



**BSM ANNUAL
CONFERENCE
2025**



**21–22 December
2025**

39TH BSM ANNUAL INTERNATIONAL CONFERENCE



**N. N. A. C. Senate
Bhaban,
University of Dhaka**

**Theme: Microbiome for a
sustainable future**



Organized by: Bangladesh Society of Microbiologists (BSM)
Hosted by: Department of Microbiology, University of Dhaka.



AMS-P09: Identifying the Phytochemicals- Flavonoids and Saponin and Inspecting the Antibacterial Effectiveness in Moringa Leaves and Readily Available Moringa Powder against *Klebsiella pneumoniae* in Dhaka City, Bangladesh

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AMS-P10: Antibiotic Resistance in Uropathogenic Bacteria: A Cross-sectional Study at Thyroid Care and Diagnostic Center, Dhaka

Amena Begum¹, Hera Tahsin Punno¹, Noshin Nahar¹, Nitu Dash¹, Dr Fahim Kabir Monjurul Haque^{1}*

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AMS-P11: Urban Waterways as Reservoirs of Antimicrobial Resistance: ESBL-Producing *E. coli* Recovered from Dhaka, Bangladesh

Ishrat Jahan Imu¹, Md. Shariful Islam^{1};*

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AMS-P12: Antimicrobial Resistance Pattern of *Escherichia coli* and *Acinetobacter baumannii* Isolated from Patients of Bangladesh

Jarin Tasnim¹, Sadatul Islam¹, Fahim Faisal Nakib², Fahim Kabir Monjurul Haque², Muhammad Asaduzzaman¹;

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AMS-P13: Emergence of Multidrug-Resistant *Providencia spp.* in Clinical and Environmental Settings of Dhaka City Hospitals.

Kazi Dihan¹, Atiq Abrar Rahman¹, Mohammad Azizul Hoque¹, Spencer Mark Mondol¹, Md. Rafiul Islam Ranga¹, Md. Mizanur Rahaman^{1}*

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AMS-P14: Mapping Knowledge, Attitudes and Practices on AMR in Bangladesh's Multi-Sector Antibiotic Use System to Inform Stewardship and Policy

Md. Salf Salehin Sadi Khan¹, Salma Akter¹, Nihad Adnan¹, Nafisa Azmuda¹, Md. Firoz Ahmed¹ ;

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AMS-P15: Emergence of Multidrug and Extensively Drug-Resistant *Escherichia coli* and *Klebsiella pneumoniae* in Subclinical Mastitis of Dairy Buffaloes in Bangladesh: Characterization of Resistance Genes and Biofilm Formation

Md. Shahidur Rahman Chowdhury¹, Hemayet Hossain², Md. Mosharof Hosen¹, Md. Mahfujur Rahman^{1}*

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AMS-P16: Genotypic and Phenotypic Insights into Co-Resistance to Quinolones and β -Lactams in Poultry Environments

Md. Wahidul Islam^{1,3}, Kashifa Zaman^{1,3}, Abul Kalam Azad¹, Shamsun Nahar¹, Salequl Islam^{1,2}*

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MFA-F02: Molecular Profiling of Virulence-Associated hpmA and rsmA Genes in *Proteus mirabilis* from Chicken and Butcher Shop Isolates

Mohammad Nahian Rahman, Md. Jannatul Ferdoush Nayeem, Tanvir Ahmad, Sumaya Shargin Khan, Suchona Akter, Afroza Sultana Nitu, Md. Shahidur Rahman Chowdhury, Md. Mahfujur Rahman *

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MFA-F03: A Comprehensive Analysis of the Bacteriological Profile of Infant Formula Food in Bangladesh

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MFA-F04: Molecular screening and characterization of virulent *Vibrio parahaemolyticus*, a halophilic bacteria from marine fish samples of coastal and urban areas in Bangladesh

Samir Alam¹, Amena Mahmood¹, Dr. Munima Haque¹, Afia Maheda Prema^{1*}

1. Biotechnology Program, Department of Mathematics and Natural Sciences, BRAC University

MFA-F05: Abundance and Transmission of Antibiotic Resistance and Virulence Genes through Mobile Genetic Elements in Integrated Chicken and Fish Farming Systems

S. M. Kador¹, Khondoker Tanjim Islam¹, Rafid Nahian Rubaiyat¹, Mohammad Intiaj Uddin Bhuiyan², Tanay Chakrovarty¹, M. Shaminur Rahman¹, Ovinu Kibria Islam¹, Md. Tanvir Islam^{1*}

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MFA-F06: Emergence of Multidrug and Extensively Drug-Resistant *Escherichia coli* and *Klebsiella pneumoniae* in Subclinical Mastitis of Dairy Buffaloes in Bangladesh: Characterization of Resistance Genes and Biofilm Formation

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Microbial Infection Control & Prevention (MIC)

MIC-F01: Leveraging rpoB Amplicon Signals from Xpert MTB/RIF Ultra to Identify Non-Tuberculous Mycobacteria in TB-Negative Specimens: A Diagnostic Opportunity

Afsana Akter Rupa¹, Sk Nazmul Kabir¹, Rumana Nasrin¹, Ashabul Islam¹, S. M. Mazidur Rahman¹, Ahammad Shafiq Sikder Adel¹, Mohammad Khaja Mafij Uddin^{1*}, Sayera Banu¹

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MIC-F02: Mutations in L4 (H165Q) and L22 (L46Q) ribosomal proteins in the identification of *Shigella flexneri*

Haimanti Hema^{1,2}, Asaduzzaman Asad¹, Suraiya Nusrin³, Morium Akter Mukta¹, Meherun Nesa Maria³, Golam Mostafa¹, Shoma Hayat¹, Zhahirul Islam^{1*};

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MFA-P42: Isolation and Characterization of Pathogenic Bacteria from fruit juices of Dhaka City with Their Antibiotic Resistance Patterns.

Shahina Khatun¹, Atoshe Barmon¹, Kamal Kanta Das^{1}*

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MFA-P43: Prevalence of Pathogenic Bacteria and AMR profile in Locally Available Street Foods in Dhaka, Bangladesh

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MFA-P44: Retail Goat Meat as a Source of Multidrug Resistant ESBL-Producing *Klebsiella pneumoniae*: A Molecular Investigation

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