

Conference Schedule

ICALS 2025, Faculty of Life Science

Date & Time	Event	Location of Event
10.01.2025 (Friday)		
2:00pm – 5:00pm	Conference Kit Collection	Ground Floor, Academic Building-3
Day 1- 11.01.2025 (Saturday)		
9:00am – 9:55am	Registration and Conference Kit Collection	Ground Floor, Academic Building-3
10:00am – 11:00am	Inaugural Session	Conference Room, Floor-12, Academic Building-3
11:00am – 11:20am	Tea/Coffee Break	Floor-12, Academic Building-3
11:20am – 12:00pm (11.01.2025; Saturday)	Plenary Session-1 Plenary Speaker-1: Dr. Md. Abdur Rashid, Department of Pharmaceutical Chemistry, Faculty of Pharmacy, University of Dhaka, Dhaka-1000, Bangladesh. Title: “Secondary Metabolites as Promising Sources of New Therapeutic Agents”	Conference Room, Floor-12, Academic Building-3
12:00pm – 12:40pm	Plenary Speaker-2: Dr. Sharif Akhteruzzaman, Professor, Department of Genetic Engineering and Biotechnology; University of Dhaka, Bangladesh. Title: “DNA Technology Criminal Investigation”	
11:00am – 12:30pm (11.01.2025; Saturday)	Poster Hanging 1. Recent advances in Biotechnology 2. Innovations in Biochemistry and Molecular Biology 3. Drug Discovery and Personalized Medicine	Dept. of BGE Dept. of BMB Dept. of Pharmacy
12:45pm – 1:45pm (11.01.2025; Saturday)	Lunch	Ground Floor, Academic Building-3
2:00pm – 4:30pm (11.01.2025; Saturday)	Day-1 Session-1	
2:00pm – 2:20pm (11.01.2025; Saturday)	Sub theme: Environmental Health and Climate Resilience Session Speaker: Md. Khaled Hossain, Professor, Department of biochemistry and molecular biology, University of Rajshahi, Bangladesh. Title: “A Novel Insight into Arsenic Exposure Related Obesity” Moderator: Dr. Md. Mahbubul Hoque, Professor, Department of Environmental Science and Resource Management, Mawlana Bhashani Science and Technology University, Tangail, Bangladesh	Seminar Room-1, Dept. of ESRM

Date & Time	Event	Location of Event
2:20pm – 4:10pm (11.01.2025; Saturday)	Parallel Session-1 (Oral Presentations): Chair: Professor Dr. Md. Mahbubul Hoque Co-Chair: Ms. Mausumi Rehnuma Rapporteur: Ms. Mehnaz Abbasi Badhan ER-OP-01: Potentiality of Moringa (Sajna) Seed for the Removal of Toxic Heavy Metal(loid)s and Pathogenic Bacteria from Contaminated Water O. H. Ria, T. R. Tusher, M. H. Kabir and M. S. Islam ER-OP-09: Methyl Parathion over Au nanoparticles@rGO/CuO Ternary Nanocomposite: A Sensitive, Selective Electrochemical Detection and Kinetic Analysis N. I. Nayem, M. S. Hossain and M. A. Rashed ER-OP-12: Fabricating Modified Surface Nonwoven Polyethylene (PE) Adsorbent Using Radiation-induced Grafting of Binary Monomers to Efficiently Remove Cr(VI) and Co(II) S. Akter, U. Salma, F. Alam and N. Rahman ER-OP-20: Hydrothermal Synthesis and Characterization of MnO₂/Mxene/WO₃ Ternary Nanocomposite for Photocatalytic Dye Degradation Obaidullah and M. Rahman ER-OP-25: An Examination of the Efficiency and Kinetic Behavior of Banana Peel and Orange Peel as Adsorbents in the Process of Heavy Metal Removal from Synthetic Solutions M. J. Rahman, M. M. Hasan, and U. Salma ER-OP-31: Synthesis and Characterization of Dye-Sensitized Solar Cell Using Natural Dye from Turmeric: An Eco-Friendly Energy Harnessing Approach M. F. Hasan and Obaidullah ER-OP-43: Calcium Phosphate Nanoparticles in Polymer Degradation: Exploring Their Role in Nano-Fertilizer Composite Development S. I. Sakib, T. R. Singdha, M. Das and A. K. Sarker ER-OP-50: Dyeing of Polyester Fabric with Natural Colorants Extracted from Bamboo Leaves: A New Approach in Synthetic Fabric Coloration A. Tasnim, M. R. Raihan, T. R. Tontree, T. A. Swarna and M. A. A. Mamun	Seminar Room-1, Dept. of ESRM
2:20pm – 4:10pm (11.01.2025; Saturday)	Parallel Session-2 (Oral Presentations): Chair: Professor Dr. Md. Sirajul Islam Co-Chair: Dr. Tanmoy Roy Tusher Rapporteur: Mr. Md. Azharul Haque Chowdhury ER-OP-02: Comparison Between Natural Attenuation and Plant-Bacteria Combined Technology (Marigold + <i>Pseudomonas</i> spp.) for Bioremediation of Chlorpyrifos Residue from Soil S. Islam, M. Bhuiyan, A.S.M. Saifullah and S. Mahmud	Seminar Room-2, Dept. of ESRM

Date & Time	Event	Location of Event
	ER-OP-07: Isolation and Characterization of Plant Growth-Promoting Rhizobacteria (PGPR) from Pea (<i>Pisum sativum</i>) Rhizosphere of Different Pea Fields of a District of Bangladesh for Soil Fertility and Crop Productivity M. B. Masud, F. Asfar, A. Bhuiyan, A. das, S. Nusrin and M. M. Mahbub ER-OP-11: Identifying Antibiotic Producing Microbes in Soils from Nijhum Dwip Mangrove Forest: Isolation and Characterization N. J. Bipa and M. S. Khan ER-OP-21: Phytochemical Screening, Antibacterial Activity, and Toxicity of <i>Sapium indicum</i> Fruit Extracts in Brine Shrimps and Swiss Albino Mice K. Akter, A.S.M. Saifullah and S. Mahmud ER-OP-23: Characterization and Bioremediation Potential of Heavy Metal-Tolerant Bacteria Isolated from Landfill Leachate in Dhaka City U. S. Antua, J. Karmakar, N. E. Akter, N. Haqueeb , A. Sarkerb , M. A. K. Parvez and M. S. Hossaina ER-OP-29: Drought Response for Post-Germinating Seedlings of Zn Biofortified Rice from Bangladesh S. Masum, F.N. Mohona and K.J. Shethi ER-OP-32: Exploring Soil Samples: Isolation and Identification of Gentamicin-Resistant Enterobacter spp. and Comparative Genomic Analysis of Their Phages M. S. Ahomed, G. M. N. A. Jewel, S. H. Prodhan and S. I. Mondal ER-OP-45: Transform waste into wealth through sustainable bio-enzyme solutions J. S. Meem, and A. K. M. Mohiuddin ER-OP-51: Molecular Characterization and Detection of the <i>invA</i> Gene in Multidrug-Resistant and ESBL-Producing <i>Salmonella</i> spp. from Broiler Chicken in Dhaka, Bangladesh T. Hossen, M. S. Sahib, R. U. Hakim, S. M. Supty, T. M. F. Saadat, K. T. Islam, R. N. Rubaiyat and S. M. B. U. Islam	
2:00pm – 2:20pm (11.01.2025; Saturday)	Sub theme: Crime, Victims and Criminal Justice Session Speaker: Dr. Mohammed Bin Kashem, Professor, National University, Bangladesh. Title: “Effective Use of Forensic Science in Criminal Investigations in Bangladesh: Issues and Challenges” Moderator: Mr. Mohammed Ashraful Alam, Associate Professor, Department of Criminology and Police Science, Mawlana Bhashani Science and Technology University, Tangail, Bangladesh	Room-406, Dept. of CPS

Date & Time	Event	Location of Event
2:20pm – 4:10pm (11.01.2025; Saturday)	Parallel Session-1 (Oral Presentations): Chair: Mr. Mohammed Ashraful Alam Co-Chair: Ms. Moonmoon Binta Aziz Rapporteur: Ms. Mahmuda Akter CP-OP-01: Investigation Challenges of Bangladesh Police in Border Crimes: An Exploratory Study N. Yesmen and M. B. Fahim CP-OP-10: Identity Theft in Digital Age: Risk Factors, Preventive Measures, and Policy Implications in the United States N. C. Nath CP-OP-12: Different Aspects of Cyberbullying Victimization in Bangladesh for Child and Women M. N. Suchana, A. Tabassum, M.B. Yousuf and M. M. Ahmmed CP-OP-13: Trends in Gender-Based Violence and Child Protection in Bangladesh M. S. B. Arif, F. Rahman, A. Tabassum and M. M. Ahmmed CP-OP-14: The Role of Crime in Shaping Social Inequality and Disparities: Examining Systemic Factors, Community Vulnerabilities, and Policy Interventions M. M.R. Nafiz, A. P. Amit, A. Islam, M. F. J. Chadni, M. A. S. Sazid, and J. Fardus CP-OP-24: Prevalence and Response to Domestic Violence against Men in Bangladesh: A Criminal Justice Perspective T. M. A. A. Fuad CP-OP-32: Challenges and Strategies for Research in Prisons: An Exploration M. N. Khatun CP-OP-33: Addressing Cybercrime in Bangladesh: A Comprehensive Analysis From 2018 To 2023 A. Afrin, S. Afrin, K. B.Arko, and M. M. Ahmmed	Room-406, Dept. of CPS
2:20pm – 4:10pm (11.01.2025; Saturday)	Parallel Session-2 (Oral Presentations): Chair: Dr. Md. Bashir Uddin Khan Co-Chair: Ms. Nelufer Yesmen Rapporteur: Ms. Sumona Sharmin CP-OP-04: Exploring the Factors of Fear of Crime among Railway Passengers in Bangladesh: A Study on Joydebpur, Kamalapur, and Tangail Stations Z. I. Hasan and M. I. A. Talukder CP-OP-05: Exploring the Impact of Occupational Stress on Smart Policing: A study on Dhaka Metropolitan Female Police M.S. Akter and M.I.A. Talukder CP-OP-06: Impact of Microfinance on Women Empowerment in Tangail District J. Akter, A. Rahman, and M. N. Sadekin	Room-407, Dept. of CPS

Date & Time	Event	Location of Event
	CP-OP-15: Deepfakes: A Focus on Fraud and Identity Theft T. H. Apurbo, Fatima, M. S. K. Mishel and M. M. Ahmmed CP-OP-26: Victims of Child Labor and Their Involvement in Delinquency: A Study on Urban Areas in Bangladesh M. A. Rahman and M. O. Faruk CP-OP-34: A Fairness-Aware Machine Learning Approach for Predicting Cybercrime Victims in Bangladesh S. Das and M. O. Faruk CP-OP-35: Local RMG workers in Bangladesh: A Vindicated Depiction of Modern Slavery N. Shabnam CP-OP-36: Violence Against Women and Children: Legal Frameworks, Challenges and Bangladesh Perspectives K.A. Jarif, T. Mondal and M. M. Ahmmed	
2:00pm – 2:20pm (11.01.2025; Saturday)	Sub theme: Food, Nutrition and Nutraceuticals Session Speaker: Dr. Md. Omar Faruque, Associate Professor, Dept. of Nutrition and Food Technology, Jashore University of Science and Technology, Jashore, Bangladesh. Title: “The Intricate Mechanism of Functional Foods Oyster Mushroom and Fenugreek on Type 2 Diabetic Model Rats” Moderator: Dr. Rokeya Begum, Professor, Department of Food Technology and Nutritional Science, Mawlana Bhashani Science and Technology University, Tangail, Bangladesh	Gallery Room-506, Dept. of FTNS
2:20pm – 4:10pm (11.01.2025; Saturday)	Parallel Session-1 (Oral Presentations): Chair: Professor Dr. Rokeya Begum Co-Chair: Dr. Md. Zainul Abedin Rapporteur: Mr. Md. Rakibul Hasan FN-OP-01: Linking High Salt Consumption to Cardiovascular Disease Risk among Bangladeshi Adults E. A. Islam, M. M. Afif, A. A. Noman and M. Ahmmed FN-OP-02: Factors Correlate the Health and Life Status of the Young University Students of Bangladesh: A Cross-Sectional Study B. Dam, M. C. Shill, M.S.A. Mayen, Y. Araf, T. Alam, L. Bhowmik, K. N. Nadira, S.M.S.N. Antu, K. Hossain and M. J. Hosen FN-OP-03: Byproduct Utilization of Watermelon (<i>Citrullus lanatus</i>) for the Preparation of Ketchup and Its Sensory Evaluation F. Zaman, A. A. Noman, M. Khanam, F. Sultana and M. Z. Abedin FN-OP-04: Quality Evaluation of Composite Bread and Cake from Date Seed Flour M. Zahan, M. Z. Abedin and M. Esrafil	Gallery Room-506, Dept. of FTNS

Date & Time	Event	Location of Event
	FN-OP-05: Maximization of Thermo-sonication Conditions and Taro Mucilage Concentrations for Developing Physicochemical and Microbial Properties of Soy-yoghurt A. Akhi, T. Ahmed, R. Ara and M. R. Rana FN-OP-06: Assessment of Dietary Patterns and Nutritional Differences among Urban Poor Women in the Slums of Dhaka, Bangladesh M. S. Misty, H. Akther and M. S. Bhuiyan FN-OP-07: Optimization of the Spray Drying Factors of Jackfruit-Moringa Extract Powder by Response Surface Methodology and Artificial Neural Network M. Islam, M. R. Hassan, S. Mondal, S. Akter, M. Khatun, M. A. Haque and R. Begum	
2:20pm – 4:10pm (11.01.2025; Saturday)	Parallel Session-2 (Oral Presentations): Chair: Professor Dr. Md. Abu Zubair Co-Chair: Mr. Md. Nannur Rahman Rapporteur: Mr. Md. Esrafil FN-OP-08: Prevalence and Risk Factors of Fish Borne Illness among University Students of Bangladesh: A Cross-Sectional Study M. A. A. M. Hridoy, S. S. Marine, M. I. Khalil, A. H. A. Rashid, N. J. Raha, M. M. Reza, D. H. A. Mostakim and P. Debnath FN-OP-09: Prevalence and Determinants of Child Mortality in Bangladesh M. R. Islam, F. A. Koasha and M. H. Ali FN-OP-10: Enhancing the Stability and Bioavailability of Iron Fortification Using Polysaccharide-Based Encapsulation Systems in Pasteurized Dairy Beverages M. S. Ahamed, M. S. Ali, N. Tabassum, M. R. Islam, S. I. Prome, K. Ahmed and S. M. S. Shahriar FN-OP-11: Exploring the Impact of Different Types of Edible Oil Incorporated Diets on Changes in Weight and Lipid Profile of Obese Wister Rats M. A. Hossain, M. L. Rahman, E. Khatun, P. Akter, R. Akter and K. M. R. Linkon FN-OP-12: A Comprehensive Study on Orange Mold Contamination in Mushroom Cultivation T. Ferdous, S. Yesmin and J. Khandakar FN-OP-13: Assessment of Nutritional Composition, Mineral Profile, Bioactive Phytochemicals, and Antioxidant Activities of Edible Weeds S. Haque, M. M. Kamal, T. K. Suvo, P. Akter, M. Hosen, F. Sarker, S. Miah and M. A. Rahman FN-OP-14: Chemical Composition, Bioactive Compounds and Antioxidant Potential of Fruits, Leaves, Stems and Roots of <i>Solanum nigrum</i> and <i>Solanum villosum</i> M. A. Rahman, M. M. Kamal, M. Z. Hasan, D. Halder, R. H. Himel, M. S. Amin and A. Ullah	Gallery Room-508, Dept. of FTNS

Date & Time	Event	Location of Event
2:00pm – 2:20pm (11.01.2025; Saturday)	Sub theme: Recent Advances in Biotechnology Session Speaker: Dr. Mohammed Nazmul Ahsan, Professor, Department of Genetic Engineering and Biotechnology, University of Dhaka, Bangladesh. Title: “Chromium (Cr)-Mediated Toxicity on Human Health” Moderator: Dr. Md. Fazlul Karim, Professor, Department of Biotechnology and Genetic Engineering, Mawlana Bhashani Science and Technology University, Tangail, Bangladesh	Seminar Hall, Dept. of BGE
2:20pm – 4:10pm (11.01.2025; Saturday)	Session-1 (Oral Presentations): Chair: Professor Dr. Md. Fazlul Karim Co-Chair: Dr. Aysha Ferdoushi Rapporteur: Ms. Roksana Khanam BG-OP-01: Cartography of <i>Escherichia coli</i> Phylogroup in Human, Animal, Food, and Environmental Origins in Bangladesh S. I. Salman, K. I. Hoque, A. I. Riya, A. S. Sraboni and M. B. Amin BG-OP-02: Food Additive ‘Tartrazine’ Impedes Early Embryonic Development by Downregulating <i>Smt3</i> Gene: A Study on <i>Drosophila melanogaster</i> D. Hasin, SM Y. Uddin, A. Mahmud and M. J. Hosen BG-OP-03: Computational Identification of Medicinal Plant-Derived Phytochemicals as Potential Inhibitors of Bruton’s Tyrosine Kinase S. Hoque, M. M. Hossain, M. S. Ahamed, A. Ferdoushi and M. F. Karim BG-OP-04: Genetic Determinants of Type 2 Diabetes: Insights from TCF7L2, IRS1, and MTNR1B Polymorphisms in Bangladesh M. A. Hossain, M. S. Khan, S. A. A. Ashik and K. M. K. Kibria BG-OP-05: Immunoinformatic exploration to design a multi-epitope-based vaccine utilizing the Fla protein of <i>Legionella pneumophila</i> P. Choudhury, S. M. Kaya and K. M. K. Kibria BG-OP-06: A Study on Isolation and Characterization of <i>Pseudomonas</i> spp. from Soil Samples and Evaluate Their Plastic Degradation Capability and Antibiotic-Resistant Pattern M. N. Shalihin, K. A. Nadi, S. I. Salman and F. T. Zohora BG-OP-07: Cord Blood Screening of $-\alpha^{3.7}$ and $-\alpha^{4.2}$ Deletional Mutation of α-Thalassemia in Relation to Kinship Sample S. M. Shukti, N. J. Tisha, A. M. Ferdous, M.G. R. Mahmud and M. F. Miah	Seminar Hall, Dept. of BGE

Date & Time	Event	Location of Event
2:00pm – 2:20pm (11.01.2025; Saturday)	Sub Theme: Drug Discovery and Personalized Medicine Session Speaker: Dr. Mohammad Safiqul Islam, Professor, Department of Pharmacy, Noakhali University of Science and Technology (NSTU), Noakhali, Bangladesh Title: “Pharmacogenomics: Advancing Precision Medicine and Its Current Status in Bangladesh” Moderator: Dr. Mohammad Sharifur Rahman, Professor, Department of Pharmaceutical Chemistry, University of Dhaka, Dhaka, Bangladesh	Gallery -1, Dept. of Pharmacy
2:20pm – 4:10pm (11.01.2025; Saturday)	Parallel Session-1 (Oral Presentations): Chair: Professor Dr. Mohammad Sharifur Rahman Co-Chair: Dr. Md. Ashraf Ali Rapporteur: Ms. Mahfuza Akhter PH-OP-03: Impact of Global Temperature Rise on the Toxicity Regulation of Chloronicotinyl Compounds A Khan PH-OP-05: Exploration of Antidiabetic, Antioxidant and Cytotoxic Activities of Spiny Gourd (<i>Momordica dioica</i>) Extracts A. R. Khan and M. J. Alam PH-OP-06: Biofilm-formation abilities and multidrug-resistance (MDR) phenotype of <i>Escherichia sp.</i> and <i>Shigella sp.</i> isolated from suspected UTI patients M. Z. Islam and M. A. Rahman PH-OP-09: Evaluation of the Association Between DNMT1 Rs16999593 Variant and Breast Cancer Susceptibility in Bangladeshi Women: A Case-Control Study, In-Silico Study and Meta-Analysis M. A. Barek, A. Miah and M. S. Islam PH-OP-19: Investigation on Bangladeshi Medicinal Plant <i>Commelina paludosa</i> Blume for Isolation and Characterization of Bioactive Compounds S. T. Mina, S. Ashrafi, M. M. Adib, M. R. Kuddus and F. Ahmed PH-OP-23: Analyzing the Relation of IL6R Gene in Rs8192284 Variant with the Risk of Coronary Heart Disease in the Bangladeshi Community M. Sathi, R. S. Keya, M. Shakil, F. F. Perveen, K. M. K. Kibria and M. M. R. Moghal PH-OP-24: Phytochemical Screening and Physiological Activities of Ethanol Extracts of <i>Ficus nervosa</i> Leaves M. Hasan, S. Islam, T. Khanom, S. Yeasmin, K. R. Roy and M. H. Ali	Gallery -1, Dept. of Pharmacy
2:20pm – 4:10pm (11.01.2025; Saturday)	Parallel Session-2 (Oral Presentations): Chair: Professor Dr. Md. Mizanur Rahman Moghal Co-Chair: Dr. Mohammad Sayful Islam Rapporteur: Md. Ataur Rahman	Gallery -2, Dept. of Pharmacy

Date & Time	Event	Location of Event
	PH-OP-01: Repurposing FDA-Approved Anticancer Drugs as Sortilin Inhibitors: A Computational Approach M. S. Ahamed, A. Ferdoushi and M. F. Karim PH-OP-07: Comprehensive Stability Analysis of Vitamin D3 in Pharmaceutical Solid Dosage Forms Using an Optimized and Validated HPLC Method M. H. Shahed, R. Ahmed, M. Nasrulla, S. M. Wasin, M. H. Ali and M. M. R. Moghal PH-OP-14: Miglitol suppresses obesity in high-fat diet-induced obese mice model P. R. Nondi, P. Das, M. S. Hossain and M. A. R. Ripon PH-OP-15: Utilizing Binaural Beats to Combat Mental Fatigue in Corporate Employees for Enhanced Cognitive Performance and Sustained Productivity M. J. Alam and M. M. Ahmmed PH-OP-17: Artificial Intelligence in Pharmaceutical Innovation: Accelerating Drug Discovery and Development A. A. Jihad, S. T. Sarar, M. N. A. Shanto and M. M. Ahmed PH-OP-21: A Comprehensive Analysis of Trends in Unsupervised Antibiotic Usage in Bangladesh S. H. Sifat, A. Amin, M. M. Afif and M. Ahmmed PH-OP-22: Phytochemical Screening and Evaluation of Pharmacological Activities of <i>Sonneria apetala</i> Methanolic Leaf Extract M. A. Sheikh, A. Zobayed, U. Parvin, M. H. Shahed, M. J. Alom and M. M. R. Moghal	
2:00pm – 2:20pm (11.01.2025; Saturday)	Sub theme: Innovations in Biochemistry and Molecular Biology Session Speaker: Mohammad Riazul Islam, Professor, Molecular Biology Laboratory, Department of Biochemistry and Molecular Biology, University of Dhaka, Bangladesh. Title: “Jute Endophyte: Diversity, Biochemistry, Relevance and Industrial Potentials” Moderator: Dr. Md. Asaduzzaman Sikder, Professor, Department of Biochemistry and Molecular Biology, Mawlana Bhashani Science and Technology University, Tangail, Bangladesh	Gallery Room, Dept. of BMB
2:20pm – 4:10pm (11.01.2025; Saturday)	Session-1 (Oral Presentations): Chair: Professor Dr. Md. Asaduzzaman Sikder Co-Chair: Dr. Ashekul Islam Rapporteur: Dr. Mohammad Nasir Uddin BM-OP-01: Whole Genome Analysis of <i>Listeria Monocytogenes</i> Strain AZLM01 Isolated from Ready-to-eat Food in Bangladesh M. I. K. Masum, Z. Nahar, M. H. Rahi, F. Shahel, R. Jahan, H. Hasanat, J. S. Jime, N. Bulbul, M. Fakruddin and A. Safa BM-OP 02: Occupational Hazards and Health Risks: Exploring	Gallery Room, Dept. of BMB

Date & Time	Event	Location of Event
	the Link between Bacterial Infections and Vitamin D Deficiency in Waste Management Workers of Tangail City, Bangladesh N. Mashhur, M. A. Hossain, M. Afrin, M. M. Ferdows, M. A. Mousume, K. R. Reza, M. A. Hosen, M. J. Islam and M. K. Islam BM-OP-03: The Initial Status of Myeloid Cells Predicts the Clinical Efficacy of Immune Checkpoint Inhibition (ICI) Therapy in metastatic cancer S. Sabrina, Y. Takeda, T. Kato, S. Naito, H. Ito, Y. Takai, M. Ushijima, T. Narisawa, H. Kanno, T. Sakurai, S. Saitoh, A. Araki, N. Tsuchiya and H. Asao BM-OP-04: Electrochemical sensor-based palladium oxide/carbon nanotube deposition on NiO for hydroquinone detection M. S. Hossain, M. H. Rahman and M. A. Rashed BM-OP-05: Isolation, Identification and Molecular Characterization of <i>Vibrio vulnificus</i> from Bagda (Tiger shrimps) in Bangladesh R. Jahan, F. Shahel, H. Hasanat, Z. Nahar, M. H. Rahi, M. I. K. Masum, J. S. Jime, N. Bulbul, M. Fakruddin and A. Safa BM-OP-06: Assessing Mosquito Repellency of Herbal Essential Oils and Synthetic Alternatives against <i>Aedes aegypti</i> (Linn.) M. R. Sarker, I. J. Sournia, F. I. Sinthi, R. Parvas, A. S. Zini, S. Akanda and A. Islam BM-OP-07: Harnessing the Anticancer Potential of <i>Camellia Sinensis</i> Phytochemicals in Melanoma: A Computational, DFT Calculation and MMGBSA Perspective on BRAF Inhibition M. S. P. Shuvo, S. M. R. Niaz, S. Jannat, N. Naher, T. Ahmed, M. I. Hasan and M. K. Islam BM-OP-08: Exploration of Telomere Length as a Risk Factor for Lung Cancer S. Tajrian, S. H. Sakib, and M. J. Alam	
4:00pm – 5.00pm (11.01.2025; Saturday)	Poster Evaluation on Sub themes: 1. Recent advances in Biotechnology 2. Innovations in Biochemistry and Molecular Biology 3. Drug Discovery and Personalized Medicine	Dept. of BGE Dept. of BMB Dept. of Pharmacy
4:00pm – 4:30pm (11.01.2025; Saturday)	Tea/Coffee Break	Dept. of ESRM Dept. of CPS Dept. of FTNS Dept. of BGE Dept. of Pharmacy Dept. of BMB
4:30pm – 6:00pm (11.01.2025; Saturday)	Site Visit	Police Training Center (Jamidar Bari), Mohera
6:00pm – 7:30pm (11.01.2025; Saturday)	Cultural Program	Conference Room, Floor-12, Academic Building-3
8:00pm – 9:00pm (11.01.2025; Saturday)	Gala Dinner	Floor-1 & 2, Multipurpose Building

Date & Time	Event	Location of Event
Day 2- 12.01.2025 (Sunday)		
9:30am – 10:00am	Plenary Session-2 Plenary Speaker-1: Dr. Ziarat Hossain , Family and Child Studies professor and Regents’ Lecturer, College of Education and Human Sciences (COEHS), University of New Mexico, United States of America. Title: “ Parents’ Assessment of Children’s Social Behaviors and Schooling in Urban Slum Settlements in Bangladesh ” Plenary Speaker-2: Dr. Abed Chaudhury , Geneticist, Genofax, Australia Title: “ Multi-Harvesting Rice Monitoring Using Optical and Synthetic Aperture Radar Satellite Data ”	Conference Room, Floor-12, Academic Building-3
10:00am – 10:30am		
10:30am – 10:45 am (12.01.2025; Sunday)	Tea/Coffee Break	Floor-12, Academic Building-3
10:45am – 1:00pm	Day-2 Session-1	
10:45am – 12:00pm (12.01.2025; Sunday)	Poster Hanging: 1. Environmental Health and Climate Resilience 2. Crime, Victim and Criminal Justice 3. Food, Nutrition and Nutraceuticals	Dept. of ESRM Dept. of CPS Dept. of FTNS
12:00am – 1:00pm (12.01.2025; Sunday)	Poster Evaluation on Sub themes: 1. Environmental Health and Climate Resilience 2. Crime, Victim and Criminal Justice 3. Food, Nutrition and Nutraceuticals	Dept. of ESRM Dept. of CPS Dept. of FTNS
10:45am – 11:05am (12.01.2025; Sunday)	Sub theme: Environmental Health and Climate Resilience Session Speaker: Dr. Khursheed Alam , Chairman, Bangladesh Institute of Social Research (BISR) Trust. Title: “ Mode of Adaptation during Flood in Coastal Area in Bangladesh ” Moderator: Dr. A.S.M. Saifullah , Professor, Department of Environmental Science and Resource Management, Mawlana Bhashani Science and Technology University, Tangail, Bangladesh	Seminar Room-1, Dept. of ESRM
11:05am – 12:45pm (12.01.2025; Sunday)	Parallel Session-1 (Oral Presentations): Chair: Professor Dr. A.S.M. Saifullah Co-Chair: Ms. Rezunana Afrin Rapporteur: Mr. Md. Humayun Kabir ER-OP-04: Unveiling Heavy Metal Pollution Dynamics and Risks in Roadside Dusts of Bogura Urban Area in Bangladesh Using Multi-indices Approach S. Kormoker, R. S. Shammi, T. R. Tusher, M. S. Islam, M. M. M. Hoque, N. T. Meghla and M. H. Kabir ER-OP-19: Elemental Investigations in the Fish Scales: A Potential Environmental Bioindicator M. S. Parvez, E. Simon, and H. Czédli ER-OP-34: Scenario of Environmental Pollution by Legacy and	Seminar Room-1, Dept. of ESRM

Date & Time	Event	Location of Event
	Emerging Contaminants in Bangladesh: Research Needs and Scope for Policy Interventions S. J. Tuly and T. R. Tusher ER-OP-36: Organochlorine Pesticide Residues in Fruits and Vegetables of Bangladesh: Occurrence, Metabolite Profiling, and Human Health Implications K. S. Adnen, S. J. Sweety, S. S. Tisha, M. M. Hoque and T. R. Tusher ER-OP-37: Nutrient Loading and Environmental Risks: The Impact of Phosphorus and Nitrogen from Cage Aquaculture in Bangladesh F. S. Bristy, M. A. Hossain, F. R. Udoy and M. S. A. Sarker ER-OP-44: Assessment of Organochlorine Pesticides in Vegetables and Fruits Collected from Local Market, Tangail Sadar S. S Tisha and M.M Hoque ER-OP-46: Estuarine Water Quality and Biodiversity Indexing in the Southern Middle Coast of Bangladesh M. M. H. Choity, A. S. M. Saifullah, M. J. Uddin, M. H. Jony and M. E. Hossain ER-OP-48: Appraisal of Physico-chemical and Biological Status of Estuarine Water Quality towards Classification of Estuary in the South Western Coast of Bangladesh M. H. Jony, A. S. M. Saifullah, M. J. Uddin, M. M. H. Choity, M. N. Hossain and M. S. Kabir	
11:05am – 12:45pm (12.01.2025; Sunday)	Parallel Session-2 (Oral Presentations): Chair: Dr. Mahmuda Binte Latif Co-Chair: Mr. Md. Shemul Sheikh Rapporteur: Mr. Muhammad Jasim Uddin ER-OP-05: Monitoring Long-term Waterbody Degradation in Rajshahi City Corporation Using GIS and Remote Sensing Techniques M. I. Firoz and M. L. R. Sarker ER-OP-06: Habitats around the Nijhumdwip Island of Hatia, Noakhali, Bangladesh. M. H. Islam, M. E. Hasan and F. Ahammad ER-OP-08: Climate Change, Shoreline Dynamics and Future Land Loss Projections: Kutubdia Island for Sustainable Coastal Management E. Hossain, F. J. Tahia, A. R. Siemens, M. S. Islam, Z. Rahman and I. Ahmed ER-OP-10: Ecosystem-Based Adaptation in Bangladesh: The Role of Forests and Trees in Building Resilience to Climate Change L. A. Aktar, S. M. R. Jubair and M. N. Sadath ER-OP-28: Morphological Evolution of Sandwip Island, Bangladesh: A Geospatial Approach S. Paul, S. Muntahrin, N. Rudra and M. M. Uddin	Seminar Room-2, Dept. of ESRM

Date & Time	Event	Location of Event
	ER-OP-39: Towards Achieving the Sustainable Development Goal 13.1 (Climate Action): A Case Study on Small-Scale Fishing Community's at Patuakhali District in Bangladesh N. Sultana and M. M. Shamsuzzaman ER-OP-40: Exploring the Spatio-temporal Change Detection of LULC Using GIS Approach in Bangladesh (2017 to 2023) M. I. Tonmoy, E. Hossain, J. S. Haque and F. J. Tahia ER-OP-47: Modeling Flood Vulnerability: Spatial Dynamics of Risk and Livelihoods in Narsingdi District, Bangladesh Z. Rahman, A. R. Siemens, M. S. Islam, E. Hossain, I. Ahmed, S. Debnath and F. J. Tahia ER-OP-49: Quantifying the Impact of Light Pollution on Biodiversity: A Geographical Investigation on Chattogram Hilly Area E. Barua, M. N. Kabir and M. A. Islam	
10:45am – 11:05am (12.01.2025; Sunday)	Sub theme: Crime, Victims and Criminal Justice Session Speaker: Mr. Monirul Islam, Senior Judicial Magistrate, Chief Judicial Magistrate Court, Tangail. Title, “Punishment, Correction and Prison Administration: The legacy of Human Rights and Criminal Justice System in Bangladesh” Moderator: Dr. Mst. Nurjahan Khatun, Associate Professor, Department of Criminology and Police Science, Mawlana Bhashani Science and Technology University, Tangail, Bangladesh	Room-406, Dept. of CPS
11:05am – 12:45pm (12.01.2025; Sunday)	Session-1 (Oral Presentations): Chair: Dr. Mst. Nurjahan Khatun Co-Chair: Ms. Nelufer Yesmen Rapporteur: Ms. Sumona Sharmin CP-OP-03: The Role of Smart Policing in Crime Prevention and Public Safety in Bangladesh: Evidence from the Dhaka Metropolitan Area A. Kalam and M. Al-Mamun CP-OP-07: The Emerging Threat of Unlawful AI Usage: An In-Depth Content Analysis M. M. Nabi and M. Akter CP-OP-08: Ragging Among University Students at MBSTU: An Analysis of Its Nature and Patterns I. J. Dipu and M. I. A. Talukder CP-OP-17: Challenges and Gaps in Bangladesh's Legal Framework for Combating Human Trafficking: An Analysis F. Fariha and M. A. Alam CP-OP-18: Why Do We Need to Rethink Civil Society in The Context of Bangladesh? M. Islam and M. L. Hossain	Room-406, Dept. of CPS

Date & Time	Event	Location of Event
	CP-OP-19: Prison Violence: Nature, Causes and Preventive Measures A. M. Ismail and N. Khatun CP-OP-21: Impact of Cybercrime Tribunal on Crime Prevention: An Empirical Study in Bangladesh R. Siddiqua and M. T. Rahman CP-OP-23: Transforming Stress into Strength: An Investigative study to Develop Psychological Framework for Bangladeshi Police Officers M. Akter and M.O. Faruk	
10:45am – 11:05am (12.01.2025; Sunday)	Sub theme: Food, Nutrition and Nutraceuticals Session Speaker: Dr. Mohammad Gulzarul Aziz, Professor, Department of Food Technology and Rural Industries, Bangladesh Agricultural University, Mymensingh 2202, Bangladesh. Title: “Zero Waste Processing of Mustard: A Traditional Oilseeds of Bangladesh” Moderator: Dr. A. K. Obidul Huq, Professor, Department of Food Technology and Nutritional Science, Mawlana Bhashani Science and Technology University, Tangail, Bangladesh	Gallery Room-506, Dept. of FTNS
11:05am – 12:45pm (12.01.2025; Sunday)	Parallel Session-1 (Oral Presentations): Chair: Professor Dr. A. K. Obidul Huq Co-Chair: Mr. Md. Mesbah Uddin Talukder Rapporteur: Mr. Md. Sajib Al Reza FN-OP-15: Assessing the Nutritional Status and Health Outcomes of Women and Children in Rajshahi, Bangladesh: A Comprehensive Study M. R. Alam FN-OP-16: Effects of Cooking Techniques on Proximate Composition, Bioactive Compounds and Antioxidant Activity of <i>Spinacia oleracea</i> I. Uddin, S. Jannat, M. I. Badhon, S. A. Dipty, A. Mannan, M. A. Haque and A. K. O. Huq FN-OP-17: Quantification of Pesticide Residues in Raw Fruits by GC-ECD and Assessment of Health Risk in Children and Adults S. Yasmin, L. N. Lata, M. S. H. Khan and L. Bari FN-OP-18: Impacts of Dragon Fruit and Pineapple Peel Powder as Feed Additives on Productive Performances and Hematological Indices in Broiler Chickens A. K. Mondal, M. S. Islam, M. M. Raman, M. S. Islam, K. K. I. Khalil, A. B. M. R. Bostami, M. M. Rahman, M. H. Nirob and M. S. Hossain FN-OP-19: A Comprehensive Assessment of the Current Status and Challenges in Rice Milling Industries in Tangail, Bangladesh R. Kumar, K. Sarker, M. Liton, B. Bala, M. R. Hasan and R. Begum	Gallery Room-506, Dept. of FTNS

Date & Time	Event	Location of Event
	FN-OP-20: Effectiveness of Calorie Restriction Diet in Overweight and Obese Young Adults without Co-morbidity in Dhaka City J. P. Biswas, U. S. Farshi, U. Batul, J. S. Mim, N. A. Jahan and A. K. O. Huq FN-OP-21: Transformation of Passion Fruit Wastes into Value-Added Products Towards a Sustainable Environment: A Review M. A. Hossain, M. Islam, M. A. Mia, M. H. Rahman, S. K. Biswas, M. H. Fahim, M. N. Haque, I. Ahmad, M. F. Azom and R. Begum	
11:05am – 12:45pm (12.01.2025; Sunday)	Parallel Session-2 (Oral Presentations): Chair: Professor Dr. Lutfunnesa Bari Co-Chair: Mr. Khan Md. Murtaja Reza Linkon Rapporteur: Mr. Md. Esrafil FN-OP-22: Effects of Stevia (<i>Stevia rebaudiana</i>) Leaf Extracts on the Quality and Shelf Life of Refrigerated Catla (<i>Gibelion catla</i>) Fillets M. A. Dulal, A. Kundu and A. K. M. Azad Shah FN-OP-23: Effect of Brown HT (E155) on Adult Female Rats: Breast Cancer Risk Assessment N. C. Mahat, T. M. Islam, I. A. Shaker and A. K. Tang FN-OP-24: Use of Artificial Intelligence in Dietary Strategies to Manage and Prevent Long-Term Diseases N. A. Shanto, S. A. Ananna, A. Omi and M. Ahmmmed FN-OP-25: Evaluation of Growth Performance, Immune Response and Disease Resistance of Stinging Catfish (<i>Heteropneustes fossilis</i>) Cultured in Biofloc System with Various Carbon Sources F. R. Udoy, M. A. Hossain, F. S. Bristy, M. Das and M. R. Banu FN-OP-26: Development and Quality Evaluation of Biscuits Enriched with Foods having Galactagogue Effects for Lactating Mothers K. Akter, M. Islam, M. A. Haque, M. M. Bashar, M. Ahiduzzaman and R. Begum FN-OP-27: Smart Food Plate Image Method: A New Technique for Dietary Assessment of Type-2 Diabetic Patients A. Mannan, A. K. Urmi, T. Tasnim, A. N. M. B. Rahim and A. K. O. Huq FN-OP-28: Microwave-assisted Extraction and Separation of Proteins and Lipids from Peanuts for the Formulation of Peanut Butter F. Chowdhury, R. A. Rob, S. Ansari, T. A. Pinki and A. K. O. Huq	Gallery Room-508, Dept. of FTNS

Date & Time	Event	Location of Event
10:45am – 11:05am (12.01.2025; Sunday)	Sub theme: Recent Advances in Biotechnology Session Speaker: Dr. Md. Shahidul Haque, Professor, Department of Biotechnology, Bangladesh Agricultural University, Mymensingh, Bangladesh. Title: “Challenges of Bangladesh Agriculture and Mitigation by Biotechnological Approaches” Moderator: Dr. Ashraf Hossain Talukder, Professor, Department of Food Technology and Nutritional Science, Mawlana Bhashani Science and Technology University, Tangail, Bangladesh	Seminar Hall, Dept. of BGE
11:05am – 12:45pm (12.01.2025; Sunday)	Session-1 (Oral Presentations): Chair: Professor Dr. Ashraf Hossain Talukder Co-Chair: Professor Dr. Animesh Sarker Rapporteur: Ms. Fatama Tous Zohora BG-OP-08: Nature’s Oil Warriors: Unearthing Biosurfactant-Producing Bacteria from Industrial Waste U. F. T. Amina, K. R. Sultana and S. M. Elias BG-OP-09: Bacteriophage as Potential Biocontrol Agent Against Multi-Drug Resistant (MDR) Bacteria M. A. Masud, S. Mahmud, M. Fakruddin and S. A. I. Ahmad BG-OP-10: Resilient Crops for a Sustainable Future: Improving Submerge Tolerance in Indica Rice (<i>Oryza sativa</i> L.) Through Genetic Transformation with OsSUB1A1 and OsSK1 genes J. F. Rahman, M. H. Hoque, M. N. Hasan, Z M T. I. Shijan, S. Sultana, M. E. Hoque, J. Ferdous and S. H. Prodhan BG-OP-11: Therapeutic Potential of Sulphated Polysaccharides from <i>Gracilaria tenuistipitata</i>: Impact on Diarrhea and Liver Fibrosis in Mice M. A. Islam, S. Sarkar, S. Samin, U. Mahfuza, M. Islam, M. H. Limon, M. Raisa, F. Noor and M. R. Karim BG-OP-12: A Computational Approach to Screen Bioactive Compounds from <i>Annona muricata</i> against The Key Regulators of Certain Cancers T. B. T. Nodi, S. Rahman and A. Sarker BG-OP-13: Impact of Local Probiotics on <i>C. elegans</i> Fertility and Longevity and Evaluation of Antimicrobial Resistance Patterns: <i>in-vitro</i>, <i>in-vivo</i>, and <i>in-silico</i> Methods K. M. T. Islam, S. Akter, F. R. Farin, M. M. Morshed, A. Dutta, M. R. I. Rubat and M. M. Rahman BG-OP-14: Comprehensive Molecular Analysis of Cancer Stem Cell Genes in Circulating Tumor Cells F. T. Zohra, R. A. Nahian, A. K. Paul, A. A. Mamun and A. Shakira	Seminar Hall, Dept. of BGE

Date & Time	Event	Location of Event
10:45am – 11:05am (12.01.2025; Sunday)	Sub Theme: Drug Discovery and Personalized Medicine Session Speaker: Dr. Mamunur Rashid, Professor, Department of Pharmacy, Rajshahi University, Rajshahi, Bangladesh. Title: “Examining the Cardioprotective Effects of Native Plants High in Polyphenols: Consequences for the Treatment of Left Ventricular Hypertrophy” Moderator: Dr. Mohammad Salim Hossain, Professor, Department of Pharmacy, Noakhali Science and Technology University, Noakhali, Bangladesh	Gallery -1, Dept. of Pharmacy
11:05am – 12:45pm (12.01.2025; Sunday)	Session-1 (Oral Presentations): Chair: Professor Dr. Mohammad Salim Hossain Co-Chair: Dr. Nurul Islam Rapporteur: Mr. AHM Mazbah Uddin PH-OP- 02: Development of Canagliflozin Loaded Nanoemulsion for Enhanced Drug Release and Improved Diabetic Management U. Saha, M. R. I. Khan, M. K. Ghosh and R. K. Barman PH-OP-10: Autophagy in Health and Disease: Holistic History and Natural Product Mediated Therapeutic Opportunities M. A. A. Al-Bari PH-OP-16: Potentiation of Obsolete Antibiotic Efficacy by Drug Repurposing Zinc Gluconate and Desloratadine against Resistant Pathogenic Bacteria R. Mia, R. H. Rafi, R. I. Khan and M. A. A. Al-Bari PH-OP-18: Antioxidant, Analgesic & Antipyretic Activities of <i>Diospyros malabarica</i> Leaf Extract in Mice S. Tasneem, A. A. Shameem and M. A. Ali PH-OP-20: Expression Analysis of Three Novel Candidate Genes in Breast Cancer Patients of Bangladesh M. Moniruzzaman, M. A. Kader, M. R. Akter, M.R. Ahmed, S. Akter, U. S. M. Amin, M. F. Karim, K. C. Das and M. Salimullah PH-OP-25: Design and Synthesis of Thiazolyl Coumarin Derivatives as Anticancer and Antibiotic Agent: In silico, ADMET and Thermodynamic Properties Study T. R. Singdha, S. I. Sakib, A. K. Sarker, M. Das and M. A. K. Liton PH-OP-27: The Role of Single Nucleotide Polymorphism of PDGFD (rs974819) Gene on the Risk of Coronary Heart Disease in Bangladeshi Population Mst. Sathi, M. M. R. Moghal, K. M. K. Kibria and M. Shakil	Gallery -1, Dept. of Pharmacy

Date & Time	Event	Location of Event
10:45am – 11:05am (12.01.2025; Sunday)	Sub theme: Innovations in Biochemistry and Molecular Biology Session Speaker: Md. Atiar Rahman PhD, Professor, Department of Biochemistry and Molecular Biology, University of Chittagong, Chittagong, Bangladesh. Title: “Functional Foods in Noncommunicable Diseases: Data-driven Approach to Address the Challenges of a Paradigm-shift” Moderator: Dr. Mohammad Johirul Islam, Associate Professor, Department of Biochemistry and Molecular Biology, Mawlana Bhashani Science and Technology University, Tangail, Bangladesh	Gallery Room, Dept. of BMB
11:05am – 12:45pm (12.01.2025; Sunday)	Parallel Session-1 (Oral Presentations): Chair: Dr. Mohammad Johirul Islam Co-Chair: Ms. Marina Khatun Rapporteur: Ms. Mohammad Kamruzzaman BM-OP-09: Highly Sensitive Electrochemical Biosensor Using SWCNT and PdNPs Decorated Chitosan for Selective Paracetamol Detection M. H. Rahman, M. S. Hossain, N. I. Nayem, and M. A. Rashed BM-OP-10: Gold Nanoparticles/Single wall carbon nanotubes/Copper oxide-Nickel oxide Nanocomposite based Electrocatalyst for Simultaneous Determination of 4-Aminophenol, Dopamine, and Acetaminophen Biomolecules M. A. Rashed, M. H. Rahman and F. A. Harraz BM-OP-11: <i>In silico</i> Identification and Characterization of Novel Drug Targets in <i>Treponema denticola</i> (strain atcc 35405 / dsm 14222 / cip 103919 / jcm 8153 / kctc 15104): A subtractive Genomics Approach R. K. Chowdhury, S. M. Billah, M. B. Meem, M. H. Mahi, T. Zaman, S. K. Onia, A. F. Ishita and M. M. Hossain BM-OP-12: PHLPP1 Depletion Promotes Tumorigenesis and Stemness in Triple-Negative Breast Cancer Cells through AKT Signaling M. A. Haque BM-OP-13: Identification of Shared Key Genes (sKGs) between Type 2 Diabetes and Kidney Cancer for Diagnosis, Prognosis and Therapies R. Ahmmed, U. S. Antu and M. A. Islam BM-OP-14: Secrets of Termite Longevity Z. Tamannaa, M. A. Kabir, S. Rahman, N. J. Bushra, and R. Hasan BM-OP-15: Genome-wide identification, characterization, and analysis of <i>Dof</i> gene family in sesame (<i>Sesamum indicum</i> L.) M. N. Hasan and M. A. Rahim BM-OP-16: Exploring <i>Allium sativum</i> as a Potential Antimicrobial Alternative to Antibiotics Showing Efficacy against Several	Gallery Room, Dept. of BMB

Date & Time	Event	Location of Event
	Pathogenic Bacterial Strains: An <i>in vitro</i> & <i>in vivo</i> Study N. Rahman, S. N. Priya, M. F. I. Fahim, M. Islam, A. H. M. Kamal, M. S. Rahman, M. Kamruzzaman, F. A. Nobel and M. J. Islam	
1:00pm – 2:00pm (12.01.2025; Sunday)	Lunch	Ground Floor, Academic Building-3
2:00pm – 4:30pm	Day-2 Session-2	
2:00pm – 2:20pm (12.01.2025; Sunday)	Sub theme: Environmental Health and Climate Resilience Session Speaker: Dr. Mohammad Zahangeer Alam , Professor, Department of Environmental Science, Bangabandhu Sheikh Mujibur Rahman Agricultural University (BSMRAU), Gazipur, Bangladesh. Title: “ Microplastic in the Environment: Present Status, Challenges, and Mitigation ” Moderator: Ms. Nowara Tamanna Meghla , Associate Professor, Department of Environmental Science and Resource Management, Mawlana Bhashani Science and Technology University, Tangail, Bangladesh	Seminar Room-1, Dept. of ESRM
2:20pm – 4:00pm (12.01.2025; Sunday)	Parallel Session-3 (Oral Presentations): Chair: Ms. Nowara Tamanna Meghla Co-Chair: Dr. Tanmoy Roy Tusher Rapporteur: Ms. Mehnaz Abbasi Badhan ER-OP-03: Assessing Macro-plastic Pollution in the Kalni-Kushiyara River, Bangladesh: Implications for Environmental Sustainability and Public Health M. A. A. M. Hridoy, S. Neogi, A. Masood, F.R. Zhu, Z. Sa'adi and S. Hossain ER-OP-13: Hydro-Chemical Parameters Evaluation of Groundwater and Gradient of Salinity Intrusion in the Coastal Aquifers of Southern Part of Bangladesh M. S. Al Hossain, N. T. Meghla, M. M. Rahman and N. Hasan ER-OP-14: Hydrogeochemical Investigation for Drinking and Irrigation Application with Water Table Dynamics in North Western Region of Bangladesh and its Relationship to Regional Rainfall Pattern N. Hasan, N. T. Meghla, M. M. Rahman and M. S. Al Hossain ER-OP-16: Delineating Groundwater Depletion and Rainwater Harvesting in the Central Barind Tract of Bangladesh: Prospects, Impacts and Challenges M. M. H. Roni, J. Naim, M. S. Khan, S. Tawsif and S.K. Paul ER-OP-17: Interaction Study of Microplastic and Zinc in Soil and Their Relevant Effect on Soybean Growth S.S. Jahan, S.S. Dutta and S. Hossain ER-OP-24: Plastics as Vectors for Chemical Pollutants in Marine Environments of Southeast Asia, South Asia, and East Asia: A Comprehensive Systematic Review T. R. Mim, M. A. A. M. Hridoy, A. Masood, C. Bordin, F. Z. Tagri, I.	Seminar Room-1, Dept. of ESRM

Date & Time	Event	Location of Event
	Ullah and B. A. Olalekan ER-OP-30: Assessing the Impact of Cyclone ‘Remal’ Induced Storm Surges on Soil and Water Salinization in a Coastal Region of Bangladesh T. Habiba and M. A. Miah ER-OP-41: Knowledge, Attitude and Practice on Water, Sanitation, and Hygiene among School Children in Dhaka City R. Ahmed, N. A. Shahed and N M R. Nasher ER-OP-42: Assessment of Ground Water Quality Collected from Educational Institutions in Kaliakair Upazila, Gazipur towards Indexing and Health Risk Determination M. E. Hossain, M. N. Haque and A. S. M. Saifullah	
2:20pm – 4:00pm (12.01.2025; Sunday)	Parallel Session-4 (Oral Presentations): Chair: Professor Dr. Mir Md. Mozammel Hoque Co-Chair: Mr. Muhammad Jasim Uddin Rapporteur: Mr. Md. Azharul Haque Chowdhury ER-OP-15: Spatial and Temporal Changes of Methane (CH₄) Emission and Its Seasonal Variation in Dhaka City, Bangladesh J. Begum and M. M. M. Hoque ER-OP-18: Spatial and Diurnal Variation of Air Pollutants in Residential, Industrial, and Commercial Areas of Gazipur City, Bangladesh S. S. Tania, M. R. Ali and M. M. M. Hoque ER-OP-22: Intelligent System for Eco-Friendly Coastline Cleanup and Waste Management: Enhancing Technology for Coastal Cleanup and Environmental Protection F. B. Zaman, H. J. Prioty, A. M. and M. Islam ER-OP-26: New record of New Coral reef site in the Bay of Bengal: A new hope for marine tourism as well as blue economy of Bangladesh M. H. Islam, F. Ahammad and S. Ahmed ER-OP-27: Comparative Study of Air Quality in Residential Buildings With and Without Rooftop Gardens in Some Selected Areas of Dhaka City, Bangladesh A. Z. Dia and M. Y. Mia ER-OP-33: Exploring the Association between Arsenic Exposure and Serum Angiotensin Converting Enzyme and its Implication in Hypertension S. Hossain, Z. A. Saud and K. Hossain ER-OP-35: Study of Sensible Heat Fluxes Contribution to Tropical Cyclone Fani (2019) over the Bay of Bengal using WRF Model U. K. Pal, A. K. M. Mallik and H. M. A. R. Maruf ER-OP-38: Exposure to Cobalt Chloride Alters the Hemato-Biochemical Indices and Morphology of Erythrocytes in Stinging	Seminar Room-2, Dept. of ESRM

Date & Time	Event	Location of Event
	Catfish <i>Heteropneustes fossilis</i> F. S. Bristy, M. A. Hossain, M. Das, F. R. Uday, M. S. A. Sarker and M. Jebin ER-OP-52: Construction Noise and Its Impact on Resident Well-being in Rajshahi City M. A. Hasan and M. A. K. Azad	
2:00pm – 2:20pm (12.01.2025; Sunday)	Sub theme: Crime, Victims and Criminal Justice Session Speaker: Dr. Sarker Omar Faroque, Director (Academic), Police Staff College Bangladesh, Mirpur-14, Dhaka, Bangladesh. Title: “Policing Green Crime in Bangladesh: A Green Criminology Perspective in the Global South” Moderator: Dr. Md. Ishtiaq Ahmed Talukder, Associate Professor, Department of Criminology and Police Science, Mawlana Bhashani Science and Technology University, Tangail, Bangladesh	Room-406, Dept. of CPS
2:20pm – 4:00pm (12.01.2025; Sunday)	Session-2 (Oral Presentations): Chair: Dr. Md. Ishtiaq Ahmed Talukder Co-Chair: Dr. Rukhsana Siddiqua Talukder Rapporteur: Ms. Nelufer Yesmen CP-OP-09: Legal Cynicism among Street People in Dhaka City S. R. Haque and M. A. K. Miah CP-OP-16: The Dynamics of Juvenile Violence: Intersection of Violent Peers, Neighborhood Disorganization and Substance Abuse. M. B. U. Khan and T. Yanwen CP-OP-22: Key Influences Shaping Juvenile Gang Culture in Bangladesh Z. I. Hasan and M. O. Faruk CP-OP-25: Authoritarianism and Violence in Bangladesh: Human Rights Violations and the Erosion of Democracy (2009–2024) M. L. Hossain, M F. Mia, M Islam, and M.A. Alam CP-OP-27: The Causes and Consequences of Secondary Victimization: A Study on Homicide Victims M. O. Faruk and R. A. Trisha CP-OP-28: Cyber Sexual Violence and Consequence of Adolescent: A Study on Tangail District S. K. Tanoja CP-OP-29: Political Unrest of Hindu Minorities After the Anti-Discrimination Movement in Bangladesh 2024. P. R. Das and R. Siddiqua CP-OP-30: Crime, Society and Awareness in Bangladesh: A Holistic Analysis of Trends and Interventions N. Ibrahim, M. S. Islam, S. J. Shifa, S. M. N. Ahasan and M. M. Ahmmed	Room-406, Dept. of CPS

Date & Time	Event	Location of Event
	CP-OP-31: Legal Barriers and Challenges of Press Freedom in Bangladesh: A Criminological View M. O. Faruk and N. A. A. Nuhas	
2:00pm – 2:20pm (12.01.2025; Sunday)	Sub theme: Food, Nutrition and Nutraceuticals Session Speaker: Dr. S M Rafiquzzaman, Professor, Faculty of Fisheries, Bangabandhu Sheikh Mujibur Rahman Agricultural University (BSMRAU), Gazipur, Bangladesh. Title: “Unveiling Bangladesh’s Seaweed Potential: A Gateway to Functional and Bioactive Innovations” Moderator: Dr. Md. Azizul Haque, Professor, Department of Food Technology and Nutritional Science, Mawlana Bhashani Science and Technology University, Tangail, Bangladesh	Gallery Room-506, Dept. of FTNS
2:20pm – 4:00pm (12.01.2025; Sunday)	Parallel Session-3 (Oral Presentations): Chair: Professor Dr. Md. Azizul Haque Co-Chair: Ms. Farhana Akther Rapporteur: Mr. Ielias Uddin FN-OP-29: Adulteration of Fruits and Vegetables and their Possible Identifying Techniques S. Jannat, A. K. O. Huq, A. Mannan, M. U. Talukder, I. Uddin and M. N. Rahman FN-OP-30: Green Synthesis and Characterization of Copper Oxide Nanoparticles Using Peanut (<i>Arachis hypogaea</i>) Shell Extract and Evaluation of its Functional Properties J. Moksud, M. F. Islam, A. K. O. Huq and M. H. R Bhuiyan FN-OP-31: Green Synthesis and Characterization of Manganese Dioxide Nanoparticles using Pineapple (<i>Ananas comosus L.</i>) Peel Extract and Evaluation of its Antioxidant, Antibacterial and Antidiabetic Properties U. S. Nahida, M. F. Islam, A. K. O. Huq and M. N. I Bhuiyan FN-OP-32: Dragon Fruit Disease Detection Using Deep Learning for Enhancing Food Quality and Nutrition M. J. N. Juthy, M. N. Aktar, M. F. Hosen and M. S. Uddin FN-OP-33: Identifying the Determinants of Overweight or Obesity Among Ever- Married Women in Bangladesh Z. T. Usha and D. J. Moloy FN-OP-34: Minimum Dietary Diversity for Women (MDDW) and Household Food Consumption Pattern: A Baseline Study in Tangail and Mymensingh District, Bangladesh M.U. Talukder, P. K. Sarker, K.K. Paul, A. K. O. Huq and S. Zebsyn FN-OP-35: Assessment of Knowledge, Attitude and Practices Regarding Food Hygiene and Sanitation Among Mawlana Bhashani Science and Technology University (MBSTU) Campus	Gallery Room-506, Dept. of FTNS

Date & Time	Event	Location of Event
	Dining Area Personnel: A Cross-Sectional Study A. Chowhan, M. R. Khatun, M. M. S. Saema, T. Haque, S. I. Shuchy, M. R. Hasan and F. Akther FN-OP-36: Evaluation of Nutritional Composition, Phytochemicals and Functional Properties of Banana Pseudostem and Its Utilization in Making Value Added Breads Nesa, S. Islam, M. J. Nesa, K. N. Tania, S. A. Reza and M. A. Zubair	
2:00pm – 2:20pm (12.01.2025; Sunday)	Sub theme: Recent Advances in Biotechnology Session Speaker: Dr. Md. Fazlul Karim, Professor, Department of Biotechnology and Genetic engineering, Mawlana Bhashani Science and Technology University, Santosh, Tangail, Bangladesh. Title: “SIRT7-mediated Regulation of TR4 Degradation: A Key Mechanism in Lipid Metabolism” Moderator: Dr. A. K. M. Mohiuddin, Professor, Department of Biotechnology and Genetic Engineering, Mawlana Bhashani Science and Technology University, Tangail, Bangladesh	Seminar Hall, Dept. of BGE
2:00pm – 2:30pm (12.01.2025; Sunday)	Parallel Session-2 (Oral Presentations): Chair: Professor Dr. A. K. M. Mohiuddin Co-Chair: Dr. Shah Adil Ishtiyag Ahmad Rapporteur: Dr. Abu Zaffar Shibly BG-OP-15: A Reverse Vaccinology Approach for the Design of Dual mRNA Vaccines: Targeting Measles Antigens and Conserved Sequences from Measles, Mumps, and Rubella Viruses Using Molecular Docking, Dynamics and Immune simulations A. Barua, A. A. Mahdeen, and M. H. U. Masum BG-OP-16: Exploration of TbpA-Based Multi-Epitope Vaccine for <i>Neisseria gonorrhoeae</i> Using Immunoinformatic Approaches O. A. Vabna, P. Choudhury, S. Moontaha, M. A. Hossain and S. Rahman BG-OP-17: High Prevalence of Antibiotic-Resistant Genes in Water Bodies of Bangladesh T. A. Khan, H. A. Mahee, S. Das, Y. H. Maruf, E. M. S. Bristhy and P. Jain BG-OP-18: In-silico Analysis of Deleterious nsSNPs in PALB2 and Their Impact on Cancer Susceptibility M. M. Hossain, A. Ferdoushi and M. F. Karim BG-OP-19: Study of the Effects of <i>Coccinia grandis</i> and <i>Stevia rebaudiana</i> leaves on Antidiabetic Potential in Swiss Albino Mice N. J. Jim, M. I. Hossain, J. B. Habib, J. Toppo BG-OP-20: Isolation, Characterization and Evaluation of PGP-Activities of Bacterial Endophytes from <i>Pongamia pinnata</i> (Koroch) R. Sultana, M. F. Akter, M. M. R. Shepon, M. T. Islam, I. J. Dristy, N. Jahan, S. H. Prodhan and H. Hoque	Seminar Hall, Dept. of BGE

Date & Time	Event	Location of Event
	BG-OP-21: Rapid Molecular Approach for Simultaneous Detection of Different Diarrheal Pathogens and Characterization of <i>Shigella</i> spp. M. M. Mitu, S. R. Bormon, H. N. Ifa, I. Aziz, N. Akter, M. T. R. Toha, S. T. Shoshy, A. N. M. Tamim, A. Sen, S. S. Adrita and A. H. Talukder	
2:00pm – 2:20pm (12.01.2025; Sunday)	Sub Theme: Drug Discover and Personalized Medicine Session Speaker: Dr. Md. Mustafizur Rahman, Professor, Pharmacy Discipline, Director of Institutional Quality Assurance Cell (IQAC), Khulna University, Khulna, Bangladesh. Title: “miR-27a Negatively Regulates hHB-EGF in Ovarian Cancer” Moderator: Dr. Mamunur Rashid, Professor, Department of Pharmacy, Rajshahi University, Rajshahi, Bangladesh.	Gallery -1, Dept. of Pharmacy
2:20pm – 4:00pm (12.01.2025; Sunday)	Session-2 (Oral Presentations): Chair: Dr. Mamunur Rashid, Co-Chair: Dr. Md. Hazrat Ali Rapporteur: Mr. Md. Aatur Rahman PH-OP-08: XXL is the Size of Problem: Browning of Adipose Tissue and Attenuated Expression of Adhesion Molecule Combat Metabolic Syndrome I. Ahmad, T. Hossain, K. N. Jenni, H. K. Munni, D. Das and M. S. Hossain PH-OP-11: Synthesis of 2-pyrazolines from Coumarin-based Chalcone Derivatives as Potential Anticancer Agents: DFT and Molecular Docking M. S. Miya, M. Das, M. A. K. Liton and A. K. Sarker PH-OP-13: Optimizing Lung and Colon Cancer Diagnosis of Histopathological Images Using Transfer Learning and Fine-Tuning in Pretrained Convolution Neural Networks R. Mia and M. S. Hossain PH-OP-28: <i>In silico</i> Analysis of Pathogenic SNPs in Human XRCC1 Gene: Impact on XRCC1 Protein and Cancer N. Comonichi, M. F. Karim, A. Ferdoushi and G. M. N. A. Jewel PH-OP-29: Exploring the Cardioprotective Properties of Cayratia trifolia Leaves in Preventing Left Ventricular Hypertrophy in Rats. M. S. Islam, I. Hossain, F. Sharmin, K. Khanom, S. Hossain, A. H. M. K. Alam and M. Rashid PH-OP-30: Modulating Antimicrobial Resistance Using Silymarin and Diclofenac as Adjuvants Against AMR Bacteria R. H. Rafi, R. Mia, M. R. I. Khan and M. A. A. Al-Bari PH-OP-31: Revolutionizing Antibiotic Production: Harnessing Amino Acid Solutions from Waste Human Hair to Combat	Gallery -1, Dept. of Pharmacy

Date & Time	Event	Location of Event
	Multidrug Resistance A.H. Chowdhury, A. S. M. Faisal and M. A. Miah PH-OP-32: Phytochemical Screening, Thrombolytic and Antioxidant Activities of the Different Extracts of <i>Crataeva Nurvala</i> T. Begum, M. Nasrin, M. B. Mia, J. F. Mahi, H. Akter, M. F. Islam and M. Ahsan	
2:00pm – 2:20pm (12.01.2025; Sunday)	Sub theme: Innovations in Biochemistry and Molecular Biology Session Speaker: Dr. Md Rezaul Karim, Professor, Department of Biotechnology and Genetic Engineering, Jahangirnagar University, Dhaka, Bangladesh. Title, “Therapeutic Potential of Sulphated Polysaccharides from <i>Gracilaria tenuistipitata</i>: Impact on Diarrhea and Liver Fibrosis in Mice” Moderator: Dr. Md. Khairul Islam, Associate Professor, Department of Biochemistry and Molecular Biology, Mawlana Bhashani Science and Technology University, Tangail, Bangladesh	Gallery Room, Dept. of BMB
2:20pm – 4:00pm (12.01.2025; Sunday)	Session-2 (Oral Presentations): Chair: Dr. Md. Khairul Islam Co-Chair: Dr. Saima Sabrina Rapporteur: Mr. Fahim Alam Nobel BM-OP-17: Response of Rhizomes of <i>Cyperus rotundus</i> against Multi-drug Resistance Bacterial Pathogens in Bangladesh- An <i>in vitro</i> Study. M. T. Islam, M. Kamruzzaman, F. A. Nobel, M. N Uddin and M. J. Islam BM-OP-18: Phytochemical Profiling and Larvicidal Evaluation of Indigenous Plants and Green-Synthesized Nanoparticles against <i>Aedes aegypti</i> M. Rahman, M. M. Akhi, T. M. Prome, Z. Rahman, J. Alam, I. J. Sourna, J. E. Ekra, M. S. Islam, M. M. Uddin, K. Watanabe and A. Islam BM-OP-19: Whole genome analysis of <i>Vibrio alginolyticus</i> strain RSM02 isolated from Bagda (Tiger shrimps) in Bangladesh M. H. Rahi, M. I. K. Masum, R. Jahan, F. Shahel, H. Hasanat, J. S. Jime, N. Bulbul, M. Fakruddin, and A. Safa BM-OP-20: Asymmetrical Reproductive Interference between <i>Aedes aegypti</i> and <i>Aedes albopictus</i>: Implications for Coexistence S. Afrin, T. Hasan, M. S. Islam, A. Sultana and A. Islam BM-OP-21: Isolation and Identification of <i>Listeria monocytogenes</i> from Raw Milk and Dairy Products across Dhaka City F. Shahel, Z. Nahar, R. Jahan, H. Hasanat, M. H. Rahi, M. I. K. Masum, J. S. Jime, N. Bulbul, M. Fakruddin and A. Safa BM-OP-22: Peroxisome Proliferator-Activated Receptor γ (PPAR-γ) Protein-Based Pharmacoinformatic and Molecular Dynamics	Gallery Room, Dept. of BMB

Date & Time	Event	Location of Event
	Simulation Approach to Identify Potential Phytochemicals of 214 Plants against Type-2 Diabetes M. M. H. Ratul^a, M. A. Raja, M. S. Hossain, N. Ahmed, M. Nasrulla, I. M. Taimur and M. A. Ali BM-OP-23: Targeting PRKN and SNCA for Dual-Target Pathway-Specific Therapeutics for Parkinson's disease: Ligand-Based 3D-QSAR, Pharmacophore, Quantum Chemistry, and AMDET Profiling A. Ahmed, M. A. Kader, M. F Karim, A. K. M. Mohiuddin, K. M. T. Islam and A. H. Talukder BM-OP-24: Silver nanoparticles synthesized from <i>Lannea coromandelica</i> attenuate lung inflammation and mucus hypersecretion by inhibiting MUC5AC gene expression M. R. Mahmud, A. Junayed, S. A. Sompa, M. R. Mogal, S. A. Lima, N. Kar, T. Tarin, F. Sultana, M. Khatun, M. K. Islam and M. A. Sikder	
4:00pm – 4:15pm (12.01.2025; Sunday)	Tea/Coffee Break	Dept. of ESRM Dept. of CPS Dept. of FTNS Dept. of BGE Dept. of Pharmacy Dept. of BMB
4:00pm – 5:00pm (12.01.2025; Sunday)	Concluding Session and Award Giving Ceremony	Conference Room, Floor-12, Academic Building-3

Abbreviation

ICALS: International Conference on Advancement of Life Sciences

ESRM: Environmental Sciences and Resource Management

CPS: Criminology and Police Science

FTNS: Food Technology and Nutritional science

BGE: Biotechnology and Genetic Engineering

BMB: Biochemistry and Molecular Biology

OP: Oral Presentation

PP: Poster Presentation