

37th BSM Annual Conference
Date : 26 - 27 January, 2024
Venue : Nawab Ali ChowdhurySenateBhaban
Program

Day 1: Friday, January 26, 2024	
08:00 - 09:00	Registration & Guests take their seat
Technical Session 1 (09:00 – 10:30 AM): One Health (OHA) at Senate Hall	
	Co-chairs: DrMunirulAlam, icddr,b, Dhaka & Prof DrSalequl Islam, Jahangirnagar University, Dhaka
09:00 - 09:20	OHA-K1: From Pandora's box to pandemic preparedness: Battling Nipah in Bangladesh, Dr. Mohammed Ziaur Rahman,One Health Laboratory, icddr,b, Dhaka.
09:20 - 09:30	OHA-O1: Correlation between biofilm formation and antibiotic resistance in clinical <i>Acinetobacterbaumani</i> isolates. TasnimulArabiAnik, Department of Microbiology, University of Dhaka, Dhaka
09:30- 09:40	OHA-O2: Identification of the multi-drugresistantgenes in the bacteriaisolatedfrom the saliva of smoker oral cancer patients and comparative analysiswithsmoker normal individuals. Samir Hasan, Biotechnology Program, Department of Mathematics and Natural Sciences, BRAC University, Bangladesh
09:40- 09:50	OHA-O3: Phenotypic and genotypiccharacterization of multidrug-resistant Gram-negativebacteriaisolatedfromclinicalsamples. SudiptaChowdhuryChaity, Department of Microbiology, University of Dhaka, Dhaka, Bangladesh
09:50- 10:00	OHA-O4: An Observationalstudy of hospitalwastewater and adjacent communitytap water identified Beta-lactamase-producing MDR Gram-negativepotentialpathogens in Dhaka, Bangladesh. NishatTasnimAnanna, Department of Mathematics& Natural Sciences; BRAC University, Dhaka, Bangladesh
10:00- 10:10	OHA-O5: Study on the occurrence of MBL-mediatedcarbapenemresistance in clinical<i>E. coli</i> and <i>Klebsiella</i>spp. isolatedfromSavar, Dhaka. Mir Mobin, Department of Microbiology, JahangirnagarUniversity, Savar, Dhaka-1342, Bangladesh
10:10- 10:20	OHA-O6: Antimicrobialresistance pattern of <i>Shigella</i>speciesisolatedfromdiarrheal patients aged 6-35 months in Dhaka, Bangladesh. Md Nazmul Hasan Rajib, International Centre for DiarrhoealDiseaseResearch, Bangladesh; Dhaka
10:20- 10:30	OHA-O7: Cholera toxin and O-specific polysaccharide immune responsesafter oral cholera vaccination withDukoral in differentage groups of Bangladeshi participants. Taufiqur Rahman Bhuiyan, InfectiousDiseases Division, icddr,b, Dhaka
Parallel Technical Session 2 (09:00 – 10:30 AM): Emerging & Vector-borne Diseases (EVD) at Seminar Room	
	Co-chairs: Prof Dr Mahboob Hossain, BRAC University, & Prof DrAnowara Begum, Department of Microbiology, DU
09:00 - 09:20	EVD-K2:An Update from Surveillance of Nipah virus infection in Bangladesh. Dr. Tahmina Shirin, Institute of Epidemiology, Disease Control and Research (IEDCR), Dhaka
09:20 - 09:30	EVD-O1: Molecular epidemiology of hepatitis B virus and mutational analysis of small HbsAg in clinically infected patients in Mymensingh region. Tasnim Islam, Department of Microbiology and Hygiene, Bangladesh Agricultural University, Mymensingh-2202
09:30- 09:40	EVD-O2: Hypervirulent <i>Klebsiella pneumoniae</i> isolates from suburban communities in Dhaka North City Area. Bithi Akter, Department of Microbiology, Jagannath

	University.
09:40- 09:50	EVD-O3: Dengue virus serotype-3 remains prevalent in 2022-Dengue outbreak in Dhaka City, Bangladesh. Rakibul Islam Shanto, Department of Microbiology, Jahangirnagar University, Savar, Dhaka-1342
09:50- 10:00	EVD-O4: Mass vaccination and aid restoration to pre-pandemic normality using computer aided 3D printing. Fahmida Alam, University of Science and Technology Chittagong 4202
10:00- 10:10	EVD-O5: Exploring the microRNA expression patterns in SARS-CoV-2 infected patients in Bangladesh. Abdul Hadi Nahid, Department of Microbiology, University of Dhaka, Dhaka
10:10- 10:20	EVD-O6: Diversity of antimicrobial resistance gene of typhoidal <i>Salmonella</i> clinical isolates from Bangladesh. Sadiqul Islam Rahman, icddr, Dhaka
10:20- 10:30	EVD-O7: Epstein-Barr virus BBLF1 regulates virus release and promotes lymphomagenesis. Md. Kamal Uddin, Department of Microbiology, University of Chittagong
10:30 - 11:00	Tea break
Poster Session (11:00-12:30 PM) at 2nd floor	
One Health, Emerging & Vector-borne Diseases, and Omics & Bioinformatics	
12:30 - 02:30	Jumma Prayer & Lunch
	Inaugural Ceremony at Senate Hall
02:30 - 02:35	Recitation from the holy Quran
02:35- 02:40	Welcome address by Professor Dr Md Majibur Rahman Professor, Department of Microbiology, DU and Chairman, Conference Organizing Committee (COC)
02:40- 02:45	Presidential Address by Professor Dr Donald James Gomes Professor, Department of Microbiology, DU and President, BSM
02:45- 02:50	Address of the Special Guest, Professor Dr AKM Mahub Hasan Dean, Faculty of Biological Sciences, DU
02:50- 03:00	Address of the Special Guest, Professor Dr Md Nural Anwar Vice Chancellor, Port City International University, Chittogram
03:00- 03:10	Address of the Special Guest, Professor Dr M Anwar Hossain Vice Chancellor, Jashore Science and Technology University, Jashore
03:10- 03:20	Conferral of Lifetime Achievement Award
03:20- 03:25	Citation read of Late Professor Dr Sirajul Islam Khan
03:25- 03:30	Citation read of Late Professor Dr Naiyyum Choudhury
03:30- 03:35	Citation read of Major General Professor Dr ASM Matiur Rahman (retired)
03:35- 03:45	Address of the Chief Guest, Professor Dr ASM Maksud Kamal Vice Chancellor, University of Dhaka, Dhaka
03:45- 03:55	Vote of Thanks by Professor Dr Anowara Begum Professor, Department of Microbiology, DU; General Secretary, BSM, and Secretary, Conference Organizing Committee
03:55 - 04:15	Afternoon Tea break
Plenary Session (04:15 – 05:30 PM)	

	Chair:Major General Professor Dr ASM Matiur Rahman Fellow, Bangladesh Academy of Sciences
04:15 - 04:50	Plenary lecture 1: Global warming and its impacts on the domain of Microbiology Professor DrAinunNishat, Professor Emeritus, Centre for Climate Change and Environmental Research (C3ER), BRAC University
04:50- 05:25	Plenary lecture 2: AMR Bangladesh Perspectives DrMunirulAlam Senior Scientist, Molecular Ecology and Metagenomic Laboratory, icddr,b

Day 2: January 27, 2024 (Saturday)

Technical Session 3 (09:00 – 10:30 AM): Omics & Bioinformatics (OBR) at Senate Hall	
	Co-chairs: Prof Dr Mohammad Jakir Hosen, Shahajalal University of Science and Technology, Sylhet & Prof DrTanvir Islam, Jashore University of Science and Technology
09:00 - 09:20	OBR-K3: Digital code of life: Genomic and Bioinformatic revolution shaping the world of tomorrow. Dr Md. Mizanur Rahaman, Department of Microbiology, DU
09:20 - 09:30	OBR-O1: Simulation and numerical analysis of drug delivery system due to electroporation in different types of unilamellar vesicles. Shovon Saha, Department of Physics, University of Barisal, Barisal-8254
09:30 - 09:40	OBR-O2: Microbiomeanalysisrevealed pet birdscarriedmicroorganismshavingpotentials for zoonosis. Jahangir Alam, Animal Biotechnology Division, National Institute of Biotechnology, Savar, Dhaka
09:40 - 09:50	OBR-O3: An immunoinformaticsapproach to epitope-based vaccine design againstPspC in <i>Streptococcus pneumoniae</i>. Mohammad Nahian, Department of Microbiology, Faculty of Life and Earth Science, Jagannath University, Dhaka
09:50 - 10:00	OBR-O4: Quantification of Major OperationalTaxonomicUnits of FecalMicrobiomefromthreedifferentCommunities in and around Dhaka City. TabassumBasher, Department of Microbiology, Faculty of Life and Earth Science, Jagannath University, Dhaka
10:00 - 10:10	OBR-O5: Genome of endophytic<i>Colletotrichumjohnstonii</i> TA17 from<i>Azadiractaindica</i> encodes novelantimicrobialsbiosyntheticpathways. DidarHossain, Department of Genetic Engineering and Biotechnology, ShahjalalUniversity of Science and Technology, Sylhet 3114
10:10 - 10:20	OBR-O6: Multi-epitope vaccine design againstemergingCapripox virus via reverse vaccinology techniques- a bioinformatics and immunoinformaticsapproach. Sadia JannatTauhida, Department of Genetic Engineering and Biotechnology, JashoreUniversity of Science and Technology, Jashore 7408
Parallel Technical Session 4 (09:00 – 10:30 AM): Environmental Research (ENR) at Seminar Room	
	Co-chairs:Dr. Zakaria Ahmed, Bangladesh Jute Research Institute, & Prof Dr Munawar Sultana, Department of Microbiology, University of Dhaka
09:00 - 09:20	ENR-K4: Antibiotic resistance: An emerging threat to public health and environment. Dr. Zahid Hayat Mahmud, Laboratory of Environmental Health, icddr,b, Dhaka.

09:20 - 09:30	ENR-O1: Exposure to commercial formulation of the pesticide Carbofuran induces resistance to cephalosporin in <i>Pseudomonas aeruginosa</i> : An in vitro study. Md. Sakib Chowdhury, Department of Mathematics and Natural Sciences, BRAC University, Dhaka
09:30 - 09:40	ENR-O2: Characterization of polyethyleneterephthalate (PET) plastic bottles associated bacteria and their degradation potentiality. Ms. Faozia Zannat, Department of Botany, University of Dhaka, Dhaka
09:40 - 09:50	ENR-O3: <i>Bacillus subtilis</i> from diverse environmental sources: A potential mosquito control agent against <i>Aedes aegypti</i> . Salsabeel Nahar Taib, Department of Biochemistry and Microbiology, School of Health and Life Science, North South University, Dhaka
09:50 - 10:00	ENR-O4: Unearthing chromium bioremediation prospects: Isolation of promising bacteria from the environment, Md. Asifur Rahman Shaon, Department of Microbiology, University of Dhaka, Dhaka
10:00 - 10:10	ENR-O5: Isolation and characterization of aniline blue dye-degrading bacteria from Buriganga river. S. M. Mahfujur Rahman, Department of Microbiology, University of Dhaka.
10:10 - 10:20	ENR-O6: Investigation of microbial N-cycle dynamics (nitrification, denitrification, DNRA, and anammox) in fertilized paddy soil using stable isotopes. Robel Patwary, Bangladesh Council of Scientific and Industrial Research (BCSIR)
10:30- 11:00	Tea break
Technical Session 5 (11:00 – 12:30 PM): Food & Agriculture Research (FAR) at Senate Hall	
	Co-chairs: Prof Dr. Zakaria Miah, Department of Microbiology, Jagannath University, Dhaka, & Professor Dr Nayeema Bulbul, North South University, Dhaka
11:00 - 11:20	FAR-K5: The future of food and agriculture research: trends, challenges and mitigation. Md. Latiful Bari, Center for Advanced Research in Sciences, University of Dhaka, Dhaka
11:20 - 11:30	FAR-O1: Metagenomic deep sequencing reveals microbial diversity, resistome profile and virulence factors and functional potential across agricultural and urban soils around Dhaka city: A One Health perspective. Afroza Khan, Department of Microbiology, University of Dhaka, Dhaka
11:30 - 11:40	FAR-O2: Virulence genes and antimicrobial profiles of <i>Escherichia coli</i> O157:H7 isolated from meat samples in Kushtia, Bangladesh. Basrat Tasnim Era, Department of Microbiology, Rabindra Maitree University, Kushtia
11:40 - 11:50	FAR-O3: Plant growth-promoting activities of endophytes from <i>Azadirachta indica</i>. Toufiq Been Faisal Nafi, Department of Genetic Engineering and Biotechnology, Shahjalal University of Science and Technology, Sylhet
11:50 - 12:00	FAR-O4: In vivo growth analysis for phosphorus utilization capability and molecular attributes of <i>Nostoc piscinale</i>. Masuma Khatun, Environmental Biotechnology Division, National Institute of Biotechnology (NIB), Ganakbari, Ashulia, Savar, Dhaka
12:00 - 12:10	FAR-O5: Selecting stress tolerant rhizobacterial strains retaining multiple plant growth promoting traits in association with legumes to boost crop yields. Zinnat Sultana, Department of Microbiology, University of Dhaka, Dhaka

12:10 - 12:20	FAR-O6: Isolation and identification of phytopathogenic fungi and its biocontrol using plant growth-promoting rhizobacteria. Dipta Chandra Pal, Department of Microbiology, University of Dhaka, Dhaka
12:20 - 12:30	FAR-O7: Genomic analysis of plant growth-promoting rhizobacteria in saline environments: A solution for sustainable agriculture. Abu Reza, Department of Biotechnology and Genetic Engineering, Islamic University, Kushtia
Parallel Technical Session 6 (11:00 – 12:30 PM): Industrial & Pharmaceutical Research (IPR) at Seminar Room	
	Co-chairs: Professor Dr Abdul Karim, Department of Botany, DU & Professor Dr Imtiaj Hasan, Rajshahi University, Rajshahi
11:00 - 11:20	IPR-K6: Neem endophytic fungi: A potential treasure hunt for antimicrobials and industrial enzymes. Prof. Dr. Abul Kalam Azad, Department of Genetic Engineering and Biotechnology, Shahjalal University of Science and Technology, Sylhet
11:20 - 11:30	IPR-O1: Antimicrobial activities of bioactive protein fractions from the mucus secretion of Giant African snail, <i>Achatina achatina</i> . Alima Khanam, Department of Biochemistry and Molecular Biology, University of Rajshahi, Rajshahi
11:30 - 11:40	IPR-O2: Screening of exoelectrogenic bacteria from saline water driven microbial fuel cell for power generation and therapeutic application. Shovon Shaha, Department of Biotechnology and Genetic Engineering, Islamic University, Kushtia
11:40 - 11:50	IPR-O3: Production of protease by <i>Aspergillus oryzae</i> in a cost-effective fermentation approach. Tanjina Akter, Centre for Advanced Research in Sciences (CARS), University of Dhaka, Dhaka
11:50 - 12:00	IPR-O4: Partial purification and characterization of biosurfactants produced by <i>Pseudomonas aeruginosa</i> I-2. Md. Atik Shariar Sammo, Department of Microbiology, Jagannath University, Dhaka
12:00 - 12:10	IPR-O5: Characterization of α -Amylase from <i>Bacillus subtilis</i> PSH12 and evaluation of its potential in detergent industry. Atiq Abrar Rahman, Department of Microbiology, University of Dhaka, Dhaka
12:10 - 12:20	IPR-O6: Biodegradable bioplastic production from microalgae. Mahima Hossain Supti, Department of Microbiology, Stamford University Bangladesh
12:20-12:30	IPR-O7: Bacteriophage derived whole cell biosensor: Electrochemical detection of <i>Salmonella enterica</i> strain. Md Hasibul Hassan, Department of Microbiology, University of Dhaka, Dhaka
12:30 - 01:30	Poster Session at 2 nd floor Environmental Microbiology, Food & Agriculture Microbiology, and Industrial & Pharmaceutical Microbiology
01:00 – 02:30	Lunch break

Technical Session 7 (02:30 – 04:15 PM): Session for Young Emerging Scientists (12+ 3 min slot) at Senate Hall	
	Co-chairs: Dr Mustafizur Rahman, Senior Scientist, icddr, b, Dhaka & Professor Dr M Manjurul Karim, Department of Microbiology, University of Dhaka
02:30 - 02:45	YES-1: Integrated poultry and fish farming system: A potential food safety threat?

	Professor Dr. Tanvir Islam, Department of Microbiology, Jashore University of Science and Technology, Jashore
02:45 - 03:00	YES-2: Development of economic process for fermented products and its impact on biotech industry in Bangladesh. Dr Arafat al Mamun, Center for Advanced Research in Sciences, University of Dhaka, Dhaka
03:00 - 03:15	YES-3: Microbiome of Bay of Bengal, Bangladesh, Dr. Salma Akter, Department of Microbiology, Jahangirnagar University, Savar, Dhaka
03:15 - 03:30	YES-4: Microbiome association in mastitis and their functional implications in dairy cattle mammary health. Dr Nazmul Hoq, Bangabandhu Sheikh Mujibur Rahman Agricultural University, Gazipur
03:30 - 03:45	YES-5: A Journey towards SARS-CoV-2 viral RNA detection by low cost qRT-PCR kit. Dr Md Murshed Hasan Sarkar, Bangladesh Council of Scientific and Industrial Research (BCSIR), Dhaka
03:45 - 04:00	YES-6: <i>In vitro</i> antibacterial activity of commercially available probiotics on food-borne pathogens along with their synergistic effects with synthetic drugs. Dr Mrityunjoy Acharjee, Department of Microbiology, Stamford University Bangladesh
04:00 - 04:15	YES-7: Antibiotic resistance (AMR): Adopting a One Health approach to AMR surveillance without limited funds and resources. Dr Fahim Kabir Manjurul Hoque, Department of Mathematics and Natural Sciences, BRAC University
04:15 - 04:30	Afternoon Tea break

Closing Session (04:30 – 05:00 PM): Prize Giving & Closing Ceremony at Senate Hall	
04:30 - 04:35	Best Oral presentation award
04:35 - 04:45	Best Poster presentation award
04:45 - 04:50	Thank you address by Professor Dr Donald J Gomes, President, BSM
04:50 - 05:00	Thank you address by Professor Dr Anowara Begum, Conference Organizing Secretary
05:00 - 05:30	Annual General Meeting (AGM) (Qualified presence for BSM Members only)