

**Curriculum Vitae, of
Munawar Sultana, PhD,
Professor**

**Department of Microbiology, University of Dhaka,
Dhaka 1000, Bangladesh**

Tel: 880-155-3636825; e-mail: munawar@du.ac.bd; munamicro@yahoo.com
Research Gate: <https://www.researchgate.net/profile/Munawar-Sultana>
Google scholar: <https://scholar.google.com/citations?user=rj6CqQAAAAJ&hl=en>
ORCID: <https://orcid.org/0000-0002-8563-3661>
website: https://www.du.ac.bd/body/faculty_details/MBI/1657#



a. Professional Preparation

University of Dhaka	Microbiology	B.S (Honrs), 2001, 1 st class 1 st (A+ grade)
University of Dhaka	Microbiology	M.S., 2003, 1 st class 2 nd (A+ grade)
University of Freiberg, Germany	Biology	Ph.D, 2010, Magna cum laude (Very good grade)
University of California, Santa Cruz, USA	Microbiology and Environmental Toxicology	Fulbright visiting researcher (Sept, 2014 to Jan, 2015)

b. Appointments

1. Professor, Department of Microbiology, University of Dhaka, 1st December, 2022 till to date
2. Associate Professor, Department of Microbiology, University of Dhaka, 21th July, 2016 to 30th November, 2022.
3. Assistant Professor, Department of Microbiology, University of Dhaka, 1st March, 2012 to 20th July 2016.
4. Assistant Professor, Department of Microbiology, Jahangirnagar University, Savar, Dhaka November, 2011 to February, 2012.
5. Lecturer, Department of Microbiology, Jahangirnagar University, Savar, Dhaka from January, 2011 to November, 2011.
6. Assistant Professor, Department of Microbiology, Primeasia University (Bangladesh) from June 03, 2010 to January 15, 2011.
7. Lecturer, Department of Microbiology, Primeasia University (Bangladesh) from October 1, 2005 to March 30, 2006.

c. Synergistic Activities

Student Advisor (6th February 2024 to 30th September, 2025) recommended by the C&D of the Department of Microbiology, University of Dhaka

Academic and Research Awards:

- **BAS (Bangladesh Academy of Sciences) elected Fellow (FBAS)** for her outstanding contribution to science and society in Bangladesh.
- **BAS-Dr. M.O. Ghani Memorial Gold Medal award 2025**
- **DU Distinguished Scholar recognition award 2026** for more than 2000 citations in google scholar

- **DU Research excellence recognition 2025** for scholarly excellence through high quality research publications in Q1/Q2 international journals in 2024.
- **Dean's Research Award**, Faculty of Biological Sciences, University of Dhaka, Category: Associate Professor, Period: 2018-19 and 2019-20
- **Best innovation idea award (Product category), First Prize** in Innovation Fair, University of Dhaka, 4th March, 2024
- ISBM (International Society of Bangladeshi affiliated Microbiologists) **Research Award**, 2023 in the category of Established Scientist: Junior
- **Young Scientist 2012 award by BAS-TWAS (The World Academy of Science)**
- OWSD (Organization for women in Science) **early career research fellowship** 2018.
- Samson H Chowdhury Award for **Young Scientist 2014**
- **Fulbright Visiting fellowship 2014-15** as visiting Researcher at the University of California, Santa Cruz, USA
- **Prime Minister Gold Medal Award** for outstanding academic performance for being the top student in the faculty of biological science.
- **Dean's Gold Medal Award** for excellent academic result at B.Sc in the faculty of biological science, University of Dhaka.
- **Government Talent pool Scholarship obtaining** the third position in the University ranking for excellent academic result at B.Sc.
- **"Sumitomo Corporation, Japan" scholarship** for outstanding academic performance in the faculty of biological science, University of Dhaka. [selected for the scholarship for 4 times i.e. each year of my four year B.Sc. study based on result]
- **General Grade Scholarship** provided by Board of Intermediate and Secondary Education, Dhaka for the performance the in H.S.C. examination
- **NUFU (Norway) research fellowship** for M.S. research.
- **DAAD (German academic exchange service) scholarship** for Ph.D in Germany.
- **JSPH HOPE fellow 2013** to attend a meeting with Nobel Laureates at Tokyo, Japan

Manuscript Editor/Reviewer:

Currently

- Editorial Board Member of **BMC Microbiology** (Springer Nature).
- Guest Editor (2023-24) of **BMC Medical Genomics** (Springer Nature) special collection issue of 'Microbiomes in human disease'
- Guest Editor (**Frontiers in Public Health**) 2018

Consistent reviewer for the journals:

- **Environmental Science and Pollution Research, ESPR** (Publisher Springer)
- **Journal of Biotechnology** (publisher Elsevier),
- **Infection, Genetics and Evolution** (publisher Elsevier),
- **Science of the Total Environment** (publisher Elsevier),
- **Environmental Science and Pollution Research** (publisher Springer),
- **Waste and Biomass Valorization** (publisher Springer),
- **Frontiers in Environmental Science** (Open access academic publisher),
- **Frontiers in public health** (Open access academic publisher),
- **African Journal of Microbiology** (Open access academic publisher) etc.

Membership:

Life Member, Bangladesh Society of Microbiologists (BSM)

Joint Secretary, Bangladesh Society of Microbiologists (BSM), 2021-22, 22-23, 23-24, 24-25
 Executive member, Biosafety and Biosecurity in Bangladesh (BBB),
 Outreach Member, American Society of Microbiology (ASM),
 Member, Graduate Microbiologist Association, Bangladesh;
 DAAD alumni
 Member, German Microbiologists association,
 Fulbright alumni,
 Registered graduate of University of Dhaka (Life member)

d. Collaborators & Other Affiliations

(i) Collaborators

1. Professor Nils Kare Birkeland, University of Bergen, Norway (collaboration for M.S. project).
2. Anne-Christine Schmidt, TU Bergakademie Freiberg (collaboration for PhD work)
3. Professor R.M.Wilfred, Free University Amsterdam (Co PhD supervisor)
4. Dr. Britta Planer Freiderich, Byreut University, Germany (collaboration for PhD work)
5. Dr. Jivan Shakya, Institute for Research in Science and Technology, Kathmandu, Nepal (Project collaborator)

(ii) Graduate and Postdoctoral Advisors

Professor Chad Saltikov, University of California, Santa Cruz, CA, USA (Associate faculty during visiting research fellowship)

Professor (retired) Michael Schlömann, TU Freiberg, Germany, (PhD supervisor)

Professor Nils Kare Birkeland, University of Bergen, Norway (M.S. co supervisor)

Professor S.I. Khan, University of Dhaka (B.S. and M.S. supervisor)

(iii) Thesis Advisor and Postgraduate Sponsor

Total M.S. student supervised/co-supervised 22; Current M.S. thesis student number 3

Total PhD student supervised 4 as their main supervisor, 6 as their co-supervisor, Current PhD/MPhil student 3;

e. Research projects and collaboration (selected)

Title of the Project	Amount awarded	Date of Award	Funding agency	Role of the applicant on the grant
Biomolecular Engineering of tail-fiber protein of Salmonella Typhi Specific Bacteriophage for Efficient Development of Typhoid Detecting Electrochemical Biosensor	7,50,000 BDT	2024-25	UGC, Bangladesh funded project granted by the University of Dhaka	Project PI
Development of recombinant peptide vaccine and diagnostic tool for Foot-and-Mouth Disease Virus	14,90,000 BDT	2022-23	Ministry of Education, Bangladesh	Project PI
Complete genome characterization of arsenite oxidizing isolates and determination of their electrochemical Arsenic conversion	3,00,000 BDT	2021-2022	UGC, life science project, Bangladesh	Project PI
Effect of Environmental pollution and seasonal change on microbial	7,85,000 BDT	2022-23	UGC, Bangladesh funded project	Project PI

diversity of Buriganga river water in Bangladesh with an emphasis on metal and antibiotic resistant bacteria			granted by the University of Dhaka	
Development of bacteriophage and its protein based portable electrochemical biosensor for screening of Salmonella bacterium from environmental samples	35,000 USD	23.1.2023-22.1.2025	TWAS, UNESCO	Project PI
Genomic Expression Assay of Arsenite Transformation Associated to Antibiotic Co-selection Within Indigenous Arsenite Oxidizing Isolates.	2,50,000 BDT	1.7.2022-30.6.2023	Chromosome Research Center, University of Dhaka	Project PI
Development of Enzyme-Linked Immunosorbent Assay (ELISA) kit for detection of serotype specific Foot-and-Mouth Disease virus (FMDV) infection from Cattle	6,66,000 BDT	1.7.2021-30.6.2022	Centennial Research Fund, University of Dhaka	Project PI
Bioaccumulation, Detoxification and Electrochemical detection of Arsenic Using Potential Indigenous Arsenotrophic Bacteriome from Bangladesh	2,50,000 BDT	1.7.2021-30.6.2022	Ministry of Science and Technology	Project PI
Co-expression Analysis of Arsenic and Antibiotic Resistance Genes in Microbial Community Using Real-Time qRT-PCR	3,00,000 BDT	1.7.2020-30.6.2021	Ministry of Science and Technology, Bangladesh	Project PI
Assessment of VP2 capsid protein of FMDV as a potential candidate for diagnostic kit development using recombinant protein technology.	3,00,000	1.10.2020-30.9.2021	University Grants Commission (UGC), Bangladesh	Project PI
Diversity and functional gene analysis of arsenotrophic bacteria in Bangladesh Environments	300,000 BDT	14.7.2019-30.06-2020	University Grants Commission (UGC), Bangladesh	Project PI
Development of an easy to-use economic diagnostic kit for foot-and-mouth disease virus	50,000 USD	1.1.2019-30.6.2021	OWSD (Organization for women in Science in developing world), UNESCO	Project PI
In Vitro Analysis of Destabilizing Influence of Antibiotics on Inorganic Arsenic (As) Transformations Mediated by Aquatic Microbial Communities	400,000 BDT	1.7.2017-30.6.2018	Ministry of Science and Technology, Bangladesh	Project PI
Bacterial poultry diseases in Bangladesh: Implementation of cost effective pathogen detection method and a strategic management program'	35,00,000 BDT	1.4.2017-30.3.2020	BAS-USDA	Project Co-PI
Effect of Antibiotic Pollution on	350,000	1.7.2016-	University Grants	

Arsenotrophic microbiome and Arsenic redox transformation in Aquifers	BDT	30.6.2017	Commission (UGC), Bangladesh	
Clinical wastewater in Bangladesh: it's impact on pollution of ecological water bodies with resistant bacteria and active antibiotics	18000 USD	10.10.2015-9.9.2017	The World Academy of Science (TWAS)	Project PI
Arsenic Transforming Gene Analysis and Bioremediation Potential of Arsenic Metabolizing Bacteria Retrieved from Bangladesh Environments	5,00,000 BDT	1.7.2015-30.6.2016	Ministry of Science and Technology, Bangladesh, Bangladesh	Project PI
Development of Vaccine and Effective Diagnostic Kits for Foot-and-Mouth Disease Virus in Bangladesh.	7,65,00,000 BDT	1.7.2015-30.7.2018	UGC and World Bank, Window-4 IndustryAcademia Innovation Fund (CP384P)	Project Co-PI
Isolation and Detection of ESBL Producing Enterobacteriaceae from Hospital Effluents	8,00,000 BDT	1.7.2013-30.6.2014	University Grants Commission (UGC), Bangladesh	Project PI
Transformation of Arsenic compounds by bacteria from aquifers and soils of Bangladesh	1,00,000	1.7.2013-30.6.2014	Center for Advanced Studies and Research in Biological Sciences	Project PI
Antibiotics and resistant bacteria pollutions: its impact on the environmental microbial communities and development of resistance gene pools	6,00,000	1.7.2012-30.6.2013	Ministry of Science and Technology, Bangladesh, Bangladesh	Project PI
Prevalence and characterization of <i>qnr</i> gene in extended spectrum β -lactamase producing enterobacterial isolates in Bangladesh	3,00,000	1.7.2011-30.6.2012	Ministry of Science and Technology, Bangladesh, Bangladesh	Project PI
Isolation and detection of ESBL producing <i>Enterobacteriaceae</i> from hospital effluents	1,00,000	1.7.2011-30.6.2012	UGC (University Grant Commission)	Project PI
'Isolation and characterization of arsenic resistant bacteria from Nuclear reactor surrounding areas in Savar, Bangladesh'	1,00,000	1.7.2010-30.6.2011	UGC, Bangladesh	Project PI
Exploring the microbiological processes of arsenic (re)mobilization and potential remediation of arsenic in SAR technology		2010-2015	NWO-WOTRO, Collaboration with the Netherlands and Bangladesh	Project collaborator.

f. Language proficiency:

1. Bengali: Mother language.
2. English: Reading, writing, speaking, understanding (very good)
3. German: Reading, writing, speaking, understanding (good)
4. Hindi: Reading, speaking, understanding (good)

Invited Lectures: (Selected)

- Plenary Lecture: 2nd National Conference on Emerging Horizons in Microbiology', Jashore University of Science and Technology (JUST), 26th September, 2026
- Invited Speaker: International Society for Bangladesh affiliated Microbiologists (ISBM) webinar on Celebrating Women Who Shape Science, 29th March 2026 (online platform)
- Keynote Lecture: 39th BSM International Conference, Dhaka, Bangladesh (December 21, 2025, category: Microbial Infection Control & Prevention)
- Keynote Lecture: ISBM International E-Conference, 2023
- Keynote lecture, 5th International Microorganisms day, 17th September, 2024 (organized by BSM and Stamford University, Bangladesh)
- Oral (Poster talk) presentation ASM microbes Conf. 2023, June 15-19, Huston, Texas, USA in the category: Clinical and Public Health Microbiology (CPHM)
- Invited Talk: 6th Young Scientist Congress organized by Bangladesh Academy of Sciences (BAS), 4-5 April, 2026
- Invited Talk: Invited lecture and workshop conducted on Scientific Writing and Research Methodology, IQAC, University of Dhaka, 31st December, 2025

List of Publications: Sultana, Munawar

Citation indices (<https://scholar.google.com>)

Citations	3409
h-index	31
i10-index	67

Patents

Patent (Under Examination):

- I. Bacteriophage-Based Electrochemical Biosensor for Detection of Typhoid Pathogen (Dr. Md. Zaved Hossain Khan, Dr. Munawar Sultana, Dr. Md. Anwar Hossain, Md Hasibul Hassan, Md. Romzan Ali, Md. Arifur Rahman and Anamica Hossain Published: 21/03/2024 | Patent No. BD/P/2024/78)
- II. Easy to use diagnostic kit for on- the- spot detection of Foot-and-Mouth Disease Virus (FMDV) (Dr. Munawar Sultana, Dr. Md. Anwar Hossain, Anamica Hossain, Dr. Salma Akter, K.M. Mazharul Alam (Submitted))

A. Journal publication:

2026

Alom MM, Nizhum AH, Mannan ABA, **Sultana M**, and Rahman SM. Spatial and Temporal Variations of Bacterial Communities in the Buriganga River, Dhaka, Bangladesh (2026) *ACS ES&T Water* 6 (1), 173-188 DOI: 10.1021/acsestwater.5c00857

Haque, M. E., M. S. Rahman, **M. Sultana**, and A. Begum. 2026. Seasonal Restructuring of Microbial Communities and Resistomes in the Shitalakshya River, Bangladesh Revealed by Shotgun Metagenomics. *Microbiology Open* 15: e70359. <https://doi.org/10.1002/mbo3.70359>.

Rahman MA, Azam RM, Hossain MS, Momtaz S, Begum A, **Sultana M** 2026. First Report of *bla*_{CTX-M-15} in a Marine Thermotolerant *Enterobacter* Isolate from Bangladesh: Genomic Insights Into Halotolerance and Antimicrobial Resistance. *Microbiology Open*.doi.org/10.1002/mbo3.70425

Mannan ABA, Hossain MA, Sultana M. Among major ExPEC lineages, ST69 shows temporal virulence escalation through clinical convergence and independent chromosomal events. *Microbial genomics*. (accepted)

2025

Gunasekera, U., Alkhamis, M. A., Puvanendiran, S., Das, M., Kumarawadu, P. L., **Sultana, M.**, Hossain, M. A., Arzt, J., & Perez, A. (2025). Ecological niche modeling for surveillance of foot-and-mouth disease in South Asia. *PLoS ONE*, 20(4), e0320921. doi:10.1371/journal.pone.0320921.

Afroja Yasmin, M. Shaminur Rahman, S. M. Kador, Md. Mustak Ahmed, Md. Eashanul Karim Moon, Humaira Akhter, **Munawar Sultana**, Anowara Begum. (2025) Metagenomic insights into microbial diversity and potential pathogenic transmission in poultry farm environments of Bangladesh. *BMC Microbiol* 25, 274 (2025). <https://doi.org/10.1186/s12866-025-03970-0>

Ayman Bin Abdul Mannan, Momtaz Zamila Bukharid, M Anwar Hossain, **Munawar Sultana**. Comparative genomic and functional analyses of *Microbacterium paraoxydans* BHS25 reveal key metabolic adaptations for survival in arsenic-contaminated soil ecosystems (2025). *BMC Genomics* 26:650. doi:10.1186/s12864-025-11811-7

Md. Abdul Khaleque, Md. Arifur Rahman, Syed Imdadul Hossain, Md. Romzan Ali, Md. Ruhul Amin, Rahman Saidur, Mohamed Aly Saad Aly, **Munawar Sultana**, Md. Zaved H. Khan. (2025). Polythiophene functionalized Ti3C2Tx-TiO2 nanorods composite based electrochemical sensing platform for the detection of *Pseudomonas aeruginosa* DMC-27b. *Bioelectrochemistry*, 2025, 109082, ISSN 1567-5394, <https://doi.org/10.1016/j.bioelechem.2025.109082>.

Md. Abdul Khaleque, Md. Hasibul Hassan, Md. Romzan Ali, Md. Anwar Hossain, Mohamed Aly Saad Aly, Waleed Alahmad, **Munawar Sultana**, Md. Zaved H. Khan. Gold-Polyaniline Supercapacitive Biosensor for Selective Detection of *E. coli* DH5 α . *IEEE Sensors Journal*, doi: 10.1109/JSEN.2025.3628728.

Roy, A., Amrin, S., Alam, M.A. Akter H., Ray,SK., Islam, MM, **Sultana, M.** A cross-sectional study on the physical and mental health condition of university newcomers in Bangladesh. *Discov Ment Health* 5, 129 (2025). <https://doi.org/10.1007/s44192-025-00276-5>

Ghosh, Supriya and Anjume, Humaira and Lipu, Abu Hasib., Hossain, Md. Anwar., **Sultana, Munawar** and Alim, Sharmin Rumi, Occurrence of Multi-Drug Resistant Pathogenic Bacteria in Hospital Cafeteria Fast Foods of Dhaka, Bangladesh. *Studies in Science of Science*. Available at SSRN: <https://ssrn.com/abstract=4882864> or <http://dx.doi.org/10.2139/ssrn.4882864>

2024

Hassan, MH, Ali MR, Rahman A, Hossain A, Afrin S, Khaleque MA, Hossain MA, Khan MZH, **Sultana M**, Proposition of a phagosensor with a unique Teseptimavirus SAL_R1S on a carbon nanotube platform for efficient detection of typhoid pathogen, *Sensors and Actuators Reports*, 2024 Volume 8, 100238, ISSN 2666-0539, <https://doi.org/10.1016/j.snr.2024.100238>.

Hossain, A., Alam, K.M.M., Akter, S. Hossain MA, **Sultana M**. A comprehensive and single-use foot-and-mouth disease sero-surveillance prototype employing rationally designed multiple viral antigens. *Sci Rep* 14, 25236 (2024). <https://doi.org/10.1038/s41598-024-76669-3>

Hoque, M.N., Mannan, A.B.A., Hossian, A. Faisal, GM., Hossain MA, **Sultana, M**. Arsenotrophic *Achromobacter aegrifaciens* strains isolated from arsenic contaminated tubewell water and soil sources shared similar genomic potentials. *BMC Microbiol* 24, 518 (2024). <https://doi.org/10.1186/s12866-024-03676-9>

Akter S, M. Rahman MS, Islam MR, Akther M, Anjume H, Marjia M, Rahaman MM, Hossain MA and **Sultana M**. Development of recombinant proteins for vaccine candidates against serotypes O and A of Foot-and-Mouth Disease virus in Bangladesh. *Access Microbiology* Vol 6(6) 2024 <https://doi.org/10.1099/acmi.0.000713.v4>

Haque, F., Diba, F., Istiaq, A. Siddique, MA., Mou, TJ., Hossain MA., and **Sultana M.**, Novel insights into the co-selection of metal-driven antibiotic resistance in bacteria: a study of arsenic and antibiotic co-exposure. *Arch Microbiol* **206**, 194 (2024). <https://doi.org/10.1007/s00203-024-03873-0>

Anjume, H., Hossain KA., Hossain A., Hossain MA., **Sultana, M**. (2024) ‘Complete genome characterization of foot-and-mouth disease virus My-466 belonging to the novel lineage O/ME-SA/SA-2018’. *Helion*: 10 (5) <https://doi.org/10.1016/j.heliyon.2024.e26716>

Hoque MN, Hossain A, Faisal GM, Bukharid MZ, Hossain MA, **Sultana M**. Draft genome sequence of an arsenotrophic *Achromobacter aegrifaciens* strain isolated from soil in Bangladesh. *Microbiol Resour Announc* 0:e00137-24. <https://doi.org/10.1128/mra.00137-24>

Hossain A, Hoque MN, Bukharid MZ, Hossain MA, **Sultana M**. Draft genome sequence of *Achromobacter aegrifaciens* BAW48 isolated from arsenic-contaminated tubewell water in Bangladesh. *Microbiol Resour Announc* 0:e00097-24. <https://doi.org/10.1128/mra.00097-24>

S Ghosh, H Anjume, MA Hossain, **M Sultana**, SR Alim. ‘Prevalence of gram-positive bacteria in hospital cafeteria fast foods in dhaka, bangladesh and their resistance to current antibacterial agents’. *Bioresearch Communications-(BRC)*: 10(1): 1361-1370.

2023

Diba, F., Hoque, M.N., Rahman, M.S., Haque, F., Rahman KMJ., Moniruzzaman, M., Khan M., Hossain MA., **Sultana, M**. Metagenomic and culture-dependent approaches unveil active microbial community and novel functional genes involved in arsenic mobilization and detoxification in groundwater. *BMC Microbiol* 23, 241 (2023). <https://doi.org/10.1186/s12866-023-02980-0>

Hossain, K.A., Anjume, H., Akhter, M., Alam, K.M.M., Yeamin A. Akter S., Islam, MR., **Sultana M.**, Hossain MA. Epidemiological Surveillance and Mutational Pattern Analysis of Foot-and-Mouth Disease Outbreaks in Bangladesh during 2012–2021, *Transboundary and Emerging Diseases*, vol. 2023, Article ID 8896572, 18 pages, 2023. <https://doi.org/10.1155/2023/8896572>

Hossain, K.A., Anjume, H., Alam, K.M.M., Yeamin A. Akter S., Hossain MA., **Sultana M.** Emergence of a novel sublineage, MYMBD21 under SA-2018 lineage of Foot-and-Mouth Disease Virus serotype O in Bangladesh. *Sci Rep* 13, 9817 (2023). <https://doi.org/10.1038/s41598-023-36830-w>

Islam, OK., Islam, I., Saha, O., Rahaman, MM., **Sultana, M.**, Bockmühl, DP., Hossain, MA. Genomic variability correlates with biofilm phenotypes in multidrug resistant clinical isolates of *Pseudomonas aeruginosa*. *Scientific Report*. Volume 13 (1) 7867

Saha, O., Basri, R., Hossain MA., **Sultana, M.** Characterization of multidrug and heavy metal resistance of carbapenemases producing *Klebsiella pneumoniae* from poultry samples in Bangladesh. *Vet Med Sci*. 2023; 9:1685–1701. DOI: 10.1002/vms3.1168.

2022

M. Nazmul Hoque, M. Ishrat Jahan, M. Anwar Hossain **Munawar Sultana.**, Genomic diversity and molecular epidemiology of a multidrug-resistant *Pseudomonas aeruginosa* DMC30b isolated from a hospitalized burn patient in Bangladesh. *Journal of Global Antimicrobial Resistance* Volume 31, December 2022, Pages 110-118

Hasan, M.M.; Hoque, M.N.; Ahmed, F.; Haque, M.I.-M.; **Sultana, M.**; Hossain, M.A. Circulating Phylotypes of White Spot Syndrome Virus in Bangladesh and Their Virulence. *Microorganisms* 2022, 10, 191. <https://doi.org/10.3390/microorganisms10010191>

M. Nazmul Hoque, M. Shaminur Rahman , Tofazzal Islam , **Munawar Sultana** , Keith A. Crandall, M. Anwar Hossain. Induction of mastitis by cow-to-mouse fecal and milk microbiota transplantation causes microbiome dysbiosis and genomic functional perturbation in mice. *Animal Microbiome*, (2022)4:43.

M. Nazmul Hoque, Anup Kumar Talukder, Otun Saha, Mehedi Mahmudul Hasan, **Munawar Sultana**, ANM Aminoor Rahman, Ziban Chandra Das., Antibigram and virulence profiling reveals multidrug resistant *Staphylococcus aureus* as the predominant aetiology of subclinical mastitis in riverine buffaloes. *Vet Med Sci*. 2022; 1–15. <https://doi.org/10.1002/vms3.942>

Khondaker Md Jaminur Rahman, Farzana Diba, Md Sadikur Rahman Shuvo, Mohammad Anwar Siddique, M Anwar Hossain, **Munawar Sultana**. Metagenomic investigation of bacterial community of arsenic-prone area in the northwest region of Bangladesh. *Bangladesh J Microbiol*, Volume 39, Number 1, June 2022, pp 31-38

2021

Farzana Diba, Md. Zaved Hossain Khan, Salman Zahir Uddin, Arif Istiaq, Md. Sadikur Rahman Shuvo, A. S. M. Rubayet Ullah, M. Anwar Hossain and **Munawar Sultana**. (2021). Bioaccumulation and detoxification of trivalent arsenic by *Achromobacter xylosoxidans* BHW-15 and electrochemical detection of its transformation efficiency. *Scientific Reports* 11:21312 | <https://doi.org/10.1038/s41598-021-00745-1>

M. Shaminur Rahman, M. Nazmul Hoque, Joynob Akter Puspo, M. Raful Islam, Niloy Das, Mohammad Anwar Siddique , M.Anwar Hossain and **Munawar Sultana**. (2021) . Microbiome signature and diversity regulates the level of energy production under anaerobic condition. *Scientific Reports* (2021) 11:19777

M. Ishrat Jahan, Md. Mizanur Rahaman, M. Anwar Hossain and **Munawar Sultana** (2021). Draft Genome Sequence of Carbapenem-Resistant Clinical *Acinetobacter baumannii* Revealing Co-existence of Four Classes of β -lactamases (accepted for publication in Journal of Global Antimicrobial Resistance)

Khandokar Fahmida Sultana, Otun Saha, M. Nazmul Hoque, **Munawar Sultana**, M. Anwar Hossain (2021). Multilocus sequence typing of multidrug-resistant *Salmonella* strains circulating in poultry farms of Bangladesh. Brazilian Journal of Microbiology <https://doi.org/10.1007/s42770-021-00577-1>

Saha O, Islam MR, Rahman MS, Hoque MN, Hossain MA, **Sultana M** (2021) First report from Bangladesh on genetic diversity of multidrug-resistant *Pasteurella multocida* type B:2 in fowl cholera, Veterinary World, 14(9): 2527-2542.

Siam Md.HB, Imran A, Limon Md.BH, Zahid MH, Hossain Md.A, Siddique MA, **Sultana M**, Hossain MA. (2021) Antibiotic Abuse: A Cross-Sectional Study on Knowledge, Attitude, and Behavior Among the University Students in Dhaka, Bangladesh. *Electron J Gen Med*. 2021;18(1):emXXX. <https://doi.org/10.29333/ejgm/xxxx> (IF: 2.222)

Hoque, MN., Akter, S., Mishu, ID., Islam, MR., Rahman, MS., Akhter, M., Islam, I., Hasan, MM., Rahman, MM., **Sultana, M.**, Islam, T., Hossain, MA. (2021) Microbial co-infections in COVID-19: associated microbiota and underlying mechanisms of pathogenesis. *Microbial Pathogenesis* 156 (2021) 104941 **IF**: 2.94)

Hoque, MN., **Sultana, M.**, Hossain, MA (2021) Dynamic changes in microbiome composition and genomic functional potentials in bovine mastitis. *J. Data Mining Genomics Proteomics*.12(1): 232 (Mini Review)

Saha, O., Rakhi, N. N., Hoque, M. N., **Sultana, M.**, Hossain, MA. (2021). Genome-wide Genetic Marker Analysis and Genotyping of *Escherichia fergusonii* strain OTSVEF-60. *Brazilian J. Microbiol.*doi.org/10.1007/s42770-021-00441-2 (**IF**: 2.719)

Mohammad Shaminur Rahman, Mohammad Rafiul Islam, Mohammad Nazmul Hoque, Abu Sayed Mohammad Rubayet Ul Alam, Masuda Akther, Joynob Akter Puspo, Salma Akter, Azraf Anwar, Munawar Sultana, Mohammad Anwar Hossain. Comprehensive annotations of the mutational spectra of SARS-CoV-2 spike protein: a fast and accurate pipeline, 68 (3): 1625-1638

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D. Seminar publication: (selected)

1. Bacterial diversity in arsenic contaminated overburden soils and the corresponding genes of arsenite oxidase, published in *Biospectrum-das magazine für Biowissenschaften*, 2009, abstract no: PO21, page 146.
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E. Conference Proceedings: (more than 200; selected provided)

1. **Sultana, M.**, Hossain, M.A. (July, 2012). Pollution of Antibiotic resistant bacteria: Prospective studies on spreading of antibiotic resistance, food hygiene and aquaculture in Bangladesh. International conference on Green Chemistry for sustainable development, Jessore Science and Technology University, Jessore, Bangladesh. P: 30-34, ISBN: 978-984-33-5307-8
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3. Alam, SM, Amin, M.R., **Sultana, M** and Hossain, M.A. ‘Antigenic Variation of Capsid Protein Vp1 of Foot and Mouth Disease Virus Prevalent in South Asian Regions’ was published in Asian Food Security Association (AFSA) conference proceedings December 2012.

F. Conference presentation: International

Munawar Sultana, Kazi Alamgir Hossain, Humaira Anjume, KM Mazharul Alam, Ashabul Yeamin, Rafiul Islam Ranga, Salma Akter , Md. Anwar Hossain. A 10-Year Comprehensive Investigation of Foot-And Mouth Disease Virus In Bangladesh Reporting Emergence and Re-Emergence of Novel Lineage and Sublineages and Distinct Mutational Trends. ASM microbes Conf. 2023, June 15-19, Huston, Texas, USA (both Oral and Poster presentation in the category of Clinical and Public Health Microbiology (CPHM))

Hoque MN, Istiaq, A, Clement, R, Sultana, M, Crandall, KA, Siddiki, AMAMZ, M Anwar Hossain (2019) Characterization of microbiomes associated with bovine mastitis by metagenomic deep sequencing. ASM microbes Conf. 2019, June 20-24, San Francisco, USA.

Salma Akter, Ishrat Dilruba Mishu, ASM Rubayetul Alam, M Anwar Hossain and Munawar Sultana; Assessment of VP2 Capsid Protein as a Candidate for Development of a Serotype

Independent Diagnostic Tool for Foot and Mouth Disease Virus; Abstract Control No# 1499, ASM Microbe Online 2020, American Society of Microbiology (ASM), June'2020.

Salma Akter, Shaminur Rahman Shakil, Mafruha Marjia, Munawar Sultana and M Anwar Hossain; Efficacy of a multi-epitope recombinant protein as a vaccine candidate against Foot and Mouth Disease Virus Type O in Bangladesh; Abstract Reference No# P2.20; 13L11 Vaccine Congress, September, 2019; Bangkok, Thailand.

Abstract No: 10; 33rd Annual Conference of Bangladesh Society of Microbiologists (BSM); December, 2019; Dhaka University, Dhaka

M. Sultana, S. Basar, Y. Ahmed, M. Khan, M. A. Hossain. Antibiotic Resistance Scenario in Bangladesh: Mechanism and Ecological Impact (2016) American Society of Microbiology (ASM)

H. Ullah, M. A. Siddique, R. P. Chakrabarty, M. R. Ali, **M. Sultana**, M. A. Hossain Comparative Genomics of Foot-and-Mouth Disease Virus Type O Circulating in Bangladesh (2016) American Society of Microbiology (ASM)

M. Sultana, H. Ullah, M. A. Siddique, A. Rahman, S. T. Towhid, M. A. Hossain. Molecular Phylogeography of Foot and Mouth Disease Virus in Bangladesh (2016) American Society of Microbiology (ASM)

M.A. Siddique, H. Ullah, R. P. Chakrabarty, **M. Sultana**, M.A. Hossain (2015). Foot- and- Mouth Disease in Bangladesh: Epidemiology and Genome Analysis. Accepted for American Society for Microbiology (ASM) Conference, 2015.

M. Sultana, R. Bilkis, S. P. Nandi, M.A. Hossain. (2013). Emergence of Multidrug resistant Zoonotic Salmonella in Poultry of Savar, Bangladesh

Sultana M., Adnan N., Islam O. K., Nandi S. P., and Hossain M. A. (2013). 'Ciprofloxacin resistance in clinical waste water (CWW) isolates of extended spectrum β - lactamase (ESBL) producing *Escherichia* spp. from Bangladesh' is **accepted** by Federation of European Microbiological Societies (FEMS), in Fifth Congress of European Microbiologist, which was held in July 21-25, 2013; Leipzig, Germany.

Nandi S. P., Rahman M. Z., Momtaz S., **Sultana M.**, and Hossain M. A. (2013). 'Emergence and Distribution of Foot-and-Mouth Disease Virus (FMDV) subtypes during recent outbreaks in Bangladesh' is **accepted** by Federation of European Microbiological Societies (FEMS), in Fifth Congress of European Microbiologist, which will be held in July 21-25, 2013; Leipzig, Germany.

Nandi S. P., **Sultana M.**, Mahmud M. S. and Hossain M. A. (2012). 'Molecular Characterization of Multidrug Resistant-Extended Spectrum β -Lactamase Producing Zoonotic *Enterobacter* spp. from Poultry of Bangladesh'; **(Poster Presentation)**. First AFSA Conferences on Food Safety and Food Security held on September 15-17, 2012; in Osaka, Japan.

Rahman A., Ashraf M. A., Nandi S. P., Alam S. M. S., Zaman F., **Sultana M.**, Hossain M. A.; 'FMD Virus Genotyping Tool' (Poster Presentation). International Training Workshop on Bioinformatics and computational biology in South Asian perspective held on September 25-26 in Chittagong, Bangladesh. (Acquired the first price).

Poster on “**Emergence of multidrug resistance zoonotic *Salmonella* from poultry of Savar, Bangladesh**” was presented in 1st AFSA (Asian Food Security Association) on Food Safety and Food Security, 15-17, 2012, Osaka, Japan.

Poster on “**Molecular Characterization of multidrug resistant-Extended Spectrum Beta Lactamase Producing Zoonotic *Enterobacter* spp. from Poultry of Bangladesh**” was presented in 1st AFSA (Asian Food Security Association) on Food Safety and Food Security, 15-17, 2012, Osaka, Japan.

Poster on “**Antigenic Variation of Capsid Protein VP1 of Foot-and-Mouth Disease Virus Prevalent in South Asian Region**” was presented in 1st AFSA (Asian Food Security Association) on Food Safety and Food Security, 15-17, 2012, Osaka, Japan.

Poster on “**FMD Virus Genotyping Tool**” was presented in 1st AFSA (Asian Food Security Association) on Food Safety and Food Security, 15-17, 2012, Osaka, Japan.

Poster on “**Serological cross-reactivity of environmental isolates of *Enterobacter*, *Escherichia*, *Stenotrophomonas* and *Aerococcus* with *Shigella* spp. specific antisera**” was presented in 11th Asian Conference on Diarrhoeal Diseases and Nutrition March 8-10, 2006, Bangkok, Thailand.

Poster on “**Bacterial diversity in arsenic contaminated overburden soils and the corresponding genes of arsenite oxidase**” was presented as a poster in 60th Annual conference on Association for General and Applied Microbiology (**VAAM**) 8-11 March, 2009, Bochum, Germany.

Poster on “**Bacterial diversity in arsenic contaminated overburden soils and the corresponding genes of arsenite oxidase**” was presented in **FEMS** (Federation of European Microbiological Societies), 3rd Annual conference of European Microbiologist, June, 2009, Gothenburg, Sweden.

National

1. Sabrin Bashar, Santonu Kumar Sanyal, M Anwar Hossain and **Munawar Sultana** (2015) Mechanism of Carbapenem Resistance in clinical *Pseudomonas* spp. in Bangladesh. International Conference (29th AGM), Bangladesh Society of Microbiologist (BSM), Abstract No# 105.
2. Farzana Diba, Santonu Kumar Sanyal, Sadikur Rahman, Mala Khan, M Anwar Hossain and **Munawar Sultana** (2015) Isolation and Molecular Profiling of Arsenotrophic Bacteria from Ground water and Soil of Arsenic prone Areas in Bangladesh. International Conference (29th AGM), Bangladesh Society of Microbiologist (BSM), Abstract No# 106.
3. Khondokar Fahmida Sultana, Mohammad Anwar Siddique, **Munawar Sultana** and M Anwar Hossain (2015) Screening and Molecular Characterization of Multidrug Resistant *Salmonella* spp. from Poultry Samples. International Conference (29th AGM), Bangladesh Society of Microbiologist (BSM), Abstract No# 104.
4. Juthika Mandal, Mohammad Anwar Siddique, **Munawar Sultana** and M Anwar Hossain (2015) Validation of Real Time PCR assay for Detection and Quantification of *Salmonella* spp. International Conference (29th AGM), Bangladesh Society of Microbiologist (BSM), Abstract No# 108.

5. Ram Prosad Chakrobarty, **Munawar Sultana**, Saddlee Shehreen, Selina Akhter and **M Anwar Hossain** (2015) Contribution of Efflux Pump *qnrS* and DNA gyrase Alteration in Ciprofloxacin Resistance in *Escherichia* spp. International Conference (29th AGM), Bangladesh Society of Microbiologist (BSM), Abstract No# 103.
6. SM Sabbir Alam , Arafat Rahman, Sadikur Rahman, Saddam Hossain **Munawar Sultana** and **M Anwar Hossain** (2015) A Comprehensive Study of FMDV Genotypes Using FMDV Genotyping Tool. International Conference (29th AGM), Bangladesh Society of Microbiologist (BSM), Abstract No# 101.
7. Ovinu Kibria Islam, Dirk Bockmuehl, **Munawar Sultana**, M Anwar Hossain (2015) Efficacy of Sanitizing Agents on *Pseudomonas fluorescence* Migula 1895 Biofilm on Food Processing Surfaces. International Conference (29th AGM), Bangladesh Society of Microbiologist (BSM), Abstract No# 102.
8. Samina Momtaz, Arafat Rahman, **Munawar Sultana** and M Anwar Hossain (2015) Prediction of Peptide Vaccine Epitopes for Foot-and-Mouth-Disease Virus Prevalent in Bangladesh. International Conference (29th AGM), Bangladesh Society of Microbiologist (BSM), Abstract No# 109.
9. Md. Inja-Mamun Haque, Mohammad Anwar Siddique, Santonu Kumar Sanyal, Anwar Hossain, **Munawar Sultana**, Mahmud Hasan, M Anwar Hossain (2015) Seasonal Prevalence of White Spot Syndrome Virus (WSSV) in Cultured Tiger Shrimp (*Penaeus monodon*) of Bangladesh. International Conference (29th AGM), Bangladesh Society of Microbiologist (BSM), Abstract No# 155.
10. Huzzat Ullah, Mohammad Anwar Siddique, Ram Prosad Chakrabarty, Md. Rahmat Ali, Arafat Rahman, **Munawar Sultana**, M. Anwar Hossain (2015) Isolation and Genome Analysis of Circulatory Foot-and-Mouth-Disease Virus in Bangladesh. International Conference (29th AGM), Bangladesh Society of Microbiologist (BSM)
11. Poster on ‘Microbial quality of raw, powdered and pasteurized milk samples originated from cows and camels in Bangladesh’ was presented and awarded 2nd prize in the science fair organized by NSU-Life science club, in 2010.
12. **Sultana M.**, Naeem N., Sultana F., Nandi S. P., and Hossain M. A. (2013). ‘Antibiotic Pollution and Occurrence of Multi-Drug Resistant (MDR) Bacteria in Environments of Bangladesh’ is submitted in First International conference on biotechnology (ICB) May 25-26, 2013; in Bangladesh.
13. Nandi S. P., Rahman M. Z., Momtaz S., **Sultana M.**, and Hossain M. A. (2013). ‘Foot-and-Mouth Disease Virus (FMDV) Subtypes Circulating During Recent Outbreaks in Bangladesh’ is accepted as oral presentation by upcoming BSM (Bangladesh Society of Microbiologist) conference.
14. Nandi S. P., **Sultana M.**, Mahmud M. S. and Hossain M. A. (2013). ‘Molecular Characterization of Emerging Multidrug Resistant Zoonotic *Salmonella* from Poultry of Savar, Bangladesh’ is presented as oral in 10th Annual Scientific Conference of CVASU in 6 April, 2013.
15. K.M. Mazharul Alam, Salma Akter, M Anwar Hossain, **Munawar Sultana**. Development of VP1-based sero-diagnostic kit for post-vaccination immuno-surveillance of Foot-and-Mouth

Disease Virus (FMDV). (BSM annual conference , December 2021# abstract no: OIPB-03 (Oral presentation), awarded as the best oral presentation

16. Md. Hasanul Banna Siam, Ahmed Salman Sirajee, M. Anwar Hossain, **Munawar Sultana**. Identification of quorum Sensing inhibitors against *LasR* protein in a clinical isolate of MDR *Pseudomonas aeruginosa* DMC-27b by structure-based virtual screening. (BSM annual conference , December 2021# abstract no: PIPB-06 (Poster presentation)

17. Anamica Hossain, KM Mazharul Alam, Humaira Anjume, Kazi Alamgir Hossain, Salma Akter, Md. Anwar Hossain, **Munawar Sultana**. Synthesis and Evaluation of structural and non-structural proteins of Foot-and-Mouth Disease Virus (FMDV) for Serotype -dependent and -Independent Detection of Infection. BSM annual conference, January 2023 # Abstract no: FAEO-04 (awarded as the best oral presentation)

18. Momtaz Zamila_Bukhraid, Md. Shahdat Hossain, Ashabul Yeamin, Humaira Anjume, Anamica Hossain, Aksa Hossain Nizhum, M. Anwar Hossain, **Munawar Sultana**. Comparative whole genome analysis of arsenic metabolizing *Klebsiella pneumonia* BHS13, *Achromobacter aegrifaciens* BAS32, *Microbacterium paraoxydans* BHS 25. BSM annual conference, January 2023 # Abstract no:GEBP-12 (awarded as the best poster award, 1st runner up)

19. Aksa Hossain Nizhum, Md. Masud Alom, M. Nazmul Hoque, Sheikh Mokhlesur Rahman, Md. Anwar Hossain, **Munawar Sultana**. Metagenomic investigation and culture-based analysis of microbial diversity of Buriganga river water in Bangladesh. BSM annual conference, January 2023 # Abstract no:GEBP-17.

20. K.M. Mazharul Alam, Salma Akter, Kazi Alamgir Hossain, , M. Anwar Hossain and Munawar Sultana. Heterologous Expression of VP1 Capsid Protein of Foot and Mouth Disease Virus (FMDV) in *Escherichia coli* and its Evaluation as a Capture Antigen for Serotype-dependent Detection of Anti-FMDV Antibodies. International Colloquium on Authentic Scientific Publication organized by National Young Academy of Bangladesh (NYAB) 14 &15 July 2022 (Oral presentation, selected as best oral presentation). #Abstract ID: LSO- 06

21. Humaira Anjume, Kazi Alamgir Hossain, Ashabul Yeamin, M. Anwar Hossain and Munawar Sultana. Epidemiological Surveillance of Foot and Mouth Disease Virus and Emergence of Novel Sub-lineage of PanAsia-2 in Bangladesh. International Colloquium on Authentic Scientific Publication organized by National Young Academy of Bangladesh (NYAB) 14 &15 July 2022 (poster presentation). #Abstract ID: LSO- 09.

22. Humaira Anjume, Momtaz Zamila Bukhraid, Ashabul Yeamin, K.M. Mazharul Alam, Anamica Hossain, Aksa Hossain Nizhum, M. Anwar Hossain, Munawar Sultana. Dissemination of Arsenic transforming potential within diverse arsenotrophic bacteria and cloning of aioBA gene of *Achromobacter xylosoxidans* BHW15 in suitable vector for heterologous expression. International conference on Nano-bio and Advanced material engineering NAME-2023, January 2023 (Poster presentation).

23. Genomic Insights into Multidrug Resistance, Virulence, & Marine Adaptation in *Enterobacter cloacae* from Coastal Waters, ISBM International E-Conference 2025, Md. Arifur Rahman, Rafid Muntasir Ul Azam, Md. Sazib Hossain, Samina Momtaz, Anamica Hossain, **Munawar Sultana**

24. Genome Insights into a Salt-Resistant and Multidrug-Resistant *Escherichia coli* Isolated from Cox's Bazar Water, ISBM International E-Conference 2025, Rafid Muntasir Ul Azam, Md. Sazib Hossain, Md.Arifur Rahman, **Munawar Sultana**
25. Heterologous Expression of the Receptor-Binding Phage Protein (RBPP) from *Salmonella* Phage SAL_R1S and Electrochemical Detection of *Salmonella* Typhi, International Biotechnology Conference 2025, International Biotechnology Conference 2025, Md.Arifur Rahman, Md. Romzan Ali, Md. Zaved Hossain Khan, **Munawar Sultana**
26. Designing of an in-house diagnostic platform incorporating serotype-dependent and -independent detection of Foot-and-Mouth Disease Virus (FMDV), 38th BSM Annual Conference, Sudipta Chowdhury Chaity, Kazi Alamgir Hossain, K.M. Mazharul Alam, K.M. Mazharul Alam, **Munawar Sultana**.
27. Metagenomic Insights Revealing Alteration in Microbial Diversity Across Sea Water Samples of Cox's Bazar, 38th BSM Annual International Conference 2025, Md. Arifur Rahman, Ayman Bin Abdul Mannan, Nils Kare Birkeland, Anowara Begum, Anamica Hossain, Md. Anwar Hossain, **Munawar Sultana** .
28. Harnessing Bacteriophage Specificity for the Detection of Typhoid Pathogen on a Carbon Nanotube Platform, 37th BSM Annual Conference, Md Hasibul Hassan, Md.Arifur Rahman, Md. Romzan Ali, Md. Zaved Hossain Khan, **Munawar Sultana**
29. Isolation and Characterization of Lytic Bacteriophage of Pathogenic *Salmonella* Typhi, 37th BSM Annual Conference, Md. Arifur Rahman, Md Hasibul Hassan, Anamica Hossain, Sunjida Afrin, **Munawar Sultana**.
30. Isolation and Characterization of Lytic Bacteriophage of Pathogenic *Salmonella* Typhi and Evaluation of its Potential Therapeutic Application, BCSIR Congress-2023, Md Hasibul Hassan, Md. Arifur Rahman, Sunjida Afrin, Anamica Hossain, Md. Anwar Hossain, **Munawar Sultana**

Complete genomes Bacteria

1. Saha,O., Rahman,MS., Islam,M.R., Hossain,MA. and Sultana,M.(2020), Charaterization of Multidrug resistance *Escherichia Coli*; NCBI BioProject: PRJNA659847; BioSample: SAMN15928328; Accession: JACVMT000000000.
2. Saha,O., Rahman,MS., Islam,MR., Hossain,MA. and Sultana,M.(2020), Charaterization of Multidrug resistance *Escherichia Coli*; NCBI BioProject: PRJNA659847; BioSample: SAMN15928329; Accession: JACVMS000000000.
3. Saha,O., Rahman,M.S., Islam,M.R., Hossain,MA. and Sultana,M.(2020), Charaterization of Multidrug resistance *Escherichia Coli*; NCBI BioProject: PRJNA659847; BioSample: SAMN15928330; Accession: JACVMR000000000.
4. Saha,O., Rahman,MS., Islam,MR., Hossain,MA. and Sultana,M.(2020), De novo Genome Sequence of *Pasteurella multocida* type B; NCBI BioProject: PRJNA626386; BioSample: SAMN14639261; Accession: CP052764.
5. Saha,O., Rahman,M.S., Islam,M.R., Hossain,M.A. and Sultana,M.(2020), De novo Genome Sequence of *Pasteurella multocida* type B; NCBI BioProject: PRJNA626386; BioSample: SAMN14639262; Accession: CP052765.
6. Jahan,MI., Hossain,MA. and Sultana,M. (2020), The complete genome sequence of

Acinetobacter baumannii DMC 32a; NCBI BioProject: PRJNA531439; BioSample: SAMN11357878; Accession: SRZJ000000000.

7. Jahan,MI., Hossain,MA. and Sultana,M. (2020), *Klebsiella pneumoniae* DMC-17a, complete genome sequence; NCBI BioProject: PRJNA590027; BioSample: SAMN13315560; Accession: WLUY000000000.
8. Jahan,MI., Hossain,MA. and Sultana,M. (2020), Complete genome sequence of *Klebsiella pneumoniae* DMC-19b; NCBI BioProject: PRJNA588974; BioSample: SAMN13262230; Accession: WKJE000000000.
9. Jahan,MI., Hossain,MA. and Sultana,M. (2020), Complete genome of *Acinetobacter baumannii*; NCBI BioProject: PRJNA531439; BioSample: SAMN11357878; Accession: SRZJ000000000.
10. Saha,O., Hossain,MA. and Sultana,M. (2020), Complete genome sequence of *Escherichia fergusonii* strain in Bangladesh; NCBI BioProject: PRJNA627862; BioSample: SAMN14688229; Accession: JABCUC000000000.
11. Shuvo,MSR., Istiaq,A., Hossain,MA. and Sultana,M. (2020), Whole genome sequence of arsenite oxidizing *Achromobacter xylosoxidans* BHW-15; NCBI BioProject: PRJNA448204; BioSample: SAMN08824771; Accession: PZMK000000000.