

4th INTERNATIONAL CONFERENCE ON BIOLOGICAL RESEARCH & APPLIED SCIENCE

January 23-25, 2024

JINNAH UNIVERSITY FOR WOMEN KARACHI, PAKISTAN





ABOUT CONFERENCE

The Jinnah University for Women, Karachi, Pakistan hosts the International Conference on Biological Research and Applied Science (IBRAS), a distinguished event that features the latest developments and innovations in the field of Biological, Chemical and Physical Sciences. The 4th IBRAS will be held in January 23-25, 2024 at Jinnah University for Women, Karachi, Pakistan in hybrid mode, which allows both online and on-campus participation, to accommodate the researchers and to ensure maximum participation. The conference will offer various technical tracks in the domains of Botany, Biochemistry, Biotechnology, Chemistry, Computer Science, Food Science, Microbiology and Zoology. The conference will feature keynote speeches, invited talks, oral presentations, poster presentation, workshop and tutorial. The conference series has successfully completed its first, second and third editions in 2021, 2022 and 2023 attracting an average of 2000 attendees, featuring distinguished international keynote speakers, and presenting over 100 oral papers. Conference proceedings and glimpses are available at the website https://ibras.juw.edu.pk/.

RELEVANCE AND SCIENTIFIC SIGNIFICANCE

This three-day international conference aims to provide a platform for researchers, academicians, students and industry professionals to exchange ideas, share knowledge, and foster collaborations. This can lead to the more effective results in terms of development of a scientist's consortium working on new discoveries for regional development. The conference enables students and young researchers to gain valuable insights from the leading professionals, which can inspire them to achieve personal and professional growth.

CONFERENCE TRACKS

IBRAS-2024 will offer a unique opportunity for researchers to share and discuss their latest findings, trends, and challenges in oral and/or poster sessions. The conference welcomes original, unpublished, and scientific papers in the form of extended abstracts on any topic related to Biological and Applied Sciences, including:

1. Research and Innovation in Biotechnology

Bioinformatics and Biocomputing, Stem cells and cancer research, Tissue engineering, Protein Engineering, Nanobiotechnology, Biofuels and Bio-refineries, Bioremediation, Transgenic technology, Cell signaling technology

2. Systems Biology and Metabolomics

Personalized medicine, Precision Nutrition, Biomarker discovery, novel methods for metabolite profiling, Genomics, Transcriptomics, Proteomics, Lipidomics, Enzyme kinetics, Modelling and Synthetic Biology

3. Microbiome in Sustainable Development

Molecular basis of infectious disease progression, Microbiome in Agriculture & livestock, Bioinformatics and Artificial Intelligence Simulations, Synbiotics, Antimicrobial resistance

4. Innovation in Chemical Sciences

Nanotechnology and Forensic Sciences, Recent advances in thermodynamics, Environmental sustainability, Catalyst and synthesis, Waste water treatment, computational chemistry, Natural products and medicinal Chemistry.

5. Impact of climate change on agriculture production and its sustainable solutions

Climate variability and Yield reduction, Adaptation, Climate and Crop Modeling, Sustainable Agriculture Production, Climate-Smart Agriculture

6. Recent Trends in Sustainable Food Processing & Food Security

Post-Harvest handling in cereal based foods, food processing, preservation and packaging techniques, food safety and quality management systems, food fortification and supplementation, sustainable food products, Nutraceuticals

7. Environmental Biology: Developing the possibilities

Wildlife, Marine Environment, Urban Environment

8. Emerging Trends In Computing

Data Science, Blockchain Technology, Smart cities, Human-centered Computing, Computer Vision, Augmented Reality, Natural Language Processing, Deep Learning, Cyber-physical Systems.

Tutorials and Workshop:

The IBRAS-2024 program comprises several key components. One tutorial is dedicated to Artificial Intelligence, focusing on fundamental AI concepts and tools essential in the Healthcare sector. Another tutorial delves into the intersection of Mathematics and Data Science, specifically highlighting the practical application of Physics-Informed Neural Networks (PINNs), bridging theoretical foundations with real-world cases. Additionally, a hands-on Bioinformatics workshop is designed to offer practical exposure to utilizing bioinformatics tools and techniques for analyzing diverse biological data types—such as DNA, RNA, proteins, and metabolites. These innovative, interdisciplinary domains present numerous applications and challenges within biological research and applied science.

Esteemed experts from Jinnah University for Women will lead the tutorial and workshop, sharing their profound insights and experiences. Participants will gain valuable skills, engage with both instructors and peers, and uncover the potential applications of artificial intelligence and bioinformatics within their respective research domains.

Tutorials:

1. "Artificial Intelligence in Healthcare: Applications and Challenges"

Date: 19th January, 2024 Timings: 10:00 – 12:00 noon

Venue: B-17 Resource Person:

- Prof. Dr. Narmeen Zakaria Bawany (Dean, Faculty of Science, Department of Computer Science and Software Engineering, Jinnah University for Women, Karachi)
- Ms. Surraya Obaid (Department of Computer Science and Software Engineering, Jinnah University for Women, Karachi).

2. "Physics-Informed Neural Networks (PINNs)"

Date: 20th January, 2024 Timings: 10:00 – 2:00 pm

Venue: B-13

Resource Person: Dr. Muhammad Danish Khan (Department of Computer Science and Software

Engineering, Jinnah University for Women, Karachi)

Workshop:

1. Hands-on workshop on "Bioinformatics: Tools and Techniques"

Date: 20th January, 2024 Timings: 10:00 – 3:00 pm

Venue: B-17 Resource Person:

- Ms Ayisha Aman Ullah (Chairperson, Department of Biotechnology, Jinnah University for Women, Karachi)
- Dr. Arshia Tabassum (Assistant Professor, Department of Biochemistry, Jinnah University for Women, Karachi)

CONFERENCE PROGRAM

DAY 1 (JANUARY 23, 2024)	
TIMINGS	SESSIONS
Muhammad Uzair Auditorium 10:30 am	INAUGURAL SESSION OF THE CONFERENCE
10:30 am	Arrival of Guests
10:40 am - 10:50 am	Tilawat-e-Quran National Anthem of Pakistan
10:50 am - 11:00 am	Welcome Address by Ms. Wania Wajeeh Registrar, Jinnah University for Women, Karachi
11:00 am - 11:10 am	Address by Mr. Wajeehuddin Ahmed Chancellor, Jinnah University for Women, Karachi
11:10 am - 11:30 am	Keynote Lecture by Prof. Dr. Zareen Amtul University of Windsor, Canada "Deep Learning uses brain atrophy as cognitive fingerprint to diagnose Pre-clinical Alzheimer's disease."
11:30 am - 11:50 am	Keynote Lecture by Dr. Fahd Haroon Haji Medical Director Karachi X-Rays Diagnostic Centre, Karachi, Pakistan "Importance of Multidisciplinary Meetings and Teamwork in saving lives of Cancer patients."
11:50 am – 12:00 noon	Address by Chief Guest: Prof. Dr. M. Iqbal Afridi HEC DNP (Distinguished National Professor), JSMU/JPMC Dean, Faculty of Psychiatry, College of Physicians and Surgeons Karachi, PAKISTAN
12:00 noon – 12:10 pm	Shields Distribution
Conference Room (B-17) 12:15 pm	SESSION I: IMPACT OF CLIMATE CHANGE ON AGRICULTURE PRODUCTION AND ITS SUSTAINABLE SOLUTIONS Organized by Department of Botany Chair: Prof. Dr. Abdul Matin Dean Faculty of Natural Sciences University of Baltistan, Skardu Co-Chair: Dr. Kishwar Ali University of Doha for Science and Technology, Qatar
12:15 pm - 12:25 pm	Welcome Address by: Dr. Rabia Badar Chairperson, Department of Botany, Jinnah University for Women
12:25 pm – 12:50 pm	Keynote Speaker: Dr. Waseem Ashfaq The University of Melbourne, Australia "Impact of climate change on Agriculture production and its sustainable solutions"

	Invited Speaker: Prof. Dr. Hassan Sher
12:50 pm - 1:15 pm	Vice Chancellor University of Swat Pakistan Khyber Pakhtunkhwa, Pakistan
	"Maximizing Livelihood Opportunities through Introduction of High Value Medicinal Plants in District Swat, Pakistan; Study for Sustainable Development and to meet SDGs"
	Mr. Muhammad Mahran Aslam Nuclear Institute of Agriculture (NIA), Tandojam-Sindh, Pakistan
1:15 pm – 1:30 pm	"Climate-Smart Brassica Cultivar Development through Molecular Marker-Based Selection for Enhanced Food Security"
1:30 pm – 1:45 pm	Mr. Solevo Martin SIBI Planning and Environment Company, Landscaping department, Cotonou, Benin
	"Floristic potentials and their roles in the municipality of Bohicon, Benin"
	Mr. Sohail Ahmed Dr. A. Q. Khan Institute of Biotechnology and Genetic Engineering (KIBGE)
1:45 pm – 2:00 pm	"Investigating the Role of Rhizosphere Chemistry in Wheat Drought Stress: A Metabolomics Study"
2:00 pm – 2:30 pm	Break
	Ms. Manahil Saleem
2:40 pm – 2:55 pm	Department of Botany, Jinnah University for Women, Karachi, Pakistan
	"The impact of salinity on the phytoplankton community of mangrove forest at Sandspit, Karachi"
2:55 pm – 3:10 pm	Q/A Session
	SESSION II: INNOVATION IN CHEMICAL SCIENCES
New Council Room	SESSION II: INNOVATION IN CHEMICAL SCIENCES Organized by Department of Chemistry
New Council Room	Organized by Department of Chemistry Chair: Dr. Haider A. Khwaja
New Council Room 12:15 pm	Organized by Department of Chemistry
	Organized by Department of Chemistry Chair: Dr. Haider A. Khwaja Wadsworth Center, Department of Environmental Health Sciences,
	Organized by Department of Chemistry Chair: Dr. Haider A. Khwaja Wadsworth Center, Department of Environmental Health Sciences, School of Public Health, University of Albany, New York, USA Co-Chair: Prof. Dr. Rubeena Saleem
12:15 pm	Chair: Dr. Haider A. Khwaja Wadsworth Center, Department of Environmental Health Sciences, School of Public Health, University of Albany, New York, USA Co-Chair: Prof. Dr. Rubeena Saleem Department of Chemistry, Jinnah University for Women, Karachi Welcome Address by: Dr. Najma Rasool
12:15 pm	Chair: Dr. Haider A. Khwaja Wadsworth Center, Department of Environmental Health Sciences, School of Public Health, University of Albany, New York, USA Co-Chair: Prof. Dr. Rubeena Saleem Department of Chemistry, Jinnah University for Women, Karachi Welcome Address by: Dr. Najma Rasool Chairperson, Department of Chemistry, Jinnah University for Women Keynote Speaker: Prof. Dr. Jiri Barek
12:15 pm 12:15 pm - 12:25 pm	Chair: Dr. Haider A. Khwaja Wadsworth Center, Department of Environmental Health Sciences, School of Public Health, University of Albany, New York, USA Co-Chair: Prof. Dr. Rubeena Saleem Department of Chemistry, Jinnah University for Women, Karachi Welcome Address by: Dr. Najma Rasool Chairperson, Department of Chemistry, Jinnah University for Women Keynote Speaker: Prof. Dr. Jiri Barek Charles University, Prague, Czech Republic
12:15 pm 12:15 pm - 12:25 pm	Chair: Dr. Haider A. Khwaja Wadsworth Center, Department of Environmental Health Sciences, School of Public Health, University of Albany, New York, USA Co-Chair: Prof. Dr. Rubeena Saleem Department of Chemistry, Jinnah University for Women, Karachi Welcome Address by: Dr. Najma Rasool Chairperson, Department of Chemistry, Jinnah University for Women Keynote Speaker: Prof. Dr. Jiri Barek Charles University, Prague, Czech Republic "Batch Injection Analysis with Novel Electrode Materials Possibilities and Limitations" Keynote Speaker: Dr. Hajira Tahir
12:15 pm 12:15 pm - 12:25 pm 12:25 pm - 12:50 pm	Chair: Dr. Haider A. Khwaja Wadsworth Center, Department of Environmental Health Sciences, School of Public Health, University of Albany, New York, USA Co-Chair: Prof. Dr. Rubeena Saleem Department of Chemistry, Jinnah University for Women, Karachi Welcome Address by: Dr. Najma Rasool Chairperson, Department of Chemistry, Jinnah University for Women Keynote Speaker: Prof. Dr. Jiri Barek Charles University, Prague, Czech Republic "Batch Injection Analysis with Novel Electrode Materials Possibilities and Limitations" Keynote Speaker: Dr. Hajira Tahir Department of Chemistry, University of Karachi, Pakistan "Synthesis of Nanocomposites coupled with Activated Carbon and their application for the removal of Dyes by ultra-sonicated Adsorption Process using Response

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	Invited Speaker: Dr. Haider A. Khwaja
1:40 pm – 2:00 pm	School of Public Health, University of Albany, New York, USA
	"The link between climate change and health: Air pollution"
2:00 pm – 2:30 pm	Break
	Invited Speaker: Dr. Shumaila Kiran
	Department of Applied Chemistry, Government College University,
2:30 pm – 2:50 pm	Faisalabad, Pakistan
2.30 pm – 2.30 pm	
	"Biogenic synthesis and characterization of ZnO nanoparticles for degradation of
	synthetic dyes: A sustainable environmental cleaner approach"
	Invited Speaker: Dr. M. Farooq Wahab
	University of Texas at Arlington, Texas, USA.
2:50 pm - 3:10 pm	"Analytical Chemistry and Sustainable Practices: Use of Sub/Supercritical Carbon
	Dioxide for Separations"
	Ms. Farozan Umer
	Department of Chemistry, Jinnah University for Women
3:10 pm – 3:25 pm	
3.10 pm – 3.23 pm	"Kinetics of Adsorption of Heavy Metal Cu(II) from Aqueous Phase on Modified
	Agricultural Waste"
	Ms. Urooj Shahid
3:25 pm – 3:40 pm	Dow University of Health Sciences, Pakistan
3.23 pm – 3.40 pm	"Sustainable Synthesis of Silver Nanoparticles Using Aloe Vera Gel: Nature's
	Antimicrobial Marvel"
	Mr. Muhammad Ishtiaq Jan
	Kohat University of science and Techology, Kohat, Pakistan
3:40 pm - 3:55 pm	
	"Synthesis of Carbon Dots from Momordica Charantia fruit as a platform for
	Cadmium (II) sensing and antibacterial activity"
	Ms. Saira Kanwal
	U.SPakistan Center for Advanced Studies in Energy USPCASE, National University of Sciences and Technology NUST, Islamabad, Pakistan
3:55 pm – 4:10 pm	of Sciences and Technology (VOST, Islamabad, Taxistan
	"Performance Enhancement of Microbial Fuel Cell by using Ceramic Membrane
	Separator as a Sustainable Solution for Power Production"
4:10 pm – 4:25 pm	Q/A Session
1 1	SESSION III: RECENT TRENDS IN SUSTAINABLE FOOD
	PROCESSING & FOOD SECURITY
Audio Visual Room (A-6)	Organized by Department of Food Science and Technology
Audio Visuai Room (A-0)	
12:15 pm	Chair: Dr. Muhammad Sohaib
	Co-Chair: Obaid ul Hassan
	Welcome Address by:
10.15	Ms Anum Liquat
12:15 pm - 12:25 pm	Chairperson, Department of Food Science and Technology
	Jinnah University for Women
	Keynote Speaker: Dr. Juveria Siddiqui
	Research Associate, Department of Chemical Engineering and Applied Chemistry,
10.0%	University of Toronto, Canada
12:25 pm – 12:50 pm	
	"Enhancing Public Health: Iron and Micronutrients Fortification of Salt - A Promising
	Strategy for Nutritional Improvement"
	Invited Speaker: Dr. Iahtisham-Ul-Haq Assistant Professor, Kauser Abdulla Malik School of Life Sciences,
	Forman Christian College, Lahore, Pakistan
12:50 pm – 1:15 pm	2 of the control of t
	"Evidence based prebiotic effect of jellies enriched with oligosaccharides obtained
	from orange peels"

	Dr. Abeera Moin Department of Food Science and Technology, University of Karachi, Karachi
1:15 pm – 1:30 pm	"Innovation in By-Product Processing: A Comparative Study of Chemically Modified Starches from Two Pakistani Rice Varieties"
	Ms. Qandeel Ansar
1:30 pm – 1:45 pm	Department of Food Science and Technology, Jinnah University for Women, Karachi
Theopin Trie pin	"Development of Nutraceutical Mouthwash by the incorporation of Extract from organic commodities for combatting oral hygiene and mouth care" Ms. Meshal Anwer
1:45 pm – 2:00 pm	Department of Food Science and Technology, Jinnah University for Women, Karachi
	"Innovation to Formation: Development of Organic edible Tape from waste utilization"
2:00 pm – 2:10 pm	Q/A Session
	DAY 2 (JANUARY 24, 2024)
	SESSION IV: EMERGING TRENDS IN COMPUTING
	Organized by Department of Computer Science and Software Engineering
	Chair: Dr. Farah Lakhani Lecturer
Conference Room (B-17)	Queen Mary University of London,
10:00 am	London, England, United Kingdom
	Co-Chair: Dr. Syed Zaffar Qasim
	Assistant Professor
	Department of Computer and Information Systems Engineering NED University of Engineering & Technology
	Karachi, Pakistan
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	Welcome Address by:
10:00 am – 10:10 am	Prof. Dr. Narmeen Zakaria Bawany Department of Computer Science and Software Engineering
	Jinnah University for Women
	Keynote Speaker: Dr. Ahmed Baha
	Microsoft Regional Director, Technical consultant in an Egyptian Microsoft Gold
	Partner (Compu Pharaohs), Vice Dean of Faculty of Computer and AI, Beni-Suef University.
10:10 am to 10:40 am	ISO Advisory Committee Member for ISO JTC1
	"The Age of AI v Next: Navigating the Quantum Frontier"
	Ms. Marium Mateen Department of Computer Science and Software Engineering,
10.40 10.77	Jinnah University for Women, Karachi, Pakistan
10:40 am - 10:55 am	·
	"AdventureFit Explorer - Revolutionizing Children's Fitness using Augmented Reality"
	Ma Cahaali Naaana Ahaad
	Ms. Saboohi Naeem Ahmed Graduate School of Engineering and Information Technology, Hamdard University,
10.55 11.10	Karachi
10:55 am - 11:10 am	
	"Studying the convergence behavior and global exploration capabilities of Sailfish
	Optimizer Algorithm" Ms. Anum Ilyas
	Center for Computing Research
11:10 am - 11:25 am	Department of Computer Science and Software Engineering, Jinnah University for
	Women, Karachi, Pakistan
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Session V: Systems Biology And Metabolomics		"Ensemble approach for Complaint Classification"
SESSION V: SYSTEMS BIOLOGY AND METABOLOMICS Organized by Department of Biochemistry	11:25 am - 11:40 am	Q/A Session
New Council Room 10:00 am 10:00 am 10:00 am Co-Chair: Prof. Dr. Balakrishnan Nair National Institute for Stroke and Applied Neurosciences University of Technology, Auckland, New Zealand Co-Chair: Prof. Dr. Faral Jabeen Department of Biochemistry, Jinnah University for Women, Karachi, Pakistan Welcome Address by: Dr. Aliya Riaz Chairperson, Department of Biochemistry, Jinnah University for Women, Karachi, Pakistan Keynote Speaker: Dr. Benjawan Yamvisetpakdee Faculty of Science and Technology, Songkhla Rajabhat University, Thailand "The significance of metabolomics in systems biology and its application for improving the quality of life" Keynote Speaker: Dr. Imran Ali Southwest University of Science and Technology, Mianyang, China "Harnessing Halophilic Fungi for Sustainable Removal and Disposal of Heavy Metals and Radionuclides: A Promising Solution" Invited Speaker: Dr. Saima Jalil Inran Department of Cardiac Thoracic and Vascular Sciences and Public Health, University of Padua Medical School, Italy "Human induced stem cells (hiPSCs)-derived motor neurons model applied for the study of the arryl hydrocarbon receptor mediated signaling by the induction of environmental pollutant" Invited Speaker: Prof. Dr. Kamran Azim Department of Bioscience, Mohammad Ali Jinnah University, Karachi, Pakistan "Exploring the Oral microbiomes in Health and Disease" Dr. Kashif Ali Associate Professor, SZABIST University, Karachi, Pakistan "Polyphenol identification and characterization of Palatinate German wines according to variety and vintage using NMR spectroscopy and multivariant data analysis" Ms. Areba Khaleeq Agha Khan University, Karachi, Pakistan "Unrevealing nutrition-gut interaction: Integrated human gut organoids with organ on a chip technology" Ms. Saba Jamshed	11.23 um 11.10 um	
Chair: Dr. Balakrishnan Nair National Institute for Stroke and Applied Neurosciences University of Technology, Auckland, New Zealand		SESSION V: SYSTEMS BIOLOGY AND METABOLOMICS
New Council Room 10:00 am Co-Chair: Prof. Dr. Farah Jabeen Department of Biochemistry, Jinnah University for Women, Karachi, Pakistan Welcome Address by: Dr. Aliya Riaz Chairperson, Department of Biochemistry, Jinnah University for Women, Karachi, Pakistan Keynote Speaker: Dr. Benjawan Yanwisetpakdee Faculty of Science and Technology, Songkhla Rajabhat University, Thailand 10:10 am - 10:40 am The significance of metabolomics in systems biology and its application for improving the quality of life? Keynote Speaker: Dr. Imran Ali Southwest University of Science and Technology, Minayang, China "Harnessing Halophilic Fungi for Sustainable Removal and Disposal of Heavy Metals and Radionuclides: A Promising Solution" Invited Speaker: Dr. Saima Jalil Imran Department of Cardiac Thoracic and Vascular Sciences and Public Health, University of Padua Medical School, Italy "Human induced stem cells (hiPSCs)-derived motor neurons model applied for the study of the aryl hydrocarbon receptor mediated signaling by the induction of environmental pollutant" Invited Speaker: Prof. Dr. Kamran Azim Department of Bioscience, Mohammad Ali Jinnah University, Karachi, Pakistan "Exploring the Oral microbiomes in Health and Disease" Dr. Kashif Ali Associate Professor, SZABIST University, Karachi, Pakistan "Polyphenol identification and characterization of Palatinate German wines according to variety and vintage using NMR spectroscopy and multivariant data analysis" Ms. Areeba Khaleeq Agha Khan University, Karachi, Pakistan "Unrevealing nutrition-gut interaction: Integrated human gut organoids with organ on a chip technology" Ms. Saba Jamshed		Organized by Department of Biochemistry
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Department of Biochemistry, Jinnah University for Women, Karachi, Pakistan	New Council Room	Oliversity of Technology, Auckland, New Zealand
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11:30 am - 11:50 am "Exploring the Oral microbiomes in Health and Disease" Dr. Kashif Ali Associate Professor, SZABIST University, Karachi, Pakistan "Polyphenol identification and characterization of Palatinate German wines according to variety and vintage using NMR spectroscopy and multivariant data analysis" Ms. Areeba Khaleeq Agha Khan University, Karachi, Pakistan "Unrevealing nutrition-gut interaction: Integrated human gut organoids with organ on a chip technology" Ms. Saba Jamshed		
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	12:05 pm - 12:20 pm	chip technology"
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Dow University of Health Science, Karachi, Pakistan 12:20 pm - 12:35 pm	12:20 pm - 12:35 pm	Dow University of Health Science, Karachi, Pakistan
		"Honey mediated green synthesis of silver nanoparticles to combat against pathogenic
bacteria" Ms. Aisha Bibi	12:35 nm - 12:50 nm	Department of Biochemistry,
bacteria" Ms. Aisha Bibi Department of Biochemistry,	12.35 pm 12.50 pm	Jinnah University for Women, Karachi, Pakistan
bacteria"	12:35 pm - 12:50 pm	Department of Biochemistry,
bacteria" Ms. Aisha Bibi Department of Biochemistry,		Jinnan University for Women, Karachi, Pakistan

	"Sustainable Bioplastic Manufacturing: Unleashing Microbial Metabolites using Agricultural waste"
12:50 pm – 1:05 pm	Q/A Session
	SESSION VI: RESEARCH AND INNOVATION IN BIOTECHNOLOGY Organized by Department of Biotechnology
Audio Visual Room (A-6)	Chair: Prof. Dr. Afsheen Aman Dr. A. Q. Khan Institute of Biotechnology and Genetic Engineering (KIBGE), University of Karachi, PAKISTAN
10:00 am	Co-Chair: Dr. Rukhsana Nawaz Department of Clinical Psychology, College of Medicine and Health Sciences, United Arab Emirates University, UAE
10:00 am - 10:10 am	Welcome Address by: Ms. Ayisha Aman Ullah Chairperson, Department of Biotechnology, Jinnah University for Women
10:10 am - 10:40 am	Keynote Speaker: Dr. Mariusz Mojzych Siedlce University of Natural Sciences and Humanities, Poland "Synthesis of pyrazolo[4,3-e][1,2,4]triazine sulfonamides, novel Sildenafil analogues with tyrosinase inhibitory activity"
10:40 am - 11:00 am	Invited Speaker: Dr. Katarzyna Monika Kotwica-Mojzych Medical University of Lublin, Poland
11:00 am - 11:20 am	"Expression of Surface Molecules in Hematological Malignancies" Invited Speaker: Dr. Muhammad Ismail Chief Scientific Officer, Institute of Biomedical and Genetic Engineering (IBGE), Islamabad "Nanomedicine: Simple Scraps to High Throughput Medical Therapy"
11:20 am – 11:35 am	Dr. Urooj Javed Dow College of Biotechnology, Dow University of Health and Sciences "Green synthesis of silver nanoparticles from bitter gourd peels waste: an
	ecofriendly approach to utilize food waste" Ms. Arifa Latif Dr. A. Q. Khan Institute of Biotechnology and Genetic Engineering (KIBGE), University of Karachi
11:35 am - 11:50 am	"Carbonic Anhydrase IX Gene Polymorphism Association with Susceptibility to Gastric Cancer"
	Ms. Summayya Asghar Department of Biochemistry, Shaheed Benazir Bhutto Women University (SBBWU), Peshawar, Pakistan.
11:50 am - 12:05 pm	"Optimization of production conditions for α-amylase as an important biodesizing agent"
12:05 pm - 12:20 pm	Ms. Misbah Habib Department of Biotechnology, University of Karachi, Pakistan.
10.00	"Production and optimization of lipase enzyme through solid State fermentation, by brown molds, using cotton seed cake."
12:20 pm - 12:35 pm	Q/A Session

	SESSION VII: ENVIRONMENTAL BIOLOGY: DEVELOPING THE POSSIBILITIES
	Organized by Department of Zoology
Audio Visual Room (A-6)	Chair: Dr. Muhammad Ismail Chief Scientific Officer
10:00 am	Institute of Biomedical and Genetic Engineering (IBGE)
	Co-Chair: Prof. Dr. Rana Hadi
	Chairperson
	Department of Zoology Jinnah University for Women
10.00 10.10	Welcome Address by:
10:00 am - 10:10 am	Prof. Dr. Rana Hadi Chairperson, Department of Zoology, Jinnah University for Women
	Keynote Speaker: Prof. Dr. Tooraj Valinassab
	Director General, Academic Relations and International Affairs
10:10 am - 10:40 am	Agriculture Research, Education and Extension Organization, Iran
10.10 am - 10.40 am	"The marine Ecosystem of the Persian Gulf is undercritical
	environmental condition and destruction"
	Ms. Faiza Zubair
10:40 am - 10:55 am	Department of Zoology, University of Sargodha, Punjab, Pakistan
	"Anti-bacterial efficacy of Cinnamomum Cassia & Moringa Oleifera"
	Mr. Mazahir Hussain
10:55 am - 11:10 am	PCSIR Laboratories Complex, Karachi, Pakistan
10.33 um 11.10 um	"Trichoderma asperellum MMR-01: A Novel Marine Isolate Combating Fusarium Wilt in Banana Plants"
	Ms. Abraira
11:10 am - 11:25 am	Centre of Excellence in Marine Biology, University of Karachi
11110 um 111.20 um	"Biochemical Characterization of some Marine Biomaterials: Unlocking the Potential of Shrimp Shells, and Fish Scales for Sustainable Applications"
	Ms. Noor us Sehar
11:25 am – 11:40 am	Centre of Excellence in Marine Biology, University of Karachi
11.23 am - 11.40 am	"Distribution and diversity of diatoms with relation to the type of microplastics in sonmiani bay waters, Pakistan"
	Ms. Najam us Saher
11:40 am – 11:55 am	Centre of Excellence in Marine Biology, University of Karachi
11.10 um 11.33 um	"Assessment of Fish export's impact on economic growth:(A comparision between Pakistanand Balgladesh)"
	Ms. Sana Baloch
11:55 am – 12:10 pm	Centre of Excellence in Marine Biology, University of Karachi "Morphological comparison of otolith of two species of family Platycephalidae"
	Mr. Muhammad Tabish
12:10 12:25	Centre of Excellence in Marine Biology, University of Karachi
12:10 pm – 12:25 pm	"Seasonal Quantification of Protein in Nematalosa nasus (Clupeidae) in Coastal Waters of Pakistan"
	Ms. Rabiya Nasir
12:25 pm – 12:40 pm	Centre of Excellence in Marine Biology, University of Karachi
	"Elasmobranch species recorded at Karachi Fish harbor during thebaseline surveys (2014-2023); a review of several biological elements with a few public attribute trends"
12:40 nm 12:55 nm	Mr. Abdul Hameed
12:40 pm – 12:55 pm	Centre of Excellence in Marine Biology, University of Karachi

	"Seasonal variations in the biochemical composition of <i>Johnius Amblycephalus</i> (family:
	Scianidae) and implications for nutritional assessment and food preservation"
12:55 pm – 1:10 pm	Q/A Session
	SESSION VIII: MICROBIOME IN SUSTAINABLE DEVELOPMENT
	Organized by Department of Microbiology
New Council Room 10:00 am	Chair: Prof. Dr Ghulam Asghar Maka Ex Director Institute of Microbiology, Sindh University Jamshoro, Pakistan
	Co-Chair: Prof. Dr Sayyada Ghufrana Nadeem Department of Microbiology, Jinnah University for Women, Karachi, Pakistan
10:00 am - 10:10 am	Welcome Address by: Prof. Dr. Mahmooda Kazmi Chairperson, Department of Microbiology, Jinnah University for Women
10:10 am to 10:40 am	Keynote Speaker: Prof. Dr. Aqeel Ahmad Dean, Faculty of Science Salim Habib University, Karachi.
	"Chronic Inflammation"
	Keynote Speaker: Dr. Amber Farooqui Lab Director, Omega Laboratories Inc. Canada
10:40 am - 11:00 am	"Functional Impairments in Multiple Organ Systems in A Mouse Model of Severe Malnutrition"
11:00 am - 11:15 am	Ms. Safia Nazir Department of Microbiology, Jinnah University for Women, Karachi, Pakistan
11.00 am - 11.13 am	"Targeting the MDR <i>P.aeruginosa</i> Biofilm Formation with Drug-Nanoparticle Conjugates; An Insight into Variation at Gene Level"
11:15 am - 11:30 am	Ms. Mahvish Noorian Department of Microbiology, University of Karachi, Pakistan
11.13 am - 11.30 am	"Chilling Challenges: Unveiling Microbial Dynamics and Risk Profiling in Household Refrigerators"
11:30 am – 11:45 am	Ms. Sania Taj Dow University of Health Sciences, Karachi, Pakistan
11.30 am = 11.43 am	"Banana Peel Waste Assisted Green Synthesis of Silver Nanoparticles For Their Antimicrobial Applications"
11:45 am – 12:00 noon	Ms. Saba Nazeer Department of Microbiology, Jinnah University for Women, Karachi, Pakistan
11.75 am = 12.00 noon	"Combination Therapy for MRSA Super Bugs: Biofilm Targeted Drug Loaded Nanoparticles as a New Approach for Difficult-to-Treat Infections"
12:00 noon – 12:15 pm	Q/A Session
Muhammad Uzair Auditorium 1:00 pm	CLOSING CEREMONY
1:00 pm – 1:10 pm	Welcome Address by: Ms. Waniya Wajeeh Registrar, Jinnah University for Women, Karachi
1:10 pm – 1:20 pm	Address by Mr. Wajechuddin Ahmed Chancellor, Jinnah University for Women, Karachi

	Address by Chief Guest:
	Prof. Dr. Farhan Essa Abdullah
1:20 pm – 1:30 pm	Chief Executive Officer
	Dr. Essa Laboratory
	Karachi, PAKISTAN
	Vote of Thanks by Conference Chair:
1:30 pm – 1:40 pm	Prof. Dr. Narmeen Zakaria Bawany
	Dean, Faculty of Science
	Jinnah University for Women, Karachi, Pakistan
1:40 pm – 1:50 pm	Shields Distribution