / Patron-in-Chief, FIBC-PSM 2023
12:05pm	Welcome Address by <b>Prof. Dr. Farhan Essa Abdullah</b> , CEO. Dr. Essa Laboratory & Diagnostic Center / Patron in Chief. PSM
12:15pm	Address by <b>Prof. Dr. Shahana Urooj Kazmi</b> , President , Pakistan Society for Microbiology, Chairperson FIBC-PSM 2023
12:25pm	<b>Brief Comments by Chancellor / Vice Chancellors of partner Universities</b> <i>Prof. Dr. Khalid Iraqi, University of Karachi, Sindh, Pakistan</i> <i>Prof. Dr. Shahzad Ali Khan, Health Services Academy, Islamabad, Pakistan</i> <i>Prof. Dr. Syed Tipu Sultan, Malir University of Science and Technology, Karachi, Sindh, Pakistan</i> <i>Prof. Dr. Johar Ali, UIT University, Karachi, Sindh, Pakistan</i> <i>Prof. Dr. Fateh Muhammad Marri, Sindh Agriculture University, Tandojam, Sindh, Pakistan</i> <i>Prof. Dr. Syed Habib Bokhari, Kohsar University Murree, Pakistan</i> <i>Prof. Dr. Mujaddad Ur Rehman, Abbottabad University of Science &amp; Technology, Havelian, Pakistan</i>
12:45pm	Prof. Dr. Ahmed Ali Anwer Inaugural lecture by <b>Dr. Rana Jawad Asghar</b> <b>CEO, Global Health Strategists &amp; Implementers (GHSI), Pakistan, Adjunct Professor of Epidemiology, University of Nebraska Medical Center, USA</b>
1:00 pm	Address by Chief Guest, <b>Prof. Dr. Kauser Abdullah Malik</b> ,HI,SI, TI, Federal Minister for National Food Security & Research, Islamabad, Pakistan.
1:10 pm	Distribution of Souvenirs
1:30 pm	Vote of Thanks by <b>Prof. Dr. Aqeel Ahmad</b> , Dean, Salim Habib University / Secretary FIBC- PSM - 2023
<b>Inauguration of Scientific Exhibition and Poster Session</b>	
<b>Lunch &amp; Prayer Break</b>	
<b>Scientific Session 3 (MBB Auditorium)</b> <b>Antimicrobial Agents, Bioactive Substances and Nanotechnology</b> <b>Session Chair: Dr. Rahila Ikram, Dean Faculty of Pharmacy, Salim Habib University, Karachi</b> <b>Session Co-Chair: Dr. Mohsin Khurshid, Institute of Microbiology, Government College University Faisalabad, Pakistan</b>	
Keynote	<b>Mycogenic Synthesis of Ag/ZnO Nanocomposite for Antimicrobial Activity</b>
02:30 pm	<i>Dr. Bushra Uzair, Department of Biological Sciences, International Islamic University, Islamabad, Pakistan</i>
Keynote	<b>Inhibitory properties of Diisooctyl phthalate and Bis-(2-ethylhexyl)phthalate Compounds Isolated from</b>



02:45 pm	<b>Vitex doniana Fruit Oil Against Bacterial Strains</b> <i>Dr. Ugoy Sonia A. Ogbonna, Nnamdi Azikiwe University Awka, Nigeria.</i>
03:00 pm	<b>Exploring the Antimicrobial Potential of Biologically Synthesized Zero Valent Iron Nanoparticles</b> <i>Kiran Akram, Department of Microbiology, Abbottabad University of Science &amp; Technology, Havelian, KPK, Pakistan</i>
03:10 pm	<b>Evaluation of Antimicrobial Properties of Honey Loaded Nano Fibers Against Selected Pathogens of Diabetic Foot Ulcers</b> <i>Hafiz Muhammad Aamir Farooq, Department of Microbiology, University of Haripur, Haripur, KPK, Pakistan</i>
03:20 pm	<b>Combination Therapy for MRSA Super Bugs: Biofilm Targeted Drug Loaded Nanoparticles as a New Approach for Difficult-to-Treat Infections</b> <i>Saba Nazir, Department of Microbiology, Jinnah University for Women, Karachi, Sindh, Pakistan</i>
03:30 pm	<b>Isolation and Identification of Bla<sub>oxa-50</sub> Gene from Drug Resistance Strains of <i>Pseudomonas aureginosa</i> from Raw Milk Samples</b> <i>Javeria Liaqat, Department of Microbiology, University of Haripur, KPK, Pakistan</i>
03:40 pm	<b>The Functional Repertoire of Amp<sup>R</sup> in the Amp<sup>C</sup> <math>\beta</math>-lactamase High Expression and Decreasing <math>\beta</math>-lactam and Aminoglycoside Resistance in ESBL <i>Citrobacter freundii</i></b> <i>Falak Naz Tariq, Department of Microbiology, Abbottabad University of Science and Technology, Havelian, Abbottabad, KPK, Pakistan</i>
03:50 pm	<b>In vitro and in vivo assessment of lithium complex and Colistin based combination therapy for antimicrobial synergy against multi-drug resistant <i>A. baumannii</i></b> <i>Dr. Ayaz Ahmed, Dr. Panjwani Center for Molecular Medicine and Drug Research, International Center for Chemical and Biological Sciences, University of Karachi, Sindh, Pakistan</i>
04:00 pm	<b>To investigate synergistic effect with antibiotics of silver nanoparticles stabilized with Succinic acid (AGNPS/SA) and optimization with response Surface Methodology.</b> <i>Dr. Afsheen Arif, The Karachi Institute of Biotechnology and Genetic Engineering, University of Karachi</i>
04:10 pm	<b>Role of Hypoxia in Diet-Induced Obesity and Insulin Resistance.</b> <i>Dr. Arshad Mahmood, Department of Biosciences, Salim Habib University, Karachi, Sindh, Pakistan</i>
Concluding Remarks by the Chair and Souvenir Distribution with Group Photo	
<b>Tea and Scientific Poster presentation</b>	
<b>Scientific Session 4 (Seminar Room-1)</b>	
<b>Pharmaceutical Microbiology for New Bioactive Substances and One Health</b>	
<b>Chair: Senator Abdul Haseeb Khan, CEO, Brooks Pharma</b>	
<b>Co-Chair: Dr. Claudio Guedes Salgado, Brasilia, Brazil</b>	
Keynote 02:30 pm	<b>New approaches for leprosy control in Brazil: qPCR and anti-PGL-I IgM integrated to the primary health care.</b> <i>Dr. Claudio Guedes Salgado, Coordination of Transmissible Diseases Care, Department of Integrated Care Management, Primary Health Care Secretariat, Ministry of Health, Brasilia, Brazil</i>
Keynote 02:45 pm	<b>Environmental regulation of virulence in pathogenic <i>Leptospira</i> spp.</b> <i>Dr. Paul D. Brown, At-Large Councilor, ASM Council on Microbial Sciences Professor of Molecular Biology, Head, Department of Basic Medical Sciences, The University of the West Indies Mona, Kingston 7 Jamaica</i>
Keynote 03:00 pm	<b>Cancer immune-diagnostics, NGS &amp; personalized medicines</b> <i>Dr. M. Asif Qureshi, Dow University of Health Sciences, Karachi, Pakistan</i>
03:20 pm	<b>Robust Application of Indigenous Molecular Transport Medium</b> <i>Tayyab Un Nisa, Center of Excellence in Science and Applied Technologies, Islamabad, Pakistan</i>
03:30 pm	<b>In-Vivo Therapeutic Activity of <i>Ocimum Sanctum</i> Extract as an Anti-Diabetic Agent</b> <i>Madah, Department of Pharmacology, Baqai Institute of Pharmaceutical Sciences, Baqai Medical University, Karachi, Sindh, Pakistan</i>
03:40 pm	<b><i>Olea europaea</i> mediated green synthesis of SnO nanoparticles and SnO dope with fecl<sub>2</sub> and its biological applications</b> <i>Numan Khan, Institute of Biotechnology &amp; Microbiology, Bacha Khan University, Charsadda, Khyber Pakhtunkhwa, Pakistan</i>
03:50 pm	<b>Microbiological efficacy of different marketed shampoos in Karachi</b> <i>Sidra Siddiqui, Department of Pharmaceutics, Hamdard University, Karachi, Sindh, Pakistan</i>
04:00 pm	<b>Eco-friendly textile desizing with indigenously produced amylase from <i>Bacillus cereus</i> AS2</b> <i>Aneela Rehman, Department of Microbiology, Abbottabad University of Science &amp; Technology, Havelian, KPK, Pakistan</i>
04:10pm	<b>Fungal endophytes from <i>Berberis lycium</i>: A source of potential bioactive antioxidant and antibacterial compounds against drug resistant and biofilm forming bacterial pathogens.</b> <i>Waqas Hussain Shah, Department of Biotechnology, COMSATS University Islamabad, Abbottabad Campus,</i>



	<i>Pakistan</i>
04:20pm	<b>Antidiarrheal potential of Lactobacillus strains isolated from pharmaceutical formulations for the treatment of pediatric diarrhea</b> <i>Syed Imran Ali, Department of Pharmaceutics, Faculty of Pharmacy and Pharmaceutical Sciences, University of Karachi, Karachi, Pakistan</i>
Concluding Remarks by the Chair and Souvenir Distribution with Group Photo	
<b>Tea and Scientific Poster presentation</b>	
<b>Scientific Session 5 (Seminar Room-2)</b>	
<b>Industrial Session on</b>	
<b>Microbiological Challenges in Testing for Food Safety</b>	
<b>Organized By: National Alliance for Safe Food</b>	
<b>Chair: Prof. Dr. Shaheena Naz, University of Karachi</b>	
<b>Co-Chair: Dr. Omer Mukhtar Tarar, PCSIR Karachi</b>	
<b>Co-Chair: Dr. Jawad Ansari, NED University</b>	
<b>Coordinator: Kamran Saleem</b>	
<b>Moderator: Aqsa Fahim</b>	
<b>Speakers:</b>	
1- Dr. Naeem Ullah Naeem, GM Popular Foods	
2- Mr. Mudasar Nazir, SGS Pakistan	
3- Miss. Asna Burney, Marriott Hotel Karachi	
4- Mr. Hassan Adil, UM Enterprises	
Concluding Remarks by the Chair and Souvenir Distribution with Group Photo	
<b>Tea and Scientific Poster presentation</b>	
<b>2 DAY</b>	
<b>Thursday, November 23, 2023</b>	
<b>Scientific Session 6 (MBB Auditorium)</b>	
<b>Bacterial Infections and Diagnostics</b>	
<b>Chair: George F Araj, Clinical Microbiology American University of Beirut Medical Center</b>	
<b>Co-Chair: Dr. Zaid Ahmed Pirzada, Karachi University</b>	
Keynote 09:00 am	<b>Human Brucellosis: A Major Mimicking Disease and the Impact of Laboratory Assays on its Diagnosis</b> <i>Dr. George F Araj, Clinical Microbiology American University of Beirut Medical Center.</i>
Keynote 09:20 am	<b>Streptococcus pyogenes strains associated with invasive and non-invasive infections</b> <i>Dr. Zaid Ahmed Pirzada, Department of Microbiology, University of Karachi, Pakistan</i>
Keynote 09:40 am	<b>Strengthening of diagnostic and research laboratories is a key for surveillance and early response to infectious diseases</b> <i>Dr. Javed Muhammad, Department of Microbiology, University of Haripur, KPK, Pakistan</i>
10:00 am	<b>Prevalence and antimicrobial susceptibility of pathogens isolated from superficial and deep-seated Skin and soft tissue infections</b> <i>Muhammad Faisal, Department of Microbiology, University of Karachi, Sindh, Pakistan</i>
10:10 am	<b>Seroprevalence and molecular detection of brucellosis among samples of Pakistani women having spontaneous abortion</b> <i>Mohammad Ejaz, Department of Microbiology, Quaid-i-Azam University, Islamabad, Pakistan</i>
10:20 am	<b>Pneumococcal carriage, virulence genes distribution, and in vitro growth behavior of Streptococcus pneumoniae among Infants (&lt;5 years) in Quetta, Pakistan, a region with a high risk of respiratory illnesses</b> <i>Niamatullah Kakar, Department of Natural and Basic Sciences, University of Turbat, Kech, Pakistan</i>
10:30 am	<b>Neonatal Screening for Congenital Hypothyroidism in Sindh, Pakistan</b> <i>S. Furqan Hassan, National Institute of Child Health, Karachi, Sindh, Pakistan</i>
10:40 am	<b>Prevalence and antibiotic profile of Carbapenem-resistant gram-negative pathogens isolated from ventilator-associated pneumonia patients in tertiary hospitals in Pakistan</b> <i>Zeb Hussain, Department of Microbiology, University of Karachi, Sindh, Pakistan</i>
10:50 am	<b>Molecular identification of Candidatus liberibacter causing citrus greening disease in district Haripur</b> <i>Faisal Zaman, Department of Microbiology, University of Haripur, KPK, Pakistan</i>
11:00 am	<b>Phenotypic and genotypic identification of invasive Yeast isolates from Pakistan</b> <i>Dr. Saba Memon, Department of Pathology &amp; Laboratory Medicine, Aga Khan University, Karachi, Pakistan</i>
11:10 am	<b>Bacteriological and antibacterial susceptibility profiles of septicemic neonates</b> <i>Dr. Farheen Ansari, Faculty of Life Sciences, Gulab Devi Educational Complex, Lahore, Pakistan</i>
11:20 am	<b>Human Brucellosis: An Overview of Diagnostic Advancement and Challenges</b> <i>Dr. Hamida Nusrat, San Francisco State University, San Francisco, CA, USA, University of California Berkeley, CA, USA California Department of Public Health, Richmond, CA, USA</i>
Concluding Remarks by the Chair and Souvenir Distribution with Group Photo	





<b>Scientific Session 7 (Seminar Room-1)</b>	
<b>Antimicrobial Resistance, Antimicrobial Agents and Nano Antibiotics</b>	
<b>Chair: Dr. Muhammad Hidayat Rasool, Institute of Microbiology, Government College University, Faisalabad, Pakistan</b>	
<b>Co-Chair: Mr. Muhammad Raheel, Deputy Director Marketing and sales, Getz Pharma, Karachi, Pakistan</b>	
Keynote 09:00 am	<b>Molecular epidemiology of MDR and XDR <i>Salmonella typhi</i> isolates from pediatric septicemia patients in Pakistan</b> <i>Dr. Muhammad Usman Qamar, Institute of Microbiology, Government College University Faisalabad, Faisalabad, Punjab, Pakistan</i>
Keynote 09:15 am	<b>Intestinal microbiota variation in Grass Carps, Silver Carps, Tilapia and polyculture farming system</b> <i>Dr. Rehana Kausar, Aquaculture and Fisheries programme, NARC</i>
Keynote 09:30 am	<b>Action to support implementation of Codex AMR Texts (ACT)</b> <i>Dr. Javaria Alam, Food and Agriculture Organization of the United Nations, Pakistan</i>
Keynote 9:45 am	<b>Integrated antimicrobial use and resistance surveillance: Case of Colistin</b> <i>Dr. Mashkooor Mohsin, Institute of Microbiology, University of Agriculture, Faisalabad, Pakistan</i>
10:00am	<b>Polyethylene glycol-coated ciprofloxacin conjugated iron oxide nano-composites, exhibited enhanced antibacterial and wound healing effects</b> <i>Hussan-Ibne-Shoukani, Department of Microbiology, University of Haripur, KPK, Pakistan</i>
10:10 am	<b>High Hydrostatic Pressure Mediated Antibacterial Activity of Biogenic Silver Nanoparticles (AgNPs) against <i>Staphylococcus aureus</i> and <i>Pseudomonas aeruginosa</i></b> <i>Dr. Marriam Yamin, Laboratory of Protein Thermodynamics, Department of Biochemistry and Tissue Biology, Institute of Biology, State University of Campinas (UNICAMP), Campinas, SP, Brazil/ Department of Bioscience, Salim Habib University..</i>
10:20 am	<b>Efficacy of Antibiotics with Efflux Pump Blockers on Mmulti-Drug Resistant Bacterial Strains</b> <i>Neha Farid, Department of Biosciences, Faculty of Life Sciences, Shaheed Zulfikar Ali Bhutto Institute of Science and Technology, Karachi, Sindh, Pakistan</i>
10:30 am	<b><math>\beta</math>-Lapachone Shows Antimicrobial Effects and Reduces Skin Tumor: Through Apoptosis Regulation in Mice</b> <i>Maimoona Sabir, Department of Microbiology, University of Haripur, Haripur, KPK, Pakistan</i>
10:40 am	<b>Unleashing Nature's Secret: Invention of Nano-fertilizers from Pomegranate Peel as Boosting Vigna Mungo Growth and Reducing the Root Pathogenic Microorganism</b> <i>Gulnaz Parveen, Department of Botany, Women's University of Swabi, Swabi, Khyber Pakhtunkhwa, Pakistan</i>
10:50 am	<b>Characterization of Lactobacillus isolates from mother's milk and their potential antimicrobial properties</b> <i>Hifza Rehman, Department of Microbiology, University of Haripur, Haripur, Khyber Pakhtunkhwa, Pakistan</i>
11:00 am	<b>Characterization of Lactobacillus species isolated from healthy infants and their potential antimicrobial activity against Enteropathogenic bacteria</b> <i>Afshan Saleem, Department of Microbiology, University of Haripur, KPK, Pakistan</i>
11:10 am	<b>Control of Aspergillus oryzae tyrosine hydroxylase on ZnO nanocrystals for enhanced constancy and catalytic efficacy towards L-dopa production</b> <i>Muhammad Shaheen Iqbal, Food &amp; Biotechnology Research Center, PCSIR Laboratories Complex Ferozepur Road, Lahore</i>
11:20 am	<b>Harmaline and its Derivatives against the Infectious Multi-Drug Resistant <i>Escherichia coli</i></b> <i>Amtul Sami, Women University Swabi, Khyber Pakhtunkhwa, Pakistan</i>
Concluding Remarks by the Chair and Souvenir Distribution with Group Photo	
Tea Break (11:30 am To 11:40 am)	
Visit of Scientific Research Posters	
<b>Scientific Session 8 (MBB Auditorium)</b>	
<b>Immunodiagnosics and Vaccines in Control of Infectious Diseases</b>	
<b>Chair: Dr. Asif Qureshi, DUHS, Karachi</b>	
<b>Co-Chair: Dr. Adil Khan, Mount Allison University Sackville, New Brunswick, Canada</b>	
Keynote 11:40 am	<b>Virus-Like Particles: An Attractive Platform for Vaccine Development - An Overview</b> <i>Dr. Muhammad Hidayat Rasool, Institute of Microbiology, Government College University, Faisalabad, Pakistan</i>
Keynote 12:00 pm	<b>Retrotransposons &amp; retroviruses; diversity and role in plants Genome</b> <i>Dr. Faisal Nouroz, Department of Bioinformatics/Botany, Hazara University Mansehra, Pakistan</i>
Keynote 12:15 pm	<b>Late Prof. Dr. Hajra Khatoon's Memorial lecture</b> <b>Exploring the Evolutionary Dynamics of Salmonella: A RAPD-Based Genotyping Approach</b> <i>Dr. Muhammad Naseem Khan, Microbiology Section, FMRR, PCSIR Laboratories Complex Karachi, Pakistan</i>
12:30 pm	<b>The Effect of the Guided Disclosure Protocol on Post-Traumatic Growth and Psychoneuroimmunological</b>



	<b>Markers</b> <i>Dr. Shamoon Noushad, Department of Psychology, Malir University of Science and Technology, Karachi, Sindh, Pakistan</i>
12:40 pm	<b>Complete B2L gene sequence of ORF virus isolates from Punjab, Pakistan</b> <i>Dr. Kashif Iqbal, Department of Microbiology, Faculty of Veterinary and Animals Sciences, The Islamia university of Bahawalpur, Punjab, Pakistan</i>
12:50 pm	<b>Design and in silico analysis of mRNA vaccine construct against Salmonella</b> <i>Muhammad Janees Imdad, Microbiology Section, FMRRRC, PCSIR Laboratories Complex, Karachi, Sindh, Pakistan</i>
01:00pm	<b>The Relationship of HOMA-IR Values, Maternal Age, and BMI with Gestational Diabetes Mellitus A Case-Control Study</b> <i>Nazia Feroz, Department of Biochemistry, Dow Medical College, Dow University of Health Sciences, Karachi, Pakistan</i>
Concluding Remarks by the Chair and Souvenir Distribution with Group Photo	
<b>Scientific Session 9 (Seminar Room-1)</b> <b>Public Health Biosafety Issues in Industries and Research Institutes</b> <b>Chair: Prof. Dr. Johar Ali, Vice Chancellor, UIT University,</b> <b>Co-Chair: Dr. Saifullah Khan, Center of Excellence in Science and Applied Technologies, Islamabad, Pakistan</b>	
Keynote 11:40 am	<b>Emerging Trends in Microbiology</b> <i>Dr. Johar Ali, Vice Chancellor, UIT University, Karachi, Sindh, Pakistan</i>
Keynote 12:00 pm	<b>Bioactive and Smart packaging for food biocontrol and preservation</b> <i>Dr. Ali Akbar, Center for Biotechnology and Microbiology University of Swat, Swat Khyber Pakhtunkhwa Pakistan</i>
Keynote 12:15 pm	<b>Challenges to Assuring the Quality of Medical PPEs in Pakistan</b> <i>Dr. Syeda Rima Ishaq, CEO RIConsultants &amp; Co, Consultant Microbiologist (USP), Karachi, Pakistan</i>
12:30 pm	<b>Staphylococcus aureus isolated from clinical samples and its antibiogram analysis</b> <i>Mahwish Riaz, Department of Microbiology, Shaheed Benazir Bhutto Women's University, Peshawar, Khyber Pakhtunkhwa, Pakistan</i>
12:40 pm	<b>Decoding genetic diversity among clinical molds</b> <i>Sadaf Zaka, Department of Pathology &amp; Laboratory Medicine, Aga Khan University Hospital, Sindh, Karachi, Pakistan</i>
12:50 pm	<b>Chilling Challenges: Unveiling Microbial Dynamics and Risk Profiling in Household Refrigerators</b> <i>Mahwish Noorian, Microbiology Section, FMRRRC, PCSIR Laboratories Complex, Karachi, Sindh, Pakistan,</i>
01:00 pm	<b>Exploring the rhizosphere of halophytes present at coastline of Pakistan for extremophilic bacteria that can resist high salinity and metal toxicity for their potential to enhance glycophytes crop yield</b> <i>Dr. Sadia Khalil, Department of Microbiology, Federal Urdu University of Arts, Science and Technology, Karachi, Sindh, Pakistan</i>
01:10 pm	<b>Production and Optimization of Extremophilic Bacterial Laccase</b> <i>Dr. Tabbassum Kiran, Department of Microbiology, Federal Urdu University of Arts, Science and Technology, Karachi, Sindh, Pakistan</i>
Concluding Remarks by the Chair and Souvenir Distribution with Group Photo	
<b>Scientific Session 10 (Seminar Room-2)</b> <b>Lab to Life; Exploring Biosafety, Biosecurity and Infection Control Strategies</b> <b>Chair: Dr. Rafique Khanani, Clinical Trial Consultant, Safe Covax Program Director, Covid Vaccination Training Advisor. Cov</b> <b>Co-Chair: Dr. Saeed Khan, Professor of Pathology, DIMC, DUHS, Program Director, PPHL, Sindh, DUHS, Sindh, Pakistan</b>	
Keynote 11:40 am	<b>Pitfalls &amp; Preparedness in National Response to Infectious Diseases and its Impact on Health &amp; Economy</b> <i>Dr. Syed Habib Bokhari, Vice Chancellor, Kohsar University Murree, Pakistan</i>
Keynote 12:00 pm	<b>Infection Precautions and Control: Standard Precautions and Measures</b> <i>Dr. Nain Tara, Department of Microbiology, Women University Swabi, KPK, Pakistan</i>
Keynote 12:15 pm	<b>Laboratory Acquired Infections: Implications and Solutions</b> <i>Dr. Usman Qamar, Institute of Microbiology, Government College University Faisalabad, Faisalabad, Pakistan</i>
12:30 pm	<b>Infection Control Program for Health Care Facility</b> <i>Dr. Khushbakht Nawaz Khan, Department of Pathology, Baqai Medical College Baqai Medical University, Karachi, Sindh, Pakistan</i>
12: 40 pm	<b>Development of rapid system for microbial load detection from drinking water and food samples</b>



	<i>Hafza Aisha Siddique, Department of Microbiology, Jinnah University for Women, Karachi, Sindh, Pakistan,</i>
12: 50 pm	<b>Hazard Analysis Critical Control Point (HACCP) System Implementation in the Dairy Supply Chain (Karachi-Pakistan)</b> <i>Sayed Zaheer Abbas, Microbiology Section, FMRRRC, PCSIR Laboratories Complex, Karachi, Pakistan</i>
01:00pm	<b>Optimization of Fermentation Conditions for Lab Scale Production of Amylase by Bacterial Isolates</b> <i>Zartasha Syed, Department of Microbiology, Abbottabad University of Science &amp; Technology, Abbottabad, KPK, Pakistan</i>
01:10pm	<b>Isolation of endophytic fungi from <i>Catharanthus roseus</i> and investigation of their antibacterial activity</b> <i>Syeda Hajra Fatima, Department of Microbiology, University of Karachi, Karachi, Sindh, Pakistan</i>
Concluding Remarks by the Chair and Souvenir Distribution with Group Photo	
<b>Lunch and Prayer Break with Scientific Research Poster Exhibition</b>	
<b>Scientific Session 11 (MBB Auditorium)</b>	
<b>Agricultural and Environmental Microbiology with food safety concern</b>	
<b>Chair: Prof. Dr. Habib Bukhari, Vice-Chancellor, Kohsar University, Marree</b>	
<b>Co-Chair: Dr. Paul D. Brown, Department of Basic Medical Sciences, University of the West Indies Mona, Kingston 7 Jamaica</b>	
Keynote 02:00 pm	<b>Nature's Social Network: Quorum Sensing Activity among Epiphytic Bacteria of Red Macroalga <i>Gracilaria lemaneiformis</i></b> <i>Dr. Muhammad Aslam, Lasbela University of Agriculture, Water and Marine Sciences, Uthal, Pakistan</i> <i>Guangdong Provincial Key Laboratory of Marine Biotechnology and STU-UNIVPM Joint Algal Research Center, College of Science, Shantou University, Shantou, China</i>
Keynote 02:20 pm	<b>Diversity and therapeutic aspects of fungal entophytes isolated from medicinal plants of Pakistan</b> <i>Dr. Sobia Nisa, Department of Microbiology, University of Haripur, KPK, Pakistan</i>
Keynote 02:40	<b>Attitudes, Knowledge, and Practices towards Hygiene and Food Safety among Street Vendors in Rawalakot, Azad Jammu &amp; Kashmir</b> <i>Dr. Imtiaz Hussain, Department of Food Science Technology &amp; University of Poonch, Rawalakot</i>
03:10 pm	<b>PGPR Application: Paving the way forward towards Sustainable Agriculture</b> <i>Qurban Ali Panhwar, Soil &amp; Environmental Sciences Division, Nuclear Institute of Agriculture (NIA), Tandojam, Sindh, Pakistan</i>
03:20 pm	<b>Arbuscular Mycorrhizal Symbiosis: A Promising Approach for Enhancing Plant Growth under Stress Conditions</b> <i>Amanat Ali, Soil Microbiology Group, Soil &amp; Environmental Sciences Division, Nuclear Institute of Agriculture (NIA), Tandojam</i>
03:30 pm	<b>Assessing the potential of halotolerant Plant-promoting bacteria isolated from halophyte <i>Sesuvium portulacastrum</i> for the growth improvement in <i>Triticum aestivum</i> (wheat) under saline conditions</b> <i>Naila Rafique, Department of Microbiology, Federal Urdu University of Arts, Science and Technology, Karachi, Sindh, Pakistan</i>
03:40 pm	<b>Marine Microbes as Biocontrol Agents: Combating Fusarium Wilt in Banana Plant</b> <i>Mazahir Hussain, Microbiology Section, FMRRRC, PCSIR Laboratories Complex, Karachi, Pakistan</i>
03:50 pm	<b>Mycoremediation of Heavy Metals (Cd and Cr) Polluted Soil through Indigenous Metallotolerant Fungal isolates</b> <i>Dr. Ibrar Khan, Department of Microbiology, Abbottabad University of Science &amp; Technology, Abbottabad, KPK, Pakistan</i>
04:00pm	<b>Effectiveness of compost inoculated with phosphate solubilizing bacteria</b> <i>Areesha Ahmad, Department of Microbiology, University of Karachi, Karachi, Sindh, Pakistan</i>
04:10pm	<b>Effectiveness of phosphate rich bio fertilizer</b> <i>Dr. Urooj Zafar, Department of Microbiology, University of Karachi, Sindh, Pakistan</i>
04:20pm	<b>Phosphatase Activity of heavy metal-resistant bacteria isolated from the rhizosphere of marine halophytes from the Coastline of Balochistan</b> <i>Drousham Nasir, Department of Microbiology, Federal Urdu University of Arts, Science and Technology, Karachi, Sindh, Pakistan</i>
04:30pm	<b>The potential of Sunflower associated entophytic diazotroph towards lowering the chemical fertilizer pollution and soil health</b> <i>Afshan Majeed, Soil and Environmental Sciences, University of Poonch, Rawalakot, Azad Jammu and Kashmir</i>
Concluding Remarks by the Chair and Souvenir Distribution with Group Photo	
<b>Scientific Session 12 Microbial challenges in Pharmacy Profession</b>	
05:00 pm	Formal opening of the session and Qirat <i>Phr. Farah Ahmed /Mr. Ateeq</i>
05:05 pm	<b>Microbiology in Pharmaceuticals</b> <i>Dr. Ghazala Ishrat Asst. Prof., Manager Linkages and Regulatory Affairs</i>
05:30 pm	<b>Microbiological perspectives of Quality In Pharmaceuticals</b>



	<i>Anwer Jamal, Head of Quality Herbion Pakistan (Pvt.) Limited</i>
05:50 pm	<b>Microbiology in Clinical settings</b> <i>Dr. Kashif Chief Pharmacist Aga Khan University Hospital</i>
06:10 pm	<b>Expert's Panel discussion and Q/A session.... Rational use and misuse of Antibiotics</b> <i>Dr. Zafar Alam and other Experts</i>
06:15 pm	<b>Comments by Session Co-Chairperson</b> <i>Dr. Iqbal Azhar</i>
06:20 pm	<b>Conclusive remarks by the Chairperson</b> <i>Mr. Inam ur Rehman</i>
06:30 pm	<b>Vote of thanks and Closing</b> <i>Dr. Rahila Ikram</i>
<b>Scientific Session 13 (Seminar Room-1)</b>	
<b>One Health Concern for Public Health</b>	
<b>Chair: Dr. Rabaab Zahra, Department of Microbiology, Quaid-E-Azam University, Islamabad, Punjab, Pakistan</b>	
<b>Co-Chair: Dr. Sobia Nisa, Haripur University, KPK</b>	
Keynote 02:00 pm	<b>Role of fruit juice as prebiotic in the management of acute watery diarrhoea in under five aged children in Nigeria</b> <i>Dr. Ifeoma Enweani-Nwokelo, Nnamdi Azikiwe University, Awka, Nigeria</i>
Keynote 02:20 pm	<b>Sustainable approaches to overcome water scarcity</b> <i>Dr. Shazia Tabassum Hakim, Dine College, Tuba City, AZ-USA</i>
Keynote 02:40 am	<b>Gaps and challenges in antimicrobial resistance: at the front of clinical and non-clinical settings</b> <i>Dr. Rabaab Zahra, Department of Microbiology, Quaid-E-Azam University, Islamabad, Punjab, Pakistan</i>
03:10 pm	<b>Isolation and identification of Biofilm formers from used toothbrushes and evaluation of beneficial effects of green tea as homemade organic mouthwash</b> <i>Dr. Fozia Humayun, Department of Microbiology, Jinnah University for Women, Karachi, Sindh, Pakistan</i>
03:20 pm	<b>Brushing Off the Truth: How Dirty is Your Toothbrush?</b> <i>Samah Daniyal, Dhanani School of Science and Engineering, Habib University, Karachi, Sindh, Pakistan</i>
03:30 pm	<b>Association of vitamin D supplementation with clinical outcomes in pregnant women</b> <i>Shaheena Anwar, Department of Biosciences, Salim Habib University, Karachi, Sindh, Pakistan</i>
03:40 pm	<b>Impact of caffeine on the histology of liver and blood microflora of albino rats</b> <i>Dr. Nabeel Mohammed Ghanem, Department of Medical Laboratories, Faculty of Applied Sciences, Turba Br. Taiz University, Taiz, Yemen</i>
03:50 pm	<b>Morphological identification and callus induction of <i>Sargassum fluitans</i> from Karachi, Pakistan</b> <i>Rao Muhammad Abid Khan, Sindh Institute of Medical Sciences, Karachi, Sindh, Pakistan</i>
04:00pm	<b>The role of salivary Interleukin-6 with Anxiety, Depression and Periodontitis; A study on inflammatory biomarkers</b> <i>Sara Rafique, Jinnah Medical &amp; Dental College, Karachi, Sindh, Pakistan</i>
04:10pm	<b>Probiotics protect intestinal microbial dysbiosis and subsequent aero-gastric infections of <i>Staphylococcus aureus</i> and <i>Pseudomonas aeruginosa</i></b> <i>Dr. Affhan Shoaib, Department of Biosciences, Salim Habib University, Karachi, Sindh, Pakistan</i>
04:20pm	<b>Prevalence of Antibiotic Resistant Bacteria and Antibiotic Resistance Genes in the Human Oral Cavity</b> <i>Javariya Zafar, Department of Microbiology, Quaid-E-Azam University, Islamabad, Punjab, Pakistan</i>
Concluding Remarks by the Chair and Souvenir Distribution with Group Photo	
<b>Scientific Session 14 (Seminar-2)</b>	
<b>Tuberculosis, AIDS and Other Communicable Diseases and their control</b>	
<b>Chair: Dr. Naseem Salahuddin, Head of the Infectious Diseases, Indus Hospital, Karachi, Pakistan</b>	
<b>Co-Chair: Dr. Sharaf Ali Shah, Executive Director, Bridge Consultants Foundation</b>	
Keynote 02:00 pm	<b>Late Prof. Dr. Khalil Chishti's Memorial lecture</b> <b>Tuberculosis and HIV / AIDS two major killer diseases in the world: Current situation in Pakistan, challenges and way forward</b> <i>Dr. Sharaf Ali Shah, Executive Director, Bridge Consultants Foundation</i>
Keynote 02:20 pm	<b>Current Situation of Tuberculosis in Pakistan, Challenges, and need of Post UNHLM Tuberculosis advocacy campaign for enhanced political commitment</b> <i>Dr Saleem Kazmi, CDC, Sindh</i>
Keynote 02:40	<b>Sulforaphane inhibits the reactivation of HIV-1 in latently infected cells</b> <i>Dr. Irfan A. Khan, Department of Basic and Clinical Sciences, Albany College of Pharmacy and Health Sciences, Albany, NY, USA.</i>
Keynote	<b>Emerging viral disease: a health care crisis</b>





03:10 pm	<i>Dr. Shahana Urooj Kazmi, President, Pakistan Society for Microbiology</i>
03:30 pm	<b>National and International efforts to end TB and HIV/ AIDS in the world</b> <i>Dr Karam Shah, Dopasi foundation Islamabad</i>
03:40 pm	<b>Current status of vaccine development against TB and HIV</b> <i>Sten Vermund Yale, University, USA</i>
03:50 pm	<b>Epidemiology of Pulmonary Tuberculosis in Northern Area of KPK, Pakistan</b> <i>Wajid Hussain, Department of Microbiology, Hazara University, Mansehra, Pakistan</i>
04:00 pm	<b>Prevalence of Anti-HCV Antibodies and Analysis of Associated Risk Factors in Healthy Population of Tehsil Jaranwala District Faisalabad of Punjab, Pakistan</b> <i>Amna Aslam, Institute of Microbiology, Government College University, Faisalabad, Punjab, Pakistan</i>
04:10 pm	<b>Molecular Epidemiology and Characterization of Hepatitis Delta Virus from Peshawar division, KPK, Pakistan</b> <i>Izhar ul Haq, Department of Microbiology, University of Haripur, Haripur, KPK, Pakistan</i>
04:20 pm	<b>Sindh province: Impact of AFB Fluorescence Microscopy and Genexpert MTB/RIF Ultra techniques on Tuberculosis diagnosis</b> <i>Nazir Ahmed, Communicable Diseases Control (TB Program) Sindh.</i>
Concluding Remarks by the Chair and Souvenir Distribution with Group Photo	
<b>Tea (05:00 pm To 05:15 pm)</b>	
<b>Visit of Scientific Research Posters</b>	
<b>3 DAY                      Friday, November 24, 2023</b>	
<b>Scientific Session    15 (MBB Auditorium)</b>	
<b>Industrial and Applied Biotechnology</b>	
<b>Chair: Prof. Dr. Naila Tariq, Head of the Laboratory services, National Hospital, DHA, Karachi</b>	
<b>Co-Chair: Dr. Amtul Quddous Latif, Associate Professor, Clinical Pathologist, Department of Clinical Pathology, JPMC, Karachi</b>	
Keynote 09:00 am	<b>Physico-chemical Characterizations and Safety analysis of Postbiotic Metabolites Extracted from Probiotic <i>Lactocaseibacillus acidophilus</i> and <i>Lactiplantibacillus plantarum</i>; Antibacterial actions Against Food borne Pathogens</b> <i>Dr. Naheed Mojtani, Biotechnology Department, Razi Vaccine and Serum Research Institute- Agriculture Research, Education and Extension Organization (AREEO), Karaj, Iran</i>
Keynote 09:15 am	<b><i>H. pylori</i> reduces PMS2 and ERCC1 DNA repair protein expression in gastritis and gastric cancer.</b> <i>Dr. Yasir Raza, Department of Microbiology, University of Karachi, Pakistan</i>
Keynote 09:30 am	<b>Late Prof. Dr. Pirzada Misbahuddin Ahmed Siddiqui's Memorial lecture</b> <b>The 1000 industrial microbe genome project</b> <i>Dr. Shahid Mansoor, Jamil ur Rehman Center for Genome Research, International Center for Chemical Biological Sciences, University of Karachi, Karachi, Pakistan</i>
Keynote 09:45 am	<b>Reducing AMR in Animal Health sector through the use of Vaccines</b> <i>Dr. Khalid Naeem Khawaja, Director, Averroes Laboratories, Islamabad, Pakistan</i>
10:00 am	<b>Production profile, characterization, and commercial potential of protease from a novel <i>Bacillus subtilis</i> ZMS-2</b> <i>Dr. Maryam Shafiqe, Department of Microbiology, Federal Urdu University of Arts, Science and Technology, Karachi, Sindh, Pakistan</i>
10:10 am	<b>Plant extracts as anti-dermatophyte agents; an old myth, plant extracts as dermatophyte growth promoting agents; a new fact</b> <i>Dr. Sadiah M. Saleemullah Khan, Department of Microbiology, University of Karachi, Sindh, Pakistan</i>
10:20 am	<b>Biodegradation of Acid Orange 52 via <i>Luffa cylindrica</i> Immobilized with <i>Aspergillus flavus</i> QMS-8 in Stirred Tank Bioreactor</b> <i>Dr. Qandeel Laraib, Department of Biosciences, Mohammad Ali Jinnah University, Karachi, Sindh, Pakistan.</i>
10:30 am	<b>Synergism between plant extract and spices against MDR bacteria</b> <i>Ms. Sumayya Tariq, Department of Biomedical Engineering, Ziauddin University, Karachi, Sindh, Pakistan.</i>
10:40 am	<b>Optimization of bacterial cellulose production from pea peel extract and its conversion into bio-plastic</b> <i>Dr. Sadia Urooj, Department of Microbiology, University of Haripur, KPK, Pakistan</i>
10:50 am	<b>Development of low-cost plant-based media for over production of bacterial bio surfactants</b> <i>Mr. Mumtaz Ali, Department of Microbiology, Federal Urdu University of Arts, Science and Technology, Karachi, Sindh, Pakistan</i>
11:00 am	<b>Identification of Biofouling Agents for Its Use as Targets for Designing Green Antifouling Strategies</b> <i>Dr. Mehreen Lateef, Bahria University College of Allied Health Sciences, Bahria University Health Sciences, Karachi Campus, Bahria University, Pakistan</i>



11:10 am	<b>Virulent non-albicans candida species: esterase activity, biofilm formation, and antifungal resistance</b> <i>Dr. Sehar Afshan Naz, Lab of Applied Microbiology and Clinical Mycology, Department of Microbiology, Federal Urdu University of Arts Sciences and Technology, Karachi.</i>
11:20 am	<b>Nmnat3 gain-of-function protects against diet and aging-associated obesity and insulin resistance in mice.</b> <i>M. Gulshan, Department of Biosciences, Salim Habib University, Karachi</i>
Concluding Remarks by the Chair and Souvenir Distribution with Group Photo	
<b>Scientific Session 16 (Seminar Room-1)</b> <b>Genetics of Disease and One Health Microbiome</b> <b>Session Chair: Dr. Ifeoma Enweani-Nwokelo, Nnamdi Azikiwe University Awka, Nigeria</b> <b>Session Co-Chair: Dr. Shahid Mansoor, Jamil ur Rehman Center for Genome Research, International Center for Chemical Biological Sciences, University of Karachi, Karachi, Pakistan</b>	
Keynote 09:00 am	<b>Assessment of Glutathione peroxidase 1 and 4 expression in Oral squamous cell carcinoma patients in tertiary care center.</b> <i>Dr. Shazia Akbar, Dow Dental College, Dow University of Health Sciences, Sindh, Pakistan</i>
Keynote 09:20 am	<b>Characterization of Oral bacteriome dysbiosis in type 2 diabetes</b> <i>Dr. M. Kamran Azim, Mohammad Ali Jinnah University, Karachi, Pakistan</i>
Keynote 09:40 am	<b>The Key Role of Microbiome in the Sustainable Development Goals (SDGS).</b> <i>Dr. Syeda Sadaf Akber, Malir University of Science and Technology, Karachi, Sindh, Pakistan</i>
10:00am	<b>Cloning and Periplasmic Soluble Expression of Hepatitis B Surface Antigen Gene in <i>Escherichia coli</i></b> <i>Matiullah, Department of Microbiology, Hazara University, Mansehra, KPK, Pakistan</i>
10:10 am	<b>Unlocking the Potentials of the Plasticsphere Microbiome through Shotgun Metagenomics</b> <i>Mahnoor Saleem, Department of Biosciences, Shaheed Zulfikar Ali Bhutto University of Science and Technology, Karachi, Sindh, Pakistan</i>
10:20 am	<b>Whole Genome Study and Comparative Genomics Analysis of Multidrug-Resistant Strain(s) of <i>Shigella</i> Species</b> <i>Syeda Marya Zaidi, Dr. A. Q. Khan Institute of Biotechnology and Genetic Engineering, University of Karachi, Sindh, Pakistan.</i>
10:30 am	<b>Detection of KPC gene in <i>Klebsiella pneumonia</i> isolated from hospital wastewater</b> <i>Ms. Sadia Bawany, Department of Microbiology, Jinnah University for Women, Karachi, Sindh, Pakistan.</i>
10: 40 am	<b>Genetic testing of the core gene for potential risk of type 2 diabetes mellitus: A target identification</b> <i>Ms. Afira Waqar, Department of Biosciences, Salim Habib University, Karachi, Sindh, Pakistan</i>
10: 50 am	<b>Molecular characterization of extended spectrum beta – lactamase producing microbes isolated from cesarean section infection.</b> <i>Minnen Khan, Department of Microbiology, University of Haripur, Haripur, Khyber Pakhtunkhwa, Pakistan</i>
11:00 am	<b>Identification of eta and oprI genes of <i>Pseudomonas aeruginosa</i> isolated from diabetic foot ulcer's patients from selected areas of Punjab</b> <i>Zobia Khadam, Department of Microbiology, University of Haripur, Haripur, KPK, Pakistan</i>
11:10 am	<b>Detection of BLAaMPc gene in <i>Pseudomonas aeruginosa</i> isolated from clinical samples</b> <i>Dr. Muhammad Mumtaz Khan, Department of Microbiology, University of Haripur, KPK, Pakistan</i>
11:20 am	<b>Isolation of <i>Bacillus thuringiensis</i> var. israelensis strain Bti-Pk and characterization of Mosquitocidal cry genes</b> <i>Dr. Aneela Taj, Centers of Excellence in Science and Applied Technologies (CESAT), Islamabad –Pakistan</i>
Concluding Remarks by the Chair and Souvenir Distribution with Group Photo	
<b>Tea Break (11:30 am To 11:40 am)</b>	
<b>Scientific Session 17 (MBB Auditorium)</b> <b>COVID 19 pandemic and Emerging Viral Infections</b> <b>Session Chair: Dr. Mujaddad Ur Rehman, Vice Chancellor, Abbottabad University of Science &amp; Technology, Havelian, Pakistan</b> <b>Session Co-Chair: Dr. Ghulam Fatima, CHK-Central Lab, Dr. Ruth K. M. Pfau, Civil Hospital, Karachi, Pakistan</b>	
Keynote 11:40 am	<b>A Retrospective Study of the Seroprevalence of Dengue Virus Exposures in Karachi Sindh Pakistan 2022</b> <i>Dr. Ghulam Fatima, CHK-Central Lab, Dr. Ruth K. M. Pfau, Civil Hospital, Karachi, Pakistan.</i>
Keynote 12:00 pm	<b>Bacteriophage Mediated Biological Control of Antibiotic/Pesticide Resistant Bacteria causing Citrus Canker in Pakistan</b> <i>Dr. Mujaddad Ur Rehman, Vice Chancellor, Abbottabad University of Science &amp; Technology, Havelian, Pakistan</i>
12:15 pm	<b>Unravelling SARS-CoV-2 Diversity: Variants of Concern during Karachi's Fifth COVID-19 Wave</b> <i>Hafsa Majid, Dow University of Health Sciences, Karachi, Sindh, Pakistan</i>
12:20 pm	<b>The COVID-19 pandemic: a novel SARS-COV2 virus infection, prevalence &amp; mortality rate in a tertiary care hospital of Karachi, Pakistan</b> <i>Urooj Ibrahim, Department of Microbiology, CHK Central Laboratory, Dr. Ruth K.M. Pfau Civil Hospital</i>



	<i>Karachi, Pakistan</i>
12:30 pm	<b>Microbiologists and antibiotics; a team which bore the burden to save the world. A review highlighting the Role of Good microbes and evolutionary aspects of anti-biotics in COVID -19 pandemic.</b> <i>Dr. Taha Ahmed, Department of Pharmaceutics, Faculty of Pharmacy, Hamdard University, Karachi, Sindh, Pakistan</i>
12:40 pm	<b>Distribution of MCR-1 Harboring Hypervirulent <i>Klebsiella pneumoniae</i> in Clinical Specimens and Lytic Activity of Bacteriophage KpnM against Isolates</b> <i>Bilal Aslam, Institute of Microbiology, Government College University Faisalabad, Punjab, Pakistan</i>
12:50 pm	<b>Molecular detection and phylogenetic analysis of lumpy skin disease virus involved in the 2022 outbreak in the Cholistan desert, Pakistan</b> <i>Tayyaba Asghar, Department of Microbiology, Bagdad-ul-jadeed campus, Islamia University of Bahawalpur, Bahawalpur, Punjab, Pakistan</i>
01:00 pm	<b>Detecting SARS-CoV-2 antibodies through the expression of the SARS-CoV-2 nucleocapsid protein using both lateral flow assay and ELISA</b> <i>Dr. Khalida Iqbal, Centers of Excellence in Science and Applied Technologies (CESAT), Pakistan</i>
01:10 pm	<b>The COVID-19 pandemic: a novel SARS-COV2 virus infection, prevalence &amp; mortality rate in a tertiary care hospital of Karachi, Pakistan</b> <i>Dr. Ghulam Fatima, Urooj Ibrahim, Suresh Kumar, Shahana Urooj Kazmi, Department of Microbiology, CHK Central Laboratory, Dr. Ruth K.M. Pfau Civil Hospital Karachi, Pakistan</i>
01:20 pm	<b>SARS-COV-2 DELTA Variant VS. BETA Variant Analysis in Pakistan: Comparison of Disease Severity”</b> <i>Naveera Raza, Department of Pathology, Ziauddin Medical College, Karachi, Pakistan</i>
Concluding Remarks by the Chair and Souvenir Distribution with Group Photo	
<b>Scientific Session 18 (Seminar Room-1)</b>	
<b>One Health, Vector Borne and Zoonotic Infections</b>	
<b>Session Chair: Dr. Nazeer Hussain Kalhoro, Sindh Institute of Animal Health, Karachi, Pakistan</b>	
<b>Session Co-Chair: Dr. Naeem Aziz Soomro, Sindh Agriculture University Tandojam and Sindh Institute of Animal Health, Sindh, Pakistan</b>	
Keynote 11:40 am	<b>Unveiling the Threat: Characterizing Tick Species and Associated Pathogens in Khyber Pakhtunkhwa, Pakistan, A note on the Novel Specie <i>Ixodes granulatus</i> with its Implications on Human Health</b> <i>Dr. Adil Khan, Department of Biology, Mount Allison University Sackville, New Brunswick, Canada</i>
Keynote 12:00 pm	<b>Deadly disease of Peacock</b> <i>Dr. Naeem Aziz Soomro, Sindh Agriculture University Tandojam and Sindh Institute of Animal Health, Sindh, Pakistan</i>
Keynote 12:15 pm	<b>Diagnosis of Mycoplasma infection in avian species</b> <i>Dr. Aqeel Ahmad, Salim Habib University, Karachi, Pakistan</i>
Keynote 12:30 pm	<b>Animal Vruses, One Health and Preventive Strategies.</b> <i>Dr. Nazeer Hussain Kalhoro, Sindh Institute of Animal Health, Karachi, Pakistan</i>
12:45 pm	<b>Sero-prevalence of Peste des petits ruminant in Sindh, Pakistan from December 2021 to November 2022</b> <i>Dr. Benazir Kanwal, Sindh Institute of Animal Health, Karachi, Sindh, Pakistan</i>
12:55 pm	<b>Prevalence of Clinical Malaria in District Khairpur Mir’s Sindh, Pakistan Epidemic Outbreak of Malarial <i>Plasmodium falciparum</i> and <i>Plasmodium vivax</i> in Sindh.</b> <i>Mr. Inam Ali Larik, Institute of Microbiology, Shah Abdul Latif University, Khairpur Mir’s Sindh, Pakistan</i>
01:05pm	<b>Phenotypic identification of ESBL <i>E. coli</i> from Chicken caeca in Islamabad, Pakistan</b> <i>Muhammad Fayaz, National Veterinary Laboratories, Islamabad, Punjab, Pakistan</i>
01:15pm	<b>Antimicrobial Residue of Carbendazim and Malachite Green in Fish Samples</b> <i>Zahra Gul, Institute of Microbiology, Government College University, Faisalabad, Punjab, Pakistan</i>
01:25pm	<b>Lytic Potential of Bacteriophages against Multidrug-Resistant <i>Escherichia coli</i> isolated from Poultry</b> <i>Aimen Khalid, Institute of Microbiology, Government College University, Faisalabad, Punjab, Pakistan.</i>
01:30pm	<b>Hematological and biochemical parameters as predictive markers of dengue severity in patients without warning sign</b> <i>Mr. Jehan Zaib Arshad, Department of Clinical Pathology, Jinnah Postgraduate Medical Centre, Sindh, Karachi, Pakistan</i>
Concluding Remarks by the Chair and Souvenir Distribution with Group Photo	
<b>Lunch and Prayer Break (01:45 pm To 02:30 pm)</b>	
<b>Visit of Scientific Research Posters</b>	
<b>Closing Ceremony (02:30 pm To 04:00 pm)</b> <b>Venue: MBB Auditorium</b>	



<b>Moderator: Ms. Hajra</b>	
02:30pm	Meet and Greet
02:40pm	Recitation of Holy Quran
02:50pm	Conference Proceeding and Recommendations by <b>Prof. Dr. Aqeel Ahmad, Secretary, FIBC-PSM 23</b>
03:00 pm	Remarks of the participants about the Conference
03:10pm	Address by <b>Prof. Dr. Shahana Urooj Kazmi</b> , President , Pakistan Society for Microbiology, Chairperson FIBC-PSM 2023
03:20pm	Address by Chief Guest, <b>Dr. Khalid Hussain Sheikh, Chairperson, Sindh Health Care Commission</b> , Pakistan.
03:30pm	Concluding Remarks: <b>Prof. Dr. Shakeel Ahmed Khan</b> , VC, Salim Habib University / Patron-in-Chief, FIBC-PSM 2023
03:40pm	Distribution of Souvenirs to Keynote Speakers and Scientific Exhibitors
4:00 pm	Group Photo with all participants