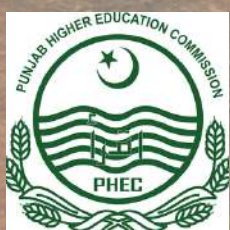
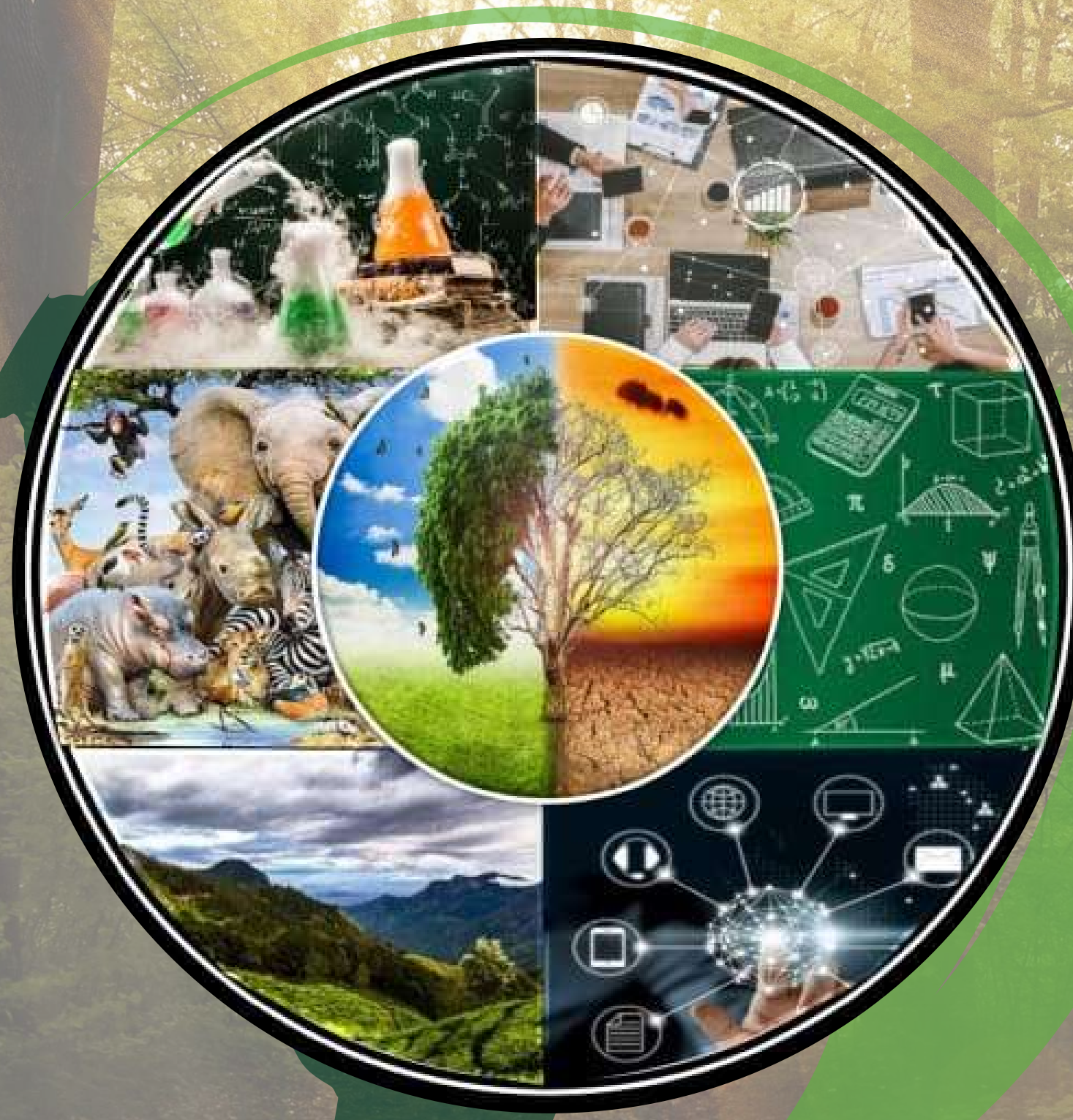


PROGRAM BOOKLET



1st International Conference on REVAMPED SCIENTIFIC OUTLOOK OF 21ST CENTURY 12th October, 2022



PROGRAM

08:00 am - 08:30 am	Registrations
08:30 am - 08:45 am	Guests to be seated
08:45 am - 09:00 am	Arrival of Chief Guest
09:00 am - 10:30 am	Inaugural session
09:00 am - 09:05 am	Recitation of Holy Quran
09:05 am - 09:10 am	National Anthem
09:10 am - 09:20 am	Welcome Address by: Prof. Dr. Anila Kamal Vice Chancellor, Rawalpindi Women University, Rawalpindi
09:20 am - 09:30 am	Keynote Address: Prof. Dr. Safia Ahmed (TI) Vice Chancellor, Shaheed Benazir Bhutto Women University, Peshawar
09:30 am - 09:40 am	Keynote Address: Prof. Dr. Zabta Khan Shinwari (TI, SI) UNESCO Laureate
09:40 am - 09:50 am	Address by: Prof. Dr. Akram Sheikh, DG Pakistan Scientific and Technological Information Centre (PASTIC)
09:50 am - 10:00 am	Remarks by: Prof. Dr. Shahid Mahmood Baig Chairman, Pakistan Science Foundation (PSF)
10:00 am - 10:10 am	Remarks by Chief Guest: Prof. Dr. Masoom Yasinzai (SI) Rector, International Islamic University, Islamabad
10:10 am - 10:20 am	Shields Distributions
10:20 am - 10:25 am	Group Photo
10:25 am - 11:00 am	Tea Break
11:00 am - 01:00 pm	Parallel Sessions Session Ia: Botany (Fatima Hall) Session Ib: Botany (CR201-Block A) Session Ic: Chemistry (Webinar Room-Sheikh Rasheed Block) Session Id: Mathematics (Room 303-Sheikh Rasheed Block) Session Ie: Zoology (Room 403-Sheikh Rasheed Block)
11:00 am - 12:30 pm	Posters Display Botany (Corridor-Block A) Chemistry (Gallery- Sheikh Rasheed Block) Zoology (Gallery 4th Floor- Sheikh Rasheed Block)
01:00 pm - 02:00 pm	Lunch & Namaz Break
02:00 pm - 04:00 pm	Parallel Sessions Session IIa: Botany (Fatima Hall) Session IIb: Chemistry (Webinar Room-Sheikh Rasheed Block) Session IIc: Mathematics (Room 303-Sheikh Rasheed Block) Session IId: Zoology (Room 403-Sheikh Rasheed Block)
04:00 pm - 05:00 pm	Concluding Ceremony
04:00 pm - 04:15 pm	Concluding Remarks by: Prof. Dr. Habib Bokhari Vice Chancellor, Kohsar University, Murree
04:15 pm - 04:30 pm	Note of thanks by Chief Organizer: Prof. Dr. Anila Kamal Vice Chancellor, Rawalpindi Women University, Rawalpindi
04:30 pm - 04:45 pm	Shields Distribution
04:45 pm - 05:00 pm	Tea for distinguished guests

Session Ia: Botany (Fatima Hall)
Themes: Microbiology, Biotechnology, Biocontrol, & Medicinal Plants
Time: 11:00 am – 01:00 pm

CHAIR	
Dr. Muhammad Ramzan Khan	Principal Scientific Officer National Institute for genomics & Advanced Biotechnology (NIGAB)
CO-CHAIR	
Prof. Dr. Muhammad Qasim Hayat	Department of Plant Biotechnology, Atta-ur-Rahman School of Applied Biosciences, NUST

TIME	KEYNOTE TALKS
11:00 am -11:19 am	Preparing Energetic Herbarium (and other Museum) Specimens <i>Prof. Dr. Mary Barkworth (Utah State University, USA)</i>
11:19 am-11:34 am	A Drift-Barrier Model Drives the Genomic Landscape of a Structured Bacterial Population <i>Prof. Dr. Gisèle Bronner (University Clermont Auvergne, France)</i>

TIME	ORAL PRESENTATIONS
11:34 am-11:43 am	Assessment of Bioactive Metabolites for Antimicrobial and Antioxidant Activity using Indigenous Green Microalgae <i>Zahra, S., & Ali, M. I. (Quaid-i-Azam University, Islamabad)</i>
11:43 am-11:52 am	Iron Oxide Nanoparticles can Improve the Growth of Peanut by Increasing Root Reduce Capacity Under Iron Deficiency Stress <i>Ali, H., Akhtar, S., Nayab, D., & Bangesh, N. (University of Gujrat, Gujrat)</i>
11:52 am-12:01 pm	Cytotoxic and Antimicrobial Efficacy of <i>Alhagi maurorum</i> <i>Gilani, S., Bibi, Y., & Afzal, T. (PMAS Arid Agriculture University, Rawalpindi)</i>
12:01 pm-12:10 pm	Conventional Folk Recipes and Ethnomedicinal Assessment of Shrubs in Tehsil Khairpur Tamewali, Punjab, Pakistan <i>Anwar, T., Asif, K., Qureshi, H., & Jamil, M. (The Islamia University of Bahawalpur)</i>
12:10 am-12:19 pm	Nickel stress on <i>Vigna radiata</i> and its Combat by using Plant Extracts <i>Akhtar, S., Shafqat, A., & Siddique, A. (Minhaj University, Lahore)</i>
12:19 pm-12:28 pm	To Mitigate the Adverse effects of Lead acetate on Brown Mustard (<i>Brassica juncea</i> L.) by Foliar application of EDTA <i>Saman, R. U. (Agriculture University Faisalabad)</i>
12:27 pm-12:36 pm	<i>Pseudocaryopteris foetida</i>- A Potential Candidate Against Microbial Warfare <i>Afzal, T. Bibi, Y., Gilani, S. S., & Jabeen, A. (PMAS Arid Agriculture University, Rawalpindi)</i>
12:36 pm-01:00 pm	Q & A Session Session Concluding Remarks by Session Chair and Co-Chair Shields and Certificates Distribution

Session Ib Botany (CR201-Block A)
**Themes: Forestry, Plant Pathology, Plant Ecology, &
 Systematics**
Time: 11:00 am – 01:00 pm

CHAIR

Prof. Dr. Azra Yasmin

Chairperson / Dean
 Department of Biotechnology
 Fatima Jinnah Women University
 Rawalpindi

CO-CHAIR

Dr. Noshin Ilyas

Associate Professor
 Department of Botany
 PMAS Arid Agriculture University
 Rawalpindi

TIME	KEYNOTE TALK
11:00 am - 11:14 am	Salicylic Acid and <i>Cinnamomum verum</i> Enhance Resistance against <i>Penicillium</i> Rot of <i>Citrus reticulata</i> Blanco by Modulating the Expression of Defense Related Genes <i>Prof. Dr. Muhammad Naveed Aslam (The Islamia University of Bahawalpur)</i>

TIME	ORAL PRESENTATIONS
11:14 am - 11:24 am	Morphological and Physico-chemical Changes Induced by Phytoplasma infection in <i>Brassica napus</i> Plant <i>Tanwir, S., Yaseen, S., & Ahmad, J. N. (University of Agriculture, Faisalabad)</i>
11:24 am - 11:34 am	Indigenous Utilization of Flora for Treating Cardiovascular Disorder by Local Community from Pattoki District Kasur <i>Shaheen, M., Harun, N., Arshad, F., Fatima, K., Shaheen, D., & Waheed, M. (University of Okara, Okara)</i>
11:34 am - 11:44 am	Identification and Diversification of Mobile Genetic Elements in Various Plants Genomes <i>Nouroz, F., Noreen, S., & Harisson, J. S. P. H. (Hazara University, Mansehra)</i>
11:44 am - 11:54 am	Exploring Physical Characterization and Different bio-applications of <i>Elaeagnus angustifolia</i> flora based nickel oxide nanoparticles <i>Abbasi, B. A., Iqbal, J., Yaseen, T., Rehman, S., Kanwal, S., & Mehmood, T. (Rawalpindi Women University, Rawalpindi)</i>
11:54 am - 12:04pm	Fuelwood Consumption Pattern and its Impacts on Forest Structure in District Bagh, Azad Jammu and Kashmir <i>Azad, B. (University of Azad Jammu and Kashmir)</i>
12:04 pm - 12:14 pm	Comparative Studies on Antibacterial and Antifungal activities of Silver Nanoparticles synthesized by using Mint (<i>Mentha arvensis</i>) and Neem (<i>Azadirachta indica</i>) Leaves Extract <i>Saeed, J., Shahzadi, A., & Ashraf, M. A. (University of Lahore)</i>
12:14 pm - 12:24 pm	Tissue Culture Optimization of <i>Fritillaria cirrhosa</i> D. Don Medicinal Plant from Azad Jammu and Kashmir <i>Akhtar, W., & Talib, S. (University of Azad Jammu and Kashmir)</i>
12:24 pm - 12:34 pm	Digital Disease Mapping of Citrus Canker from Selected Citrus Orchards in Pothowar <i>Mehmood, A., Irshad, G., Zaman, Q., Raja, M.U., Zafar, N., & Akbar, T. (PMAS Arid Agriculture University, Rawalpindi)</i>
12:34 pm - 01:00 pm	Q & A Session Session Concluding Remarks by Session Chair and Co-Chair Shields and Certificates Distribution

Session Ic Chemistry (Webinar Room-Sheikh Rasheed Block)
 Themes: Nanomaterials, Photocatalysis, Electrochemistry, &
 Renewable Energies
 Time: 11:00 am – 01:00 pm

CHAIRS

Prof. Dr. Humaira Masood Siddiqi

Department of Chemistry
 Quaid-i-Azam University
 Islamabad

Prof. Dr. Sher Jamal Khan

Institute of Environmental Science and
 Engineering
 National University of Science and
 Technology (NUST)

TIME	KEYNOTE TALKS
11:00 am -11:30 am	On the Road to Computer Aided Drug Designing- A Travelogue <i>Prof. Dr. Farzana Latif Ansari (Quaid-i-Azam University, Islamabad)</i>
11:30 am -11:43 am	The Power of Chemistry: Some Personal Experiences <i>Prof. Dr. Jahangir Mirza (York University, Toronto, Ont, Canada)</i>

TIME	ORAL PRESENTATIONS
11:43 am-11:51 am	Development of an Ultra-Sensitive Enzyme-based Electrochemical Sensor for Urea Detection <i>Rafiq, K., & Hussain, E. (The Islamia University of Bahawalpur-Bahawalnagar Campus)</i>
11:51 am - 11:59 pm	Development of Pd/Ba Nanoparticles (Pd/Ba-NPs@TiO₂) for Photocatalytic H₂ Generation from Water Splitting <i>Hussain, E., & Rafiq, K. (The Islamia University of Bahawalpur-Bahawalnagar Campus)</i>
11:59 am - 12:07 pm	Chromium (VI) Sorption by Layered Material <i>Faheem, L., Memon, S. Q., & Kazi, M. A. (University of Sindh, Jamshoro)</i>
12:07 pm -12:15 pm	Mechanically Robust and Highly Elastic Thermally Induced Shape Memory Polyurethane Based Composites for Smart and Sustainable Robotic Applications <i>Ahmad, N. (Hazara University, Mansehra)</i>
12:15 pm -12:23 pm	Controlled synthesis of Co and Cu co-doped CdS@Phosphorous Doped g-C₃N₄ heterostructures <i>Khurshid, H., & Aamir, M. (Mirpur University of Science and Technology (MUST), Mirpur)</i>
12:23 pm - 12:31 pm	Synthesis of Metal Halide Perovskites for Tunable Optical Properties <i>Nayab, F., & Aamir, M. (Mirpur University of Science and Technology, Mirpur)</i>
12:31 pm - 12:39 pm	Turn-on Fluorescent Pyrene-based Probe for Highly Selective Detection of Trace Cr(III) in Aqueous Media for Live Cell imaging <i>Rasheed, L. (University of Education, Attock Campus)</i>
12:39 pm -12:47 pm	Metal Halide Perovskites for Energy Conversion Applications <i>Aamir, M. (Mirpur University of Science and Technology, Mirpur)</i>
12:47 pm - 01:00 pm	Q & A Session Session Concluding Remarks by Session Chairs Shields and Certificates Distribution

Session Id: Mathematics (Room 303-Sheikh Rasheed Block)
 Themes: Fluid Dynamics, Computational Mathematics, Modeling & Simulations
 Time: 11:00 am – 01:00 pm

CHAIR

Prof. Dr. Tasawar Hayat

National Distinguished Professor
 Department of Mathematics
 Quaid-i-Azam University,
 Islamabad.

CO-CHAIR

Dr. Ahmed Zeeshan

Associate Professor
 Department of Mathematics
 International Islamic University,
 Islamabad

TIME	KEYNOTE TALKS
11:00 am-11:15 am	Fundamental of Phase-field Models with its Applications in Science and Engineering <i>Prof. Dr. Abdullah Shah (COMSATS University, Islamabad)</i>

TIME	ORAL PRESENTATIONS
11:15 am-11:30 am	Multi Objective Convex Separable Programing and its Application to Portfolio Optimization Problem in Capital Market Structure <i>Shah, S., & Khan, I. U. (COMSATS University, Abbottabad)</i>
11:30 am-11:45 am	Transmission and Reflection of SV Waves at Micropolar Solid–liquid Interface with Dual-phase Lag Theory <i>Khan, A. A., & Tanveer, S. (International Islamic University, Islamabad)</i>
11:45 am-12:00 pm	One-dimensional Optimal System of Lie Sub-Algebra and Analytic Solutions for a Liquid Film Fluid Flow <i>Jamil, B. (Allama Iqbal Open University, Islamabad)</i>
12:00 pm-12:15 pm	Subdomain Method for Solving Non-integer Order Differential and Integrodifferential Equations <i>Hussain, M., & Ahmed, N. (HITEC University, Wah Cant)</i>
12:15 pm-12:30 pm	Thermo-fluidic Impact in Power Law Rheology with Mass Diffusion and Thermal Rates Including Hybrid Nanoparticles Simulated by Finite Element Approach <i>Saleem, S. (King Khalid University, Kingdom of Saudi Arabia)</i>
12:30 pm-01:00 pm	Q & A Session Session Concluding Remarks by Session Chair and Co-Chair Shields and Certificates Distribution

Session Ie: Zoology (Room 403-Sheikh Rasheed Block)
Themes: Microbiology, Environmental Biology, Marine Biology, & Genetics
Time: 11:00 am – 01:00 pm

CHAIR

Prof. Dr. Fariha Hasan

Professor
 Department of Microbiology,
 Quaid-i-Azam University, Islamabad.

CO-CHAIR

Dr. Naveeda Akhtar

Associate Professor
 Department of Zoology
 Quaid-i-Azam University, Islamabad

TIME	KEYNOTE TALKS
11:00 am - 11:15 am	Sperm Cryopreservation: Opportunities and Challenges for Zoologists <i>Prof. Dr. Shamim Akhtar. (PMAS Arid Agricultural University, Rawalpindi)</i>
11:50 am - 11:30 am	Biodegradation of Plastics: An Ecofriendly Waste Management Approach <i>Prof. Dr. Muhammad Ishtiaq Ali. (Quaid-i-Azam University, Islamabad)</i>

TIME	ORAL PRESENTATIONS
11:30 am - 11:40 am	Distribution and Diversity Analysis of Finfish Species of <i>Platycephalidae</i> (flatheads) from Sonmiani Lagoon Waters Balochistan, Pakistan <i>Hawa, N., & Saher, N. U. (University of Karachi, Karachi)</i>
11:40 am - 11:50 am	Shell Morphometry of Barnacles Species <i>Chirona (Striatobalanus) Amaryllis</i> (Darwin, 1854) Collected from Sonmiani Beach Balochistan, Pakistan <i>Nasir, A., & Saher, N. U. (University of Karachi, Karachi)</i>
11:50 am - 12:00 pm	Seasonal Variations in Microplastic Distribution in Sediments of Sandspit Backwaters Mangroves Area Karachi <i>Shahwar, D. E., Ali, M., & Saher, N. U. (University of Karachi, Karachi)</i>
12:00 pm - 12:10 pm	A Study on the Distribution and Shapes of Ossicles in the Muscles of <i>Thymiosycia Arenicola</i> (Holothuria: Echinodermata) Found along the Coast of Pakistan <i>Ashfaq, N., & Saher, N. U. (University of Karachi, Karachi)</i>
12:10 pm - 12:20 pm	Genetic Structure and Population Frequency Distribution in the Genus <i>Metapenaeus</i> Sp. (Penaeidae; Crustacea) Based on Isozyme Analysis <i>Saher, N. U., & Noor, S. H. (University of Karachi, Karachi)</i>
12:20 pm - 12:30 pm	A Novel Metabarcoded 18S Ribosomal DNA Sequencing Tool for the Detection of <i>Plasmodium</i> Species in Malaria Positive Patients <i>Wahab, A., Hussain, M., & Khan, T.A. (Kohat University of Science and Technology, Kohat)</i>
12:30 pm - 12:40 pm	Genomic Characterization of ABC Transporter Gene Family in <i>Tilapia</i> Fish <i>Mehboob, M., Hassan, F. U., & Rehman, M. S. U. (University of Agriculture Faisalabad)</i>
12:40 pm - 01:00 pm	Q & A Session Session Concluding Remarks by Session Chair and Co-Chair Shields and Certificates Distribution

Session IIa: Botany (Fatima Hall)
Themes: Plant Pathology, Tissue culture, Biotechnology, & Ethnobotany
Time: 02:00 pm – 04:00 pm

CHAIR

Prof. Dr. Abida Akram | Chairperson
 Department of Botany
 PMAS Arid Agriculture University,
 Rawalpindi

CO-CHAIRS

Dr. Hassan Waseem | Associate Professor / Pro-Vice Chancellor
 MY University, Islamabad

Dr. Faisal Nouroz | Head / Associate Professor
 Department of Bioinformatics
 Hazara University, Mansehra

TIME	KEYNOTE TALKS
02:00 pm - 02:15 pm	Sustainable Use of Plant Biodiversity for Food, Health, and Energy Security in Pakistan <i>Prof. Dr. Mushtaq Ahmad (Quaid-i-Azam University, Islamabad)</i>

TIME	ORAL PRESENTATIONS
02:15 pm - 02:25 pm	Microbiome Engineering and Soil Amendments for Sustainable Crop Improvement under Climatic change Scenario <i>Ilyas, N. (PMAS Arid Agriculture University, Islamabad)</i>
02:25 pm - 02:35 pm	Antioxidant and Antibacterial Activities of Plants used for Making Herbal Teas in District Haveli, Azad Kashmir, Pakistan <i>Shafi, H., & Mehmood, A. (University of Poonch Rawalakot, Azad Kashmir)</i>
02:35 pm - 02:45 pm	Current Trends in Ethnobotany and Antifungal profile of Selected Ethnomedicinal Plants of Tanawal area of Pakistan <i>Bibi, F., Haroon, N., Nasir, M., & Kausar, R. (Rawalpindi Women University, Rawalpindi)</i>
02:45 pm - 02:55 pm	Curtaining Heavy Nitrogen Use by Integrated Nutrients Management Approach <i>Khan, R. A., Haider, S. I., Hayat, S., Hameed, A., & Ahmed, A. (National Agricultural Research Centre, Islamabad)</i>
02:55 pm - 03:05 pm	Characterization of <i>Pythium</i> and <i>Phytophthora</i> species associated with chili in the Pothwar Region of Pakistan <i>Mukhtar, T. (PMAS Arid Agriculture University, Rawalpindi)</i>
03:05 pm - 03:15 pm	Impact Assessment of Overgrazing Practices on the Socio- Economic Wellbeing of Rural Communities in Southern Punjab, Pakistan <i>Nazir, S., & Mehboob, S. (University of Agriculture Faisalabad, Sub Campus Burewala)</i>
03:15 pm - 03:25 pm	Evaluation Of Anatomical Diversity Among Some Selected Species of Family Apocynaceae: An Experimental and <i>In Silico</i> Approach <i>Shaheen, S., Naveed, Z., Khalid, S., Sonia, R., & Hanif, U. (Lahore College for Women University, Lahore)</i>
03:25 pm - 03:35 pm	Control of <i>Parthenium hysterophorus</i> by Aqueous Extract of <i>Anagalus arvensis</i> <i>Jabeen, N., Marium, R., & Javaid, A. (Minhaj University, Lahore)</i>
03:35 pm - 04:00 pm	Q & A Session Session Concluding Remarks by Session Chair and Co-Chair Shields and Certificates Distribution

Session IIb: Chemistry (Webinar Room-Sheikh Rasheed Block)
Themes: Environmental Chemistry, Medicinal/Organic Chemistry, & Biomedical Applications
Time: 02:00 pm – 04:00 pm

CHAIR

Prof. Dr. Naveed Janjua

Department of Chemistry
 Quaid-i-Azam University Islamabad

CO-CHAIR

Dr. Safeer Ahmed

Department of Chemistry
 Quaid-i-Azam University Islamabad

TIME	KEYNOTE TALKS
02:00 pm -02:15 pm	Mxenes as Versatile Materials for Energy applications <i>Prof. Dr. Mudassir Iqbal. (National University of Sciences and Technology, Islamabad)</i>

TIME	ORAL PRESENTATIONS
02:15 pm - 02:25 pm	Photoelectrochemical studies of PbO-ZnO Composite Thin Films Developed from {ZnPb(OAc)(TFA)₃(THF)₂}_n Complex by AACVD for Water Splitting <i>Batool, M., Gill, R., Munawar, K., & Mazhar, M. (Fatima Jinnah Women University, Rawalpindi)</i>
02:25 pm -02:35pm	Low Temperature, Solution Processed Spinel NiCo₂O₄ Nanoparticles as Efficient Hole Transporting Material for Mesoscopic n-i-p Perovskite Solar Cells <i>Bashir, A. (Fatima Jinnah Women University, Rawalpindi)</i>
02:35 pm -02:45 pm	Cellulose Based Hydrogels for Tissue Engineering Applications <i>Nazir, F. & Iqbal, M. (Department of Chemistry, School of Natural Sciences, NUST, Islamabad)</i>
02:45 pm -02:55 pm	In vitro Evaluation of Phthalimideoxadiazole –Benzenesulfonamide Conjugates as Inhibitors of Dengue Virus Protease <i>Khan, B.A., & Hamdani, S. S. (University of Azad Jammu and Kashmir)</i>
02:55 pm -03:10 pm	Synthesis, Characterization, In vitro Tissue-Nonspecific and Intestinal Alkaline Phosphatase Inhibition Assay as well as Docking Evaluation of 1,3-Thiazoles <i>Aziz, H., & Bhatti, A. S. (Rawalpindi Women University, Rawalpindi)</i>
03:10 pm -03:20 pm	Synthesis, Characterization and Mechanical Properties of Nacre Inspired Flame Retardant Multilayered coatings <i>Batool, S., Gill, R., & Yuan, H. (Rawalpindi Women University, Rawalpindi)</i>
03:20 pm -03:30 pm	One pot multicomponent synthesis of symmetrical bis-imidazole derivatives and their biological applications <i>Rafique, H., & Shehzadi, G. (University of Gujrat, Gujrat)</i>
03:30 pm -03:40 pm	Albumin Binding and Anticancer Studies of trimethyl-, tributyl- and triphenylstannyl derivatives of Sodium deoxycholate <i>Shaheen, F., Ali, S., & Tahira, M.N. (Allama Iqbal Open University, Islamabad)</i>
03:40 pm -03:50 pm	Fabrication of Molecular Imprinted Polymer based Sensors for the Early Detection of Lung Cancer Biomarkers <i>Asghar, N., & Mustafa, G. (The Rawalpindi Women University, Rawalpindi)</i>
03:50 pm- 04:00 pm	Q & A Session Session Concluding Remarks by Session Chair and Co-Chair Shields and Certificates Distribution

Session IIc: Mathematics (Room 303-Sheikh Rasheed Block)
Themes: Numerical Analysis, Fluid Dynamics, & Mathematical Biology
Time: 02:00 pm – 04:00 pm

CHAIR

Prof. Dr. Sohail Nadeem

Professor
 Department of Mathematics
 Quaid-i-Azam University, Islamabad

CO-CHAIR

Dr. Hina Sadaf

Assistant Professor
 Department of Basic sciences & Humanities,
 College of E & ME
 National University of Sciences and Technology,
 Islamabad

TIME	KEYNOTE TALK
02:00 pm - 02:15 pm	Modeling and Simulation in Process Engineering and Computational Fluid Dynamic <i>Prof. Dr. Shamsul Qamar (COMSATS University, Islamabad)</i>

TIME	ORAL PRESENTATIONS
02:15 pm-02:30 pm	Multiple Solutions with Cattaneo-Christov Double Diffusion Model of Carreau Fluid Flow <i>Sardar, H., Khan, M., & Subhani, M. (Rawalpindi Women University, Rawalpindi)</i>
02:30 pm-02:45 pm	Cross Fluid Model Impact on Peristaltic Motion in the Presence of MHD and Viscous Dissipation Effects <i>Sadaf, H., & Ijaz, S. (National University of Sciences and Technology, Islamabad)</i>
02:45 pm-03:00 pm	Mixed Convective Flow of Jeffrey Nanofluid Over an Inclined Stretching Sheet <i>Malik, R., & Siddiqua, A. (International Islamic University, Islamabad)</i>
03:00 pm-03:15 pm	Analysis of Sensitivity of Thermal Conductivity and Variable Viscosity on Wall Heat Flux in Flow of Casson Fluid over a Wedge <i>Zeeshan, A., Hussain, D., & Asghar, Z. (International Islamic University, Islamabad)</i>
03:15 pm-03:30 pm	Slip Flow of Couple-Stress Casson Fluid with Cattaneo-Christov Heat Flux Model <i>Bibi, H., Rana, S., & Mehmood, R. (University of Wah, Wah)</i>
03:30 pm - 04:00 pm	Q & A Session Session Concluding Remarks by Session Chair and Co-Chair Shields and Certificates Distribution

Session IIId: Zoology (Room 403-Sheikh Rasheed Block)
 Themes: Biotechnology, Wildlife and Fisheries, & Health Sciences
 Time: 02:00 pm – 04:00 pm

CHAIR

Dr. Ibrar Ahmed

CEO Director
 Alpha Genomics, PWD, Islamabad

CO-CHAIR

Dr. Farha Masood

Assistant Professor
 Department of Biosciences
 COMSATS University, Islamabad

TIME	KEYNOTE TALKS
02:00 pm -02:10 pm	Application of Natural Media for Isolation and Culturing of Oligodendrocyte Precursor Cells from Neonatal Quail Brain <i>Dr. Asghar Shabbir (COMSATS University, Islamabad)</i>
02:10 pm -02:20 pm	Plankton Diversity in the High Throughput Era <i>Dr. Leocadio Blanco-Bercial (BIOS, Bermuda)</i>

TIME	ORAL PRESENTATIONS
02:20 pm -02:30 pm	Role of Big Data in Health Care Industry: An Empirical Evidence from Pakistan <i>Qaiser, T., & Fatima, I. (Riphah International University, Lahore Campus)</i>
02:30 pm -02:40 pm	3D Structure Prediction of TANK Binding Kinase 1-Binding Protein 1 by Using Different Online Tools (I TASSER, Alpha Fold and Robetta) <i>Sawal, H. A., Safdar, T., & Anees, L. (Rawalpindi Women University, Rawalpindi)</i>
02:40 pm -02:50 pm	Protective Effect of N-Acetyl Cysteine Against Sodium Arsenite Induced Toxicity in Laboratory Mice <i>Aziz, T., & Qureshi, I. Z. (Quaid-i-Azam University, Islamabad)</i>
02:50 pm -03:00 pm	Protective Effects of <i>Tephrosia Lupinifolia</i> dc. Against Cadmium Induced Renal Toxicity in Sprague Dawley Rats <i>Rashid, U., Rahat, Z., Aslam, I., Jannat., & Mushtaq, S. (Quaid-i-Azam University, Islamabad)</i>
03:00 pm -03:10 pm	Identification of A Novel Homozygous Missense (c.443A>T:p.N148I) Mutation inBBS2 in a Kashmiri Family with Bardet-Biedl Syndrome <i>Ali, G., Sadia., & Batool, S. A. U. (University of Azad Jammu and Kashmir, Muzaffarabad)</i>
03:10 pm -03:20 pm	Investigation of Mitochondrial Calcium Exchange in Ionomycin-Induced Neutrophil Degeneration <i>Tariq, M., Ali, S. G., & Alam, M. R. (Quaid-i-Azam University, Islamabad)</i>
03:20 pm -03:30 pm	Iron Nanoparticles Inhibit Growth in High Altitude Endemic Murree Hills Frog (<i>Nanorana Vicina</i>) <i>Maqbool, I., Rais, M., Iqbal, M. N., Naeem, S., & Gill, S. (PMAS Arid Agriculture University, Rawalpindi)</i>
03:30 pm -03:40 pm	First Record of <i>Ampulex Compressa</i> (Fabricius, 1781) (Hymenoptera: Ampulicidae) from Pothwar Region of Pakistan <i>Fareen, A. G. E., Bodlah, M.A., Bodlah, I., & Rasheed, M.T. (PMAS Arid Agriculture University, Rawalpindi)</i>
03:40 pm - 03:50 pm	Spatial Distribution of Malaria and its Vectors in Five Selected Districts of Khyber Pakhtunkhwa, Pakistan <i>Noreen, S., & Gul, M. (Hazara University, Mansehra)</i>
03:50 pm -04:00 pm	Q & A Session Session Concluding Remarks by Session Chair and Co-Chair Shields and Certificates Distribution

Posters Botany
Venue: Corridor- Block A
Time: 11:00 am - 12:30 pm

POSTER JUDGES

Prof. Dr. Rehmatullah Qureshi	Department of Botany PMAS Arid Agriculture University, Rawalpindi
Dr. Mubin Mustafa Kiyani,	Associate Professor Shifa Tameer-E-Millat University, Islamabad
Dr. Zaffar Hashmi	Associate Professor COMSATS University, Islamabad
Dr. Yamin Bibi	Assistant Professor Department of Botany PMAS Arid Agriculture University, Rawalpindi

POSTER CODE	TITLE
PBOT-01	Evolutionary Descent of Different Bacteria from a Common Ancestor based on Bioinformatics Tools Batool, S. Z., Rehman, M., & Khan, N. A. (<i>Abbottabad University of Science and Technology</i>)
PBOT-02	Eco-friendly Approach to Utilize Nanoparticle along with Ascomycetes Fungal Strains to Enhance Lignin Degradation Process Parveen, S., & Jamal, A. (<i>Quaid-i-Azam University, Islamabad</i>)
PBOT-03	Ethnopharmacological Approach of Stinging nettle (<i>Urtica Dioica</i> L.) among the Local Inhabitants of District Rawalpindi, Province of Punjab, Pakistan Kanwal, A., & Habib, D. (<i>Rawalpindi Women University, Rawalpindi</i>)
PBOT-04	Optimization of <i>In-situ</i> Biogas Up-gradation by CO ₂ -to-CH ₄ Bioconversion in Two Stage Attached Growth Reactor Shah, W. A., Khan, A., Hamayat Ullah., & Badshah, M. (<i>Quaid-i-Azam University, Islamabad</i>)
PBOT-05	Assessment of Antidepressant Potential of <i>Ziziphus nummularia</i> in Sprague Dawley Rats Jan, S., Rashid, U., Khan, M. R., Bokhari, J., Ismail, H., & Mirza, B. (<i>Abasyn University, Islamabad</i>)
PBOT-06	Study of Cytotoxic Activities of Different Fractions of <i>Periploca aphylla</i> Decne Rashid, U., Khan, M. R., Bokhari, J., & Jan, S. (<i>Abasyn University, Islamabad</i>)
PBOT-07	Physiological and Biochemical Response of Mutated M3 Cotton (<i>Gossypium hirsutum</i>) to Different Level of Salt Stress Rana, U. S., Khan, M. A., Bilal, H., & Khan, A. (<i>University of Agriculture Faisalabad</i>)
PBOT-08	Electro-chemical Activity and Diversity Profiling of Enriched Electricigens from Sewer Contaminated Soil Sediments in Dual Chamber Microbial fuel cell Zafar, Z., Ayaz, K., & Ali, N. (<i>Quaid-i-Azam University, Islamabad</i>)
PBOT-09	Comparison of Different Mobile Application of FJWU Flora Mall, Rawalpindi, Pakistan Khan, L. A., Ilyas, H. B., Khan, L. A., Nayab, A., Safdar, N., Yasmin, A., & Iqbal, H. (<i>Fatima Jinnah Women University, The Mall Rawalpindi</i>)
PBOT-10	Novel Report of <i>Fusarium oxysporum</i> Causing Dry Rot of Carrot in Pakistan Ghuffar, S., Riaz, M., Saeed, S., Abbas, W., Mehmood, N., Irshad, G., Sabtain, U., Hassan, Z., & Qayyum, A. (<i>Vegetable Research Station, Sahiwal</i>)
PBOT-11	Elucidating the Role of Antioxidant Enzymes in Stripe Rust Resistant and Susceptible genotypes Zainy., Fayyaz, M., & Farrakh, S. (<i>COMSATS University, Islamabad</i>)
PBOT-12	Screening of Chilli Germplasm for Resistance to Bacterial Foliar Pathogens Akhtar, S., Raja, M. U., Mukhtar, T., & Mehmood, R. (<i>PMAS Arid Agriculture, Rawalpindi</i>)
PBOT-13	New insights on Distribution and Molecular Characterization of Sugarcane Bacterial Diseases in Pakistan Tasaddaq, S., Raja, M. U., Mukhtar, T., Zakria, M., & Farooq, M. A. (<i>PMAS Arid Agriculture, Rawalpindi</i>)

POSTER CODE	TITLE
PBOT-14	<i>Vigna radiata</i> Chromium Stress-Induced Oxidative burst & its Management by Indigenous Plant Extracts Javaid, A., Akhtar, S., & Hassan, N. (<i>Minhaj University, Lahore</i>)
PBOT-15	Development and Evaluation of Dry Powder Sachet Formulation from <i>Grewia asiatica</i> (Phalsa) Ishtiaq, S. (<i>The Standard College for Girls, Sialkot</i>)
PBOT-16	Treatment of Abattoir's Wastewater by Using Integrated Approach Nauman, A., & Ahmed, M. (<i>Quaid-i-Azam University, Islamabad</i>)
PBOT-17	Documentation of Traditionally used Medicinal Plants by Local Communities of District Okara Riaz, A., Harun, N., Arshad, F., Fatima, K., Ijaz, R., & Waheed, M. (<i>University of Okara, Okara</i>)
PBOT-18	Screening of Maize Hybrids and Lines against Stalk rot (<i>Fusarium verticillioides</i>) Hasam, M., Masroor, A., Akhtar, S., Rasool, Z., & Ahmed, G. M. (<i>University of Agriculture Faisalabad, Sub-campus Burewala Vehari</i>)
PBOT-19	Plant Disease Survey of Burewala, District Vehari Asghar, S., Masroor, A., & Akhtar, S. (<i>University of Agriculture Faisalabad, Sub-campus Burewala Vehari</i>)
PBOT-20	Assessment of Genetic Diversity Among Different Populations of <i>Taxus baccata</i> from Neelum Azad Kashmir, Pakistan Akhtar, W., Qammar, K., & Munir, A. (<i>University of Azad Jammu and Kashmir, Muzaffarabad</i>)

Posters Chemistry
Venue: Gallery-Sheikh Rasheed Block
Time: 11:00 am - 12:30 pm

POSTER JUDGES

Prof. Dr. Ishrat Jabeen	Department of Science National University of Sciences and Technology (NUST) Islamabad
Dr. Faroha Liaquat	Department of Chemistry Quaid-i-Azam University Islamabad

POSTER CODE	TITLE
CHM-01	A Facile Solution based Chemical Method to Fabricate Black titania (B-TiO ₂) Fatima, A., & Akhtar, J. (<i>Mirpur University of Science and Technology, Mirpur</i>)
CHM-02	Niobium and Titanium doped Nickel rich LiNi _{0.8-x} Co _{0.1} Mn _{0.1} O ₂ (x = 0.01, 0.1 and 0.2) as efficient cathode materials for energy storage applications. Noor-ul-Ain, N. U., Rehman, Z., & Darr, J. A. (<i>Rawalpindi Women University, Rawalpindi</i>)
CHM-03	Synthesis of Cd ²⁺ /Ti ³⁺ Doped Copper Oxide Nanostructured Material Adeel, M. (<i>Mirpur University of Science and Technology, Mirpur</i>)
CHM-04	Development of a Novel Electrochemical Sensor for the Sensitive Detection of Metanil Yellow using Square Wave Voltammetry Noor, M., Rizwan, A., Munir, A., & Shah, A. (<i>Rawalpindi Women University, Rawalpindi</i>)
CHM-05	Prospects for Hydrogen in the Future Energy System Noor-ul-Ain, N. U. (<i>Quaid-i-Azam University, Islamabad</i>)
CHM-06	Treatment of Rubber and Textile Processing Wastewater with Advance Oxidation Processes Yasir, A., Rauf, A. A., Kausar, F., & Shamshad, J. (<i>Rawalpindi Women University, Rawalpindi</i>)

POSTER CODE	TITLE
CHM-07	<i>Saccharum munja</i> Biochar Loaded with Hematite Nanomaterial for Remediation of Cadmium from Aqueous Media Iqbal, T., Iqbal, S., & Batool, F. (<i>Rawalpindi Women University, Rawalpindi</i>)
CHM-08	Electrochemical Performance of Carbon Modified LiNiPO ₄ as Li-Ion Battery Nasir, M. H., Janjua, N. K., & Santoki, J. (<i>Rawalpindi Women University, Rawalpindi</i>)
CHM-09	Deposition of ZnO Doped Thin Films by AACVD Method for Water Splitting Applications Khan, H. K., Tahir, A. A., & Akhtar, J. (<i>Rawalpindi Women University, Rawalpindi</i>)
CHM-10	Enhanced Photo Catalytic Removal of Eosin Y and Methylene Blue by using TiO ₂ / GO/ PA as Photo Catalyst Afifa, R., Misbah, N., Azeema, M., & Afzal, S. (<i>Rawalpindi Women University, Rawalpindi</i>)
CHM-11	Study of Physicochemical Properties of Soft drinks and Energy drinks Available in Local Market of Lahore, Pakistan Gul, I., Saleem, F., & Mehboob, S. (<i>Government Queen Mary Graduate College, Lahore</i>)
CHM-12	Estimation of Vitamin c in Tropical and Stone Fruits by Comparative Analysis of Titration and UV- visible and FTIR Aslam, A., Khurshid, A., Inayat, S., & Mehboob, S. (<i>Government Queen Mary Graduate College, Lahore</i>)
CHM-13	Estimation of Daily Intake of Heavy Metals Pb, Cd, Cr, Cu through Food in Ravi Road and Manawan, Lahore, Pakistan Sohail, Z., Mughal, A. J., & Mehmoob, S. (<i>Government Queen Mary Graduate College, Lahore</i>)
CHM-14	Comparative Study of Different Adulterants in Tetra-pack and Fresh Milk Samples Collected from West Lahore Ahmed, A., Saeed, N., & Mehmoob, S. (<i>Government Queen Mary Graduate College, Lahore</i>)
CHM-15	A Comparative Analysis of Physico-chemical Parameters and Heavy Metals in Government Filter Water plants and Tap Water to Evaluate the Quality of Drinking Water in Three Residential areas Jallo More, Bhagbanpura, and Islampura in Lahore, Pakistan Shahzad, K., Butt, Z. T., Ain, N. U., & Mehboob, S. (<i>Government Queen Mary Graduate College, Lahore</i>)
CHM-16	Physiochemical Properties Of Fluoride Toothpaste, Herbal Toothpaste in Comparative To Non Herbal Toothpaste and Analysis of Heavy Metal in Fluoride Toothpaste, Herbal and Non Herbal Toothpaste Begum, F., Abbas, S., Inayat, S., & Mehboob, S. (<i>Government Queen Mary Graduate College, Lahore</i>)
CHM-17	Determination of Alpha Tocopherol in Grains and Nuts by UV-VISIBLE Spectroscopy and FTIR Spectroscopy Ayesha, S., Mehreen, A., & Saliha, M. (<i>Government Queen Mary Graduate College, Lahore</i>)
CHM-18	Surface Modification of Composite Polyamide Nanofiltration (NF) membrane by Immobilizing Ag-doped TiO ₂ Nanoparticles for Water Purification Habib, Z., Khan, S. J., & Shahzad, H. M. A. (<i>Rawalpindi Women University, Rawalpindi</i>)
CHM-19	Noble Metal Doped rGo-ZnS Nanocomposites for Adsorption and Photocatalytic Degradation of Environmental Pollutants Naeem, H., Bhatti, N. K., & Siddiq, M. (<i>Rawalpindi Women University, Rawalpindi</i>)
CHM-20	Evaluation of Toxic (Pd,Cd) and Essential (Cu, Cr) Heavy Metals in Foodstuff by AAS and their Health Risk Assessment in Manawan and Ravi Road, Lahore, Pakistan Mughal, A. J., Inayat, S., & Mehboob, S. (<i>Government Queen Mary Graduate College, Lahore</i>)

Posters Zoology

Venue: Gallery, 4th Floor-Sheikh Rasheed Block

Time: 11:00 am -12:30 pm

POSTER JUDGES

Prof. Dr. Irfan Zia	Department of Zoology Quaid-i-Azam University, Islamabad
Dr. Tariq Mahmood	Department of Zoology, Wildlife and Fisheries PMAS University of Arid Agriculture, Rawalpindi
Dr. Muhammad Sajid Nadeem	Department of Zoology, Wildlife and Fisheries PMAS University of Arid Agriculture, Rawalpindi

POSTER CODE	TITLE
Z00-001	Prevalence and Associated Risk Factors of Premenstrual Syndrome among Female Population of Peshawar City Sapna, Ejaz, R., Shamas, S., Nighat, S., Azam, A., Maqsood, I., & Qadeer, S. (Rawalpindi Women University, Rawalpindi)
Z00-002	Monthly Distribution of <i>Planilizasubviridis</i> (Perciformes, Mugilidae), Collected from Sonmiani Bay, Balochistan -Pakistan Musarrat-ul-Ain, Saher, N.U., Aziz, N., & Qureshi, N. A. (University of Karachi, Karachi)
Z00-003	Analysis of SNP of Kisspeptin Gene in <i>Diabetes Mellitus</i> Type 2 Patients in District Gujrat, Punjab Israr-ud-Din, Shamas, S., Farooq, A., Ejaz, R., Roshan, S., & Nighat, S. (Rawalpindi Women University, Rawalpindi)
Z00-004	Removal of Antibiotic Resistant Bacteria and Associated Resistant Genes from Hospital Wastewater by Employing Strategic Optimization of 2-Phase Anaerobic Digestion Process Kiani, H. S., Ali, M. I., & Waseem, W. (Quaid-i-Azam University, Islamabad)
Z00-005	Comparative Study of Liver and Kidney Functions in Broiler and Domestic Chicken (<i>Gallus gallusdomesticus</i>) Ambreen, F., Tahir, M., Bibi, R., & Sajid, H. (Rawalpindi Women University, Rawalpindi)
Z00-006	Autosomal Recessive Transmission of a Rare HOXC13 Variant Causes Pure Hair and Nail Ectodermal Dysplasia Mehmood, S., Raza, S. I., Bokhoven, H. V., & Ahmad, W. (Quaid-i-Azam Islamabad)
Z00-007	Impact of Pro-Inflammatory Mediators on Agonist-Induced Platelet Aggregation Fatima, S., Shehwar, D., & Alam, M. R. (Quaid-i-Azam University Islamabad)
Z00-008	Prevalence of Myopia in Young Females Imran, A., Shakeel, M., Bibi, M., Nayab, A., Masood, N., Yasmin, A., & Iqbal, H. (Fatima Jinnah Women University, Rawalpindi)
Z00-009	Time Spent on Social Media by University Graduates Ajaz, A., Zulfiqar, M., Munawrah, Z., Nayab, A., Yasmin, A., & Iqbal, H. (Fatima Jinnah Women University, Rawalpindi)
Z00-010	Prevalence and Risk Factors of Gestation <i>Diabetes Mellitus</i> in Twin Cities Satti, R. K., & Nayab, A. (Fatima Jinnah Women University, Rawalpindi)
Z00-011	Habits of Junk vs. Healthy Food in University Graduates Abbasi, T. I., Nisar, K., Sheraz, A., Nayab, A., Yasmin, A., & Iqbal, H. (Fatima Jinnah Women University, Rawalpindi)
Z00-012	Effect of COVID-19 Vaccination on Female Health Bibi, M., Zahra, S. A., Shahid, E., Nayab, A., Yasmin, A., & Iqbal, H. (Fatima Jinnah Women University, Rawalpindi)
Z00-013	Morphological Appraisal of Acanthocephalan parasite <i>Polymorphus minutus</i> Infecting <i>Anas platyrhynchos</i> Sarwar, H., Wenting, Z., & Aslam, S. (Rawalpindi Women University, Rawalpindi)
Z00-014	Molecular and Genetic Analysis of Hotspot Exon (10) GBA Gene in Pakistani Families Affected with Gaucher's Disease Sattar, F., Hassan, S. W., & Gul, B. (University of Wah, Wah Cantt, Rawalpindi)
Z00-015	De-sizing of Cotton Fabric with Amylase Produced by Indigenously Isolated <i>Bacillus Cereus</i> AS2s Rehman, A., Saeed, A., Rehman, M., Hayat, A., & Khan, I. (Abbottabad University of Science and Technology, Havelian, Abbotabad)
Z00-016	Mitochondrial Transplantation Attenuates Ischemia-Reperfusion Injury Barki, S., Khan, S., & Alam, M. R. (Quaid-i-Azam University, Islamabad)
Z00-017	Expressional Alteration of Micrnas in Papillary Thyroid Carcinoma Baig, R. M., Kainat, N., Afzal, A., & Khan, R. (PMAS Arid Agricultural University, Rawalpindi)
Z00-018	First Record of <i>Trirogmacaerulea Westwood</i> , 1841 (Hymenoptera: Ampulicidae) from Pothwar region of Pakistan Gull E Fareen, A., Bodlah, M. A., Bodlah, I., & Rasheed, M. T. (PMAS Arid Agriculture University, Rawalpindi)

