



Md. Fakruddin, PhD

Assistant Professor

Department of Biochemistry & Microbiology

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About Myself

I am a biological and medical science researcher with overall lab experience especially in cell-based assay development, molecular biology, hematology and microbiome research as well as drafting corresponding technical and research documents. I am a self-motivated, goal-oriented person and pride myself on performing to the best of my abilities in whatever task I am faced with. I am solutions minded and able to think on my feet as well as being able to make a positive contribution to a team environment.

Academic Qualifications

-PhD in Medical Sciences, Department of Molecular Physiology, Graduate School of Medical Sciences, Kumamoto University, Japan.

-Master of Science in Microbiology (2007-2009), University of Dhaka, Bangladesh.

-Bachelor of Science (Honors) in Microbiology (2003-2007), University of Dhaka, Bangladesh.

Specialization

-Hematopoiesis, Stem cell, Mitochondria and tRNA biology, Molecular biology, Microbiology, Biotechnology

-Next Generation Sequencing (NGS), Genomic analysis, R-Package, Bioinformatics

-Microbiological testing and quality control, accreditation ISO 17025/15189

-Research and development project management (National/International)

Professional and Research Experience

-2021~onward: Assistant Professor, Department of Biochemistry & Microbiology, School of Health & Life Sciences, North South University, Dhaka, Bangladesh.

-2020-2021: Specially Appointed Assistant Professor, Laboratory of Stem Cell Stress & Laboratory of Hematopoietic Stem Cell Engineering, International Research Center for Medical Sciences (IRCMS), Kumamoto University, Japan.

-2018-2020: JSPS (Japan Society for Promotion of Sciences) Post-Doctoral Fellow, Laboratory of Stem Cell Stress, International Research Center for Medical Sciences (IRCMS), Kumamoto University, Japan.

-2017-2018: Post-Doctoral Fellow, Laboratory of Stem Cell Stress, International Research Center for Medical Sciences (IRCMS), Kumamoto University, Japan.

-2013-2017: PhD Student, Department of Molecular Physiology, Graduate School of Medical Sciences, Kumamoto University, Japan.

Project title: Physiological function and mechanism of mitochondrial diseases caused by taurine-modification of mitochondrial tRNAs by Mitochondrial Translation Optimization protein-1 (MTO1).

-2009-2018: Scientific Officer
Industrial Microbiology Laboratory, Institute of Food Science and Technology, Bangladesh Council of Scientific and Industrial Research (BCSIR), Dhaka, Bangladesh.

-2007-2009: Masters Research Student
Department of Microbiology, University of Dhaka.
Thesis title: Seasonal Variation in the community structure of *E. coli* and *Shigella* spp. in the aquatic environment of Bangladesh.

-2006-2007: Bachelor Research Project
Department of Microbiology, University of Dhaka.
Research Project title: Prevalence of Antimicrobial Resistant Bacteria Cultured from Cattle feces and Surface water.

Research Grants

1. BMRC Research Grant 2023-2024: Project title- Observations on Clinico-Epidemiological Variations, Serological Physiognomies & Genetic Diversities of DEN-virus: Lessons to be Learnt Towards strengthening Diagnostic Precision of Different DEN types Leading to Re/Characterizations of Sero-immunological Evidences and Molecular Relatedness of DENV. Awarded fund- 500,000 BDT.

2. Research Contract from Bangamata National Cellular and Molecular Research Center (BNCMRC) 2022-2023: Project title- Expression of *Shh* in Molecular Subtypes of Breast Cancer: Patterns and Variations in Bangladeshi Patients. Awarded fund- 500,000 BDT.

3. University Grant Commission (UGC) Research Grant 2022-2023: Project title- Bacteriophage as Potential Biocontrol agent against Multi-Drug resistant (MDR) bacteria. Awarded fund- 300,000 BDT.

4. Ministry of Science & Technology, Govt. of Bangladesh Special Allocation grant 2022-2023: Project title- Bioprospecting stress-tolerant *Pseudomonas fluorescens* from rice rhizosphere for the application as Biofungicide in agriculture. Awarded fund- 400,000 BDT.

5. CTRG Research grant, North South University 2022-2023: Project title- Prevalence and characterization of Intracellular Bacteria from Red blood cells of poultry in Dhaka city. Awarded fund- 500,000 BDT.

6. CTRG Research grant, North South University 2022-2023: Project title- Characterization of stress-tolerant *Pseudomonas fluorescens* from rice rhizosphere for the application as Biofungicide. Awarded fund- 450,000 BDT.

7. CTRG Research grant, North South University 2022-2023: Project title- Phage Therapy: Exploring Bacteriophage as a Biocontrol agent against Isolated Foodborne pathogens. Awarded fund- 479,840 BDT.

8. Ministry of Science & Technology, Govt. of Bangladesh R&D grant 2021-2022: Project title- Screening of microbial bioactive modulating mitochondrial function for potential therapeutic applications. Awarded fund- 90,000 BDT.

9. Tokyo Biomedical Research Foundation Fellowship 2021-2022: Project title- Taurine modification of mitochondrial tRNAs is indispensable for fetal erythroid differentiation. Awarded fund- 5 Million JPY (Salary + Research).

10. Senshin Medical Research Grant 2020-2021: Project title- Taurine modification of mitochondrial tRNA regulates terminal erythroid differentiation through ubiquitin-proteasome pathway. Awarded fund- 1 Million JPY.

11. JSPS Research Grant 2018-2020: Project title- Role of Inflammatory stress on initiation and progression of clonal hematopoiesis. Awarded fund- 10.8 Million JPY (Salary + Research).

12. MEXT Grants-in-Aid for Scientific Research (KAKENHI) (No-18K16124) 2018-2019: Project title- Mitochondrial transfer RNA modifications in normal and stressed hematopoiesis. Awarded fund- 3.3 Million JPY.

13. 2012-2013: Pilot project for evaluation of Baker's yeast production by fed-batch fermentation using molasses as substrate. Sponsor- Keru & Co., Darshana, Bangladesh. [This project was performed in Industrial Microbiology Laboratory, Institute of Food Science and Technology, Bangladesh Council of Scientific and Industrial Research (BCSIR).]

14. Special Allocation Research project, Ministry of Science and Technology, Govt. of Bangladesh 2011-2012: Project title: Development and validation of a rapid multiplex PCR method for detection of Pathogenic microorganisms in shrimp value chain of Bangladesh. Awarded fund- 300,000 BDT.

Editorial Experience

a) Editorial Board Member- EC Microbiology; Journal of Infectious Disease Diagnosis and

Therapy; International Journal of Pharmaceutical and Chemical Sciences; International Journal of Life Science and Pharma Research; Journal of Advanced Scientific Research.

b) Review manuscript for various journals on a regular basis (Reviewer profile at Publons <https://publons.com/author/251914/md-fakruddin#profile>).

Awards and Achievement

- a) Dhaka Board Scholarship for the result of H.S.C. exam.
- b) **DU-JICF** scholarship awarded by Japan International Corporation Fund.
- c) **Deans Award** for excellent result in B. Sc. (Hons.)
- d) Japanese Government (**MEXT**) Scholarship for PhD program.
- e) **JSPS Post-Doctoral Fellowship** awarded by Japanese Government (**MEXT**).

Membership

- a) Japanese Society of Hematology (JSH)
- b) American Society of Microbiology (ASM)
- c) Graduate Microbiologist Association (GMA)
- d) Bangladesh Society of Microbiologists (BSM)
- e) Bangladesh Society of Bioethics
- f) National Young Academy Bangladesh (NYAB)

Language proficiency

-*Bengali*: Mother tongue.

-*English*: Fluent (reading/writing/speaking/understanding; TOEFL-100; IELTS-7.0).

-*Japanese*: Fair (speaking/understanding).

-*Hindi* (Indian): Good (speaking/understanding).

Training

1. Hands on training course on FACS analysis and cell sorting with **BD FACSAria™ IIIu** organized by International Research Center for Medical Sciences (IRCMS), Kumamoto University and Becton-Dickinson (BD) Biosciences, Japan.

2. Training course on "**Long Term Preservation and Management of Microbial Resources with Agricultural Importance**", Held at National Center for Genetic Engineering and Biotechnology (BIOTEC), Thailand Science Park, Thailand from 23 to 25 May, 2011, organized by Asian Consortium for the Conservation and Sustainable Use of microbial Resources (ACM).

3. In-depth Understanding and Implementation of ISO/IEC 17025:2005 – *General Requirements for the Competence of Testing and Calibration Laboratories*, Good Laboratory Practices (GLP), and Introduction and Awareness on ISO 22000:2005 *Food Safety Management Systems – Requirements for any Organization in the Food Chain*. held at BCSIR, Dhaka, Bangladesh from 10 to 26 October 2010 organized by UNIDO under EU and NORAD funded BEST Program in cooperation with BCSIR.

4. 'Training Workshop on Laboratory Management and Assessment as per ISO/IEC 17025' organized by BCSIR with participation of BAB (Bangladesh Accreditation Board). 23 January to 02 February.

5. In-House Training on "Atomic Absorption Spectrophotometer (AAS)" organized by BCSIR.

6. Training on "Research Methodology", organized by BCSIR.

7. Training course on "SPSS and applied Statistics" from Department of Applied Statistics, University of Dhaka.

8. Training course on "Procurement Management", organized by National Academy of Planning and Development, from 01 January to 19 January, 2012.

9. Training on "Internal Audit of ISO 17025/15189 Accreditation", organized by UNIDO on 12 July, 2012.

Publication Profile

ResearchGate: Fakruddin Md. (https://www.researchgate.net/profile/Fakruddin_Md)

Google Scholar Citation: Md Fakruddin (More than 3340 citation, h index-29) (https://scholar.google.com/citations?user=t_qyvtEAAAAAJ&hl=en)

Original Articles: (71)

1. Tasbir Amin, Amana Hossain, Nusrat Jerin, Shahnewaj Bin Mannan, Noor Jahan Akter, Murad Hossain, Monir Uddin Ahmed, Jinath Sultana Jime, Nayeema Bulbul, Ashrafus Safa, Md. Asaduzzaman Shishir, **Md. Fakruddin**. (2024) Traditional Medicine/Remedies for Novel Coronavirus (SARS-CoV-2/COVID-19): a systematic review and meta-analysis. Coronaviruses (Scopus Indexed; q3) (Accepted).

2. Mahmuda Akhter Akhi, Umme Tamanna Ferdous, **Md. Fakruddin**, Suvamoy Datta, Md. Asaduzzaman Shishir. (2023) In Silico Evaluation of Potential Ligands of Cancer Cells for Surfactin from *Bacillus* spp.: Potential Ligands of Cancer Cells for Surfactin. Proceedings of Anticancer Research, 7(3): 18-28.

3. Kumkum Rahman Mouree, **Md. Fakruddin**, Md. Asaduzzaman Shishir, Nafisa Azmuda, Humaira Akhter. (2023) Bacterial Persistence in Aquatic Environments: A Study of Green Fluorescent Protein (GFP)-Tagged *Escherichia coli* in Laboratory Microcosms. Research Journal of Microbiology 18(1): 63-71. <https://doi.org/10.17311/rjm.2023.63.71>

4. Tania Sultana, **Md. Fakruddin**, Suvamoy Datta, Md. Asaduzzaman Shishir. (2023) Fighting Urinary Tract Infection: Fosfomycin's Efficacy against Uropathogenic *Escherichia coli* Isolates. International Journal of Human and Health Sciences 7(4): 345-350.

5. Jinia Afroz, Md. Al Masud, Esrat Jahan, Ajoy Chowdhury, **Md. Fakruddin**, Md. Asaduzzaman Shishir. (2023) Multi-Antibiotic Resistant *Citrobacter freundii* in Eggs: A Silent Public Health Threat. Microbial Bioactives 6(1): 1-13.

6. **Md. Fakruddin**, Tatsuya Morishima, Takeshi Masuda, Yuxin Wang, Vivien AC Schoonenberg, Falk Butter, Yuichiro Arima, Kazuhito Tomizawa, Fan-Yan Wei, Toshio Suda, Hitoshi Takizawa. Mitochondrial translation regulates terminal erythroid differentiation by maintaining iron homeostasis. bioRxiv 2023.03.05.531223; Doi-
doi: <https://doi.org/10.1101/2023.03.05.531223>

7. Md Abdul Khalek, Md Hasibul Hasan, Harunur Rashid, **Md Fakruddin**, Raisa Rafia, Md Iqbal Hossain, Cotton Chakma, Md Shiblee Sadik Sabuj, Md Aoulad Hosen, Mohammad Shariful Islam and Ms Jinia Afroz (2023). Multi-drug Resistance of Microbial Contaminants of Paper Currencies in Bangladesh: An Overlooked Public Health Concern. Acta Scientific Microbiology 6(1): 3-8.

8. Yoshikazu Hayashi, Maiko Sezaki, Gaku Nakato, Subinoy Biswas, Tatsuya Morishima, **Md. Fakruddin**, Jieun Moon, Soyeon Ahn, Pilhan Kim, Yuji Miyamoto, Hideo Baba, Shiniji Fukuda, Hitoshi Takizawa. Hematopoietic Stem and Progenitor Cells Integrate Bacteroides-derived Innate Immune Signals to Promote Gut Tissue Repair. The EMBO Journal. doi: <https://doi.org/10.1101/2021.10.05.463122> [2021 Impact factor- 14]

9. Nafisa Azmuda, **Md. Fakruddin**, Sirajul Islam Khan, Nils Kare Birkeland. Bacterial community profiling of tropical freshwaters in Bangladesh. Frontiers in Public Health. 7:115. [2019 Impact factor- 2.031]

10. **Md. Fakruddin**, Fan-Yan Wei, Takeo Suzuki, Kana Asano, Takashi Kaieda, Akiko Omori, Ryoma Izumi, Atsushi Fujimura, Taku Kaitsuka, Keishi Miyata, Kimi Araki, Yuichi Oike, Luca Scorrano, Tsutomu Suzuki, Kazuhito Tomizawa. Defective Mitochondrial tRNA Taurine Modification Activates Global Proteostress and Leads to Mitochondrial Disease. Cell Reports. 22: 482-496, 2018. [2017 Impact factor- 8.032]

11. **Md. Fakruddin**, Fan-Yan Wei, Shohei Emura, Shigeru Matsuda, Takehiro Yasukawa, Dongchon Kang, Kazuhito Tomizawa. Cdk5rap1-mediated 2-methylthio-N⁶-isopentenyladenosine modification is absent from nuclear-derived RNA species. Nucleic Acids Research. 45(20): 11954-11961, 2017. [2017 Impact factor- 11.561]

12. **Md. Fakruddin**, Md. Nur Hossain, Monzur Morshed Ahmed. Evaluation of microplate immunocapture method for detection of *Vibrio cholerae*, *Salmonella* Typhi and *Shigella flexneri* from food. BMC Microbiology 17: 189, 2017. [2017 Impact factor- 2.829]

13. Hafsa Afroz, **Md. Fakruddin**, Md. Rana Masud, Kamrunnahar Islam. Incidence of and risk factors for Hospital Acquired Infection in a Tertiary Care Hospital of Dhaka, Bangladesh. Bangladesh Journal of Medical Science. 16(3): 358-369, 2017.

14. **Md. Fakruddin**, Md. Mizanur Rahaman, Md. Nur Hossain, Monzur Morshed Ahmed. Induction and resuscitation of *Cronobacter sakazakii* into viable but non-culturable state at low temperature in water microcosm. Asian Journal of Biological Sciences. 10(2): 64-71, 2017.

15. **Md. Fakruddin**, Razia Sultana, Md. Nur Hossain, Md. Mizanur Rahaman, Monzur Morshed Ahmed. Comparative study of different methods of genomic DNA extraction from Betel leaf (*Piper betle* L.) for detection of *Salmonella* spp. Bangladesh Journal of Industrial Microbiology and Biotechnology. 1(1): 20-28, 2017.

16. **Md. Fakruddin**, Razia Sultana, Md. Nur Hossain, Md. Mizanur Rahaman, Md. Kamrul Islam, Monzur Morshed Ahmed. Occurrence of ingress of *Salmonella* spp. in betel leaf (*Piper betle* L.). International Journal of Food Contamination. 4(1): 6, 2017.
17. **Md. Fakruddin**, Md. Nur Hossain, Monzur Morshed Ahmed. Antimicrobial and antioxidant activities of *Saccharomyces cerevisiae* IFST062013, a potential probiotic. BMC Complementary and Alternative Medicine. 17(1): 64, 2017. [2017 Impact factor- 2.109]
18. **Md. Fakruddin**, Md. Nur Hossain, Abu Md. Ramim, Md. Rashed Naim Rana, Monzur Morshed Ahmed. Evaluation of Ciprofloxacin & Cefixime resistant Bacterial population load in hospital waste of a tertiary care hospital of Dhaka city. Discovery. 53(253): 49-66, 2017.
19. **Md. Fakruddin**, Md. Mizanur Rahaman, Md. Nur Hossain, Monzur Morshed Ahmed. Modelling growth of *Cronobacter sakazakii* IFST082014 in reconstituted powdered infant milk as function of temperature. British Biotechnology Journal. 15(4): 1-7, 2016 (article id-28634).
20. Monzur Morshed Ahmed, **Md. Fakruddin**, Md. Nur Hossain, Khandaker Rayhan Mahbub, Abhijit Chowdhury. Growth response of *Aspergillus flavus* IMS1103 isolated from poultry feed. Asian Journal of Medical and Biological Research. 2(2): 221-228, 2016.
21. Md. Rabiul Islam, Md. Nur Hossain, **Md. Fakruddin**, Khusnade Rabbi, Md. Abdul Baten. Effect of Solid Waste Slurry from Biogas Plant on Soil Parameters and Yield of Spinach (*Spinacia oleracea* L.). Journal of Agriculture and Ecology Research. 5(1): 1-11, 2016, Article no. JAERI.20297
22. **Md. Fakruddin**, Abhijit Chowdhury, Md Nur Hossain, Monzur Morshed Ahmed. Characterization of aflatoxin producing *Aspergillus flavus* from food and feed samples. SpringerPlus. 4(1): 159, 2015. [Impact factor- 0.982]
23. **Md. Fakruddin**, Md. Mizanur Rahaman, Monzur Morshed Ahmed, Md. Mahfuzul Hoque. Occurrence of *Enterobacteriaceae* with Serological Cross Reactivity towards *Salmonella* spp., *Shigella* spp. and *Vibrio cholerae* in Food. British Microbiology Research Journal. 5(1): 44-51, 2015, Article no. BMRJ.2015.005.
24. MK Mohanta, AK Saha, DKMA Saleh, MS Islam, KSB Mannan, **Md. Fakruddin**. Characterization of *Klebsiella granulomatis* pathogenic to silkworm, *Bombyx mori* L. 3Biotech 5(4): 577-583, 2015. [Impact factor- 1.497]
25. **Md. Fakruddin**, Khanjada Shahnewaj Bin Mannan, Reaz Mohammad mazumdar. Correlation Between *in vitro* Biofilm Formation and Virulence Properties of Extra-Intestinal Pathogenic *Escherichia Coli* (Expec). OnLine Journal of Biological Sciences. 14 (4): 261-270, 2014.
26. Syed Masudur Rahman, Md. Masud Alam, Mohammad Ruhul Amin, **Md. Fakruddin**, AFM Shahid-Ud-Daula, Rokeya Siddiqui. Antimicrobial activity and brine shrimp toxicity of methanolic whole plant extract of *Boerhavia repens* L. (Family: Nyctaginaceae). International Journal of Phytopharmacy. 4(6): 1-5, 2014.
27. **Md. Fakruddin**, Md. Mizanur Rahaman, Monzur Morshed Ahmed, Md. Mahfuzul Hoque. Stress tolerant virulent strains of *Cronobacter sakazakii* from Food. Biological Research. 47: 63, 2014. [Impact factor- 2.357]
28. Md. Golam kabir, Md. Monsor Rahman, Nazim Uddin Ahmed, **Md. Fakruddin**, Saiful Islam, Reaz Mohammad Mazumdar. Antioxidant, antimicrobial, toxicity and analgesic properties of ethanol extract of *Solena amplexicaulis* root. Biological Research. 47(1): 36, 2014. [Impact factor- 2.357]
29. Hafsa Afroz, Md, Azhar Ali, **Md. Fakruddin**, Kamrunnahar, Suvamoy Datta. 2014. Prevalence and treatment follow-up of drug-resistant extra-pulmonary tuberculosis in rural

communities in Narshingdi, Bangladesh. International Journal of Advances in Medicine. 1(2): 71-77, 2014.

30. Hafsa Afroz, Md. Manjur Hossain, **Md. Fakruddin**, Md. Afzal Hossain, Zahed Uddin Mahmood Khan, Suvamoy Datta. A 6-year retrospective study of blood-stream *Salmonella* infection and antibiotic susceptibility of *Salmonella enterica* Serovar *typhi* and *paratyphi* in a tertiary care hospital of Dhaka, Bangladesh. Tzu Chi Medical Journal. 26(2): 73-78, 2014.

31. Fouzia Sultana, Kamrunnahar, Hafsa Afroz, Afroz Jahan, **Md. Fakruddin**, Suvamoy Datta. Multi-antibiotic resistant bacteria in frozen food (ready to cook food) of animal origin sold in Dhaka, Bangladesh. Asia pacific Journal of Tropical Biomedicine. 4(suppl 1): S268-S271, 2014.

32. Rana Masud, Hafsa Afroz, **Md. Fakruddin**. Prevalence of extended-spectrum beta-lactamase positive bacteria in radiologically positive urinary tract infection. SpringerPlus 3(1): 216, 2014. [**Impact factor- 0.982**]

33. Md. Mamunur Rashid, **Md. Fakruddin**, Reaz Mohammad Mazumdar, Fatema Kaniz, Md. Alimuddin Chowdhury. Anti-bacterial activity of pigments isolated from pigment forming soil bacteria. British Journal of Pharmaceutical Research. 4(8): 880-894, 2014.

34. Monzur Morshed Ahmed, **Md. Fakruddin**, Md. Mamunur Rashid, Md. Mohaddis Hossain, Md. Mozammel Huq, Md. Mahfuzul Hoque. Semi-Pilot Study of the Production of Biomass and β -D-Fructofuranosidase by *Saccharomyces cerevisiae* IFSTBY111 in a Fed-Batch Fermenter. Industrial Biotechnology. 10(1): 47-52, 2014.

35. **Md. Fakruddin**, Md. Mizanur Rahaman, Monzur Morshed Ahmed, Md. Mahfuzul Hoque. Antimicrobial resistance and virulence factors of enterobacteriaceae isolated from food samples of Bangladesh. International Journal of Microbiology and Immunology Research. 3(1): 12-18, 2014.

36. Abhijit Chowdhury, Md. Sofiul Azam, **Md. Fakruddin**, Md. Nur Hossain, Khandaker Rayhan Mahbub, Md. Mozammel Hoque, Monzur Morshed Ahmed. Isolation and Characterization of Indigenous Cellulase Producing *Trichoderma* Spp. From Bangladesh. World Research Journal of Biotechnology. 1(2): 32-35, 2013.

37. **Md. Fakruddin**, Md. Ariful Islam, Monzur Morshed Ahmed, Nayuun Chowdhury. Process optimization of bioethanol production by stress tolerant yeasts isolated from agro-industrial waste. International Journal of Renewable and Sustainable Energy. 2(4): 133-139, 2013.

38. **Md. Fakruddin**, Md. Ariful Islam, Md. Abdul Quayum, Monzur Morshed Ahmed, Nayuun Chowdhury. Characterization of stress tolerant high potential ethanol producing yeast from agro-industrial waste. American Journal of BioScience. 1(2): 24-34, 2013.

39. Hafsa Afroz, Fouzia Sultana, **Md. Fakruddin**, Kamrunnahar, Zahed Uddin Mahmood Khan, Suvamoy Datta. Isolation of *Escherichia Coli* and *Staphylococcus aureus* From Full Cream Powder Milk Sold under Market Conditions at Dhaka, Bangladesh and Their Antibiotic Susceptibility. Journal of Advanced Scientific Research. 4(3):27-31, 2013.

40. Abhijit Chowdhury, Roly Malaker, Md. Nur Hossain, **Md. Fakruddin**, Rashed Noor and Monzur Morshed Ahmed. Bacteriocin Profiling of Probiotic *Lactobacillus* spp. Isolated from Yoghurt. International Journal of Pharmaceutical Chemistry. 3(3): 50-56, 2013.

41. Md. Afzal Hossain, Hafsa Afroz, Md. Abdur Rahim Khan, Md. Manjur Hossain, A.S.M. Ruhul Quddus, Bidhan Chandra Sengupta, **Md. Fakruddin**, Zahed Uddin Mahmood Khan and Suvamoy Datta. Comparative Analysis of Multi-Drug Resistance Pattern in *Staphylococcus Aureus* Isolated from Skin of Various Professional Groups. Journal of Current Research in Science. 1(6): 489-494, 2013.

42. Hafsa Afroza, G.M. Raisul Alam, Md. Manjur Hossain, **Md. Fakruddin**, Md. Hafizur

Rahman, Zahed Uddin Mahmood Khan, Suvamoy Datta. Evaluation of Iodine-Glycerol for Wet-Mount Preparation of Feces for Detection of Intestinal Parasites. *International Journal of Biological & Medical Research*. 4(4): 3615-3618, 2013.

43. Hafsa Afroz, Md. Monjur Hossain, **Md. Fakruddin**, Md. Afzal Hossain, ZUM Khan, Suvomoy Datta. A Retrospective Study on Seroprevalence of Hepatitis B Virus Surface Antigen (HbsAg) among Healthy Individuals Attending a Tertiary Care Clinic in Dhaka, Bangladesh. *International Journal of Biomedical Research*. 4(6): 245-250, 2013.

44. **Md. Fakruddin**, Abhijit Chowdhury, Md. Nur Hossain, Khanjada Shahnewaj Bin Mannan. Research involving human subjects-Ethical Perspective. *Bangladesh Journal of Bioethics*. 4(2): 41-48, 2013.

45. Hafsa Afroz, Md. Monjur Hossain, **Md. Fakruddin**, Md. Afzal Hossain, ZUM Khan, Suvomoy Datta. Prevalence and Antibiotic Susceptibility Patterns of Bloodstream *Salmonella* Infections in a Tertiary Care Hospital, Dhaka. *Journal of Medical Sciences*. 13(5): 360-366, 2013.

46. **Md. Fakruddin**, Abhijit Chowdhury, Md. Nur Hossain, Khanjada Shahnewaj Bin Mannan. Scientific Freedom & Limits- Clinical Research Perspective. *Bangladesh Journal of Bioethics*. 4(1): 30-34, 2013.

47. **Md. Fakruddin**, Mahmuda Sultana, Monzur Morshed Ahmed, Abhijit Chowdhury, Naiyuum Chowdhury. Multiplex PCR (Polymerase Chain Reaction) assay for detection of *E. coli* O157:H7, *Salmonella* sp., *Vibrio cholerae* & *Vibrio parahaemolyticus* in spiked shrimps (*Penaeus monodon*). *Pakistan Journal of Biological Sciences*. 16(6): 267-274, 2013.

48. Afroz H, Ali MA, **Fakruddin Md.**, Kamrunnahar, Datta S. Prevalence of Multi-Drug Resistant (MDR) pulmonary tuberculosis in a tertiary care hospital of Narshingdi, Bangladesh. *International Journal of Biomedical and Advance Research*. 4(2): 98-104, 2013.

49. **Md. Fakruddin**, Abhijit Chowdhury, Reaz Mohammad Mazumdar, Khanjada Shahnewaj Bin Mannan. A preliminary Study on Virulence Factors and Antimicrobial Resistance in Extra-Intestinal Pathogenic *Escherichia coli* (ExPEC) in Bangladesh. *Indian Journal of Medical Research*. 137(5): 988-990, 2013. **[Impact factor- 1.508]**

50. **Md. Fakruddin**, Abhijit Chowdhury, Zakir Hossain. Competitiveness of PCR to alternate amplification methods. *American Journal of Biochemistry and Molecular Biology*. 3(1): 71-80, 2013.

51. **Md. Fakruddin**, KSB Mannan, RM Mazumdar, H Afroz. Antibacterial, antifungal and antioxidant activities of *Clausena heptaphylla* ethanolic stem bark extract. *BMC Complementary and Alternative Medicine*. 12: 232, 2012. **[Impact factor- 2.109]**

52. M. K. Mohanta, A. K. Saha, M.T. Zamman, A.E. Ekram, A.S. Khan, K.S.B. Mannan, **Md. Fakruddin**. Isolation and Characterization of Carbofuran Degrading Bacteria from Cultivated Soil. *Biochemical & Cellular Archives*. 12(2): 313-320, 2012.

53. Abhijit Chowdhury, Md. Nur Hossain, Nure Jannatul Mostazir, **Md. Fakruddin**, Md. Morsaline Billah, Monzur Morshed Ahmed. Screening of *Lactobacillus* spp from Buffalo yoghurts for Probiotic and Antibacterial Activity. *Journal of Bacteriology & Parasitology*. 3(8):156, 2012.

54. **Md. Fakruddin**, Abhijit Chowdhury, Md. Nur Hossain, Khanjada Shahnewaj Bin Mannan. Ethics in Clinical Research. *Bangladesh Journal of Bioethics*. 3(3): 16-20, 2012.

55. **Md. Fakruddin**, Nishat Sarker, Rashed Noor, Monzur Morshed Ahmed. Protein profiling of *Bacillus thuringiensis* isolated from agro-forest soil in Bangladesh. *Asia Pacific Journal of Molecular Biology and Biotechnology*. 20(4): 139-145, 2012.

56. Md. Nur Hossain, **Md. Fakruddin**, Md. Nurul Islam. Quality comparison and acceptability of yoghurt with different fruit juices. *Journal of Food Processing and Technology*. 3(8): 171, 2012.
57. Md. Nur Hossain, **Md. Fakruddin**, Md. Nurul Islam. Development of Fruit Dahi (Yoghurt) Fortified with Strawberry, Orange and Grapes Juice. *American Journal of Food Technology*. 7(9): 562-570, 2012.
58. **Md. Fakruddin**. Ethics in Stem Cell Research. *Bangladesh Journal of Bioethics*. 3(1):13-18, 2012.
59. **Md. Fakruddin**, Abhijit Chowdhury, Reaz Mohammad Mazumdar, Khanjada Shahnewaj Bin Mannan. Comparative Analysis of Virulence Factors of *Escherichia coli* from Non-Enteric Infections. *Journal of Medical Sciences*. 12(2): 37-44, 2012.
60. **Md. Fakruddin**, Md. Abdul Quayum, Monzur Morshed Ahmed, Naiyyum Chowdhury. Analysis of Key Factors Affecting Ethanol Production by *Saccharomyces cerevisiae* IFST-072011. *Biotechnology*. 11(4): 248-252, 2012.
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