

Md. Aminul Islam Apu

University of Mississippi, Oxford, MS 38677 • mapu@go.olemiss.edu • +1-662-371-5797

ACADEMIC CREDENTIALS

The University of Mississippi, USA.
Doctor of Philosophy in Nutrition

(Anticipated) 2025

Islamic University, Bangladesh
Bachelor of Science in Biotechnology and Genetic Engineering

November 2017

RESEARCH EXPERIENCES

Graduate Research Assistant
Institute of Child Nutrition, Oxford, MS

January 2022-Present

Graduate Research Assistant
Functional Food Materials and Fermentation Lab
Seoul National University, South Korea.

March 2020- December 2021

Research Assistant
ABEx Bio-Research Center
Bangladesh.

January 2019- Present

PUBLICATIONS

* Indicates corresponding author

1. Md. Rashidur Rahman; Toma Rani Majumder; **Md. Aminul Islam Apu**; Alok Kumar Paul; Afrina Afrose; Biplab Kumar Dash* CRISPR-based programmable nucleic acid-binding protein technology can specifically detect fatal tropical disease-causing pathogens; *Journal of Tropical Medicine*; <https://doi.org/10.1155/2022/5390685>
2. Thi Thanh Hanh Nguyen; Dong-Gu Lee; **Md Aminul Islam Apu**; Jong-Hyun Jung; Min-Kyu Kim; Sangyong Lim; Byoungsang Chung; Doman Kim; The bifidogenic effects and dental plaque deformation of non-digestible isomaltooligosaccharides synthesized by dextransucrase and alternansucrase. *Enzyme and Microbial Technology* <https://doi.org/10.1016/j.enzmictec.2021.109955>
3. Md. Amdadul Huq; Muhammad Zubair Siddiqi; Sri Renukadevi Balusamy; M. Mizanur Rahman; Md Ashrafudoulla; **Md. Aminul Islam Apu**; Pulak Maitra; Masoumeh Naserkheil; Jong-Hyun Park; Shahina Akter*; *Pinibacter koreensis* gen. nov., sp. nov., isolated from rhizospheric soil of pine tree; *International Journal of Systematic and Evolutionary Microbiology*; <https://doi.org/10.1099/ijsem.0.005132>
4. Tanzina Akter¹ †, Md Atikur Rahman¹ †, Akhi Moni, **Md. Aminul Islam Apu**, Atqiya Fariha, Md. Abdul Hannan, Md Jamal Uddin*; Prospects for protective potential of Moringa oleifera against kidney diseases. *Plants (MDPI)*; <https://doi.org/10.3390/plants10122818>
5. Md Rashidur Rahman, Md. Amjad Hossain, Md Mozibullah, Fateh Al Mujib, Afrina Afrose, Md. Shahed-Al-Mahmud, **Md. Aminul Islam Apu**; CRISPR is a useful biological tool for detecting nucleic acid of SARS-CoV-2 in human clinical samples; *Journal of Biomedicine & Pharmacotherapy*; <https://doi.org/10.1016/j.biopha.2021.111772>
6. **Md Aminul Islam Apu**, Shamsun Nahar Jolly, Mohammad Minnatul Karim*. Assessment of microbiological quality and anti-bacterial traits of oral liquid drugs used in Bangladesh. *International Journal of Pharmaceutical Science and Research*; Volume 4; Issue 4; October 2019; Page No. 38-40
7. Md. Shariful Islam, Mamun Mia, **Md. Aminul Islam Apu**, Joyanta Halder, Md. Farzanoor Rahman, Maidul Islam, Nasreen Jahan*. A comprehensive review on region based traditional Ayurvedic practitioner's plants secondary metabolites and their phytochemical activities in Bangladesh. *Journal of Pharmacognosy and Phytochemistry* 2015; 3(6): 202-216
8. **Md. Aminul Islam Apu**, *Centella asiatica* L.: A Concise drug review with probable clinical uses. *Mintage journal of Pharmaceutical & Medical Sciences* Vol 5 Issue 1, Jan-March 2016.

PATENT

Md Aminul Islam Apu; Thi Thanh Hanh Nguyen; Doman Kim; Method for producing fermented pepper with increased L-carnitine. (South Korean patent)

POSTER PRESENTATION

Md Aminul Islam Apu; Thi Thanh Hanh Nguyen; Doman Kim; Production and biochemical characterization of fermented black pepper by *Monascus purpureus* K/M. The Korean Society of Food and Nutrition Seoul, South Korea. (November 2021)

AWARDS & ACHIEVEMENTS

1. Graduate Scholarship for Excellent Foreign Students (GSFS) by Seoul National University, South Korea.
2. University Grants Commission Scholarship for Excellent Result by Bangladesh Government
3. Participant, Tenth International Biomarkers & Clinical Conference Baltimore, USA & Third Global Conference on Vaccines Barcelona, Spain.

PROFESSIONAL EXPERIENCES

1. Faculty Member, Starlit School of English, Dhaka Bangladesh.
Teach both Chemistry and Biology (A and O - Level) Cambridge Curriculum
Face to face class and also in online via Zoom.
2. Nutrition officer Bangladesh Bureau of Statistics.
Worked for National House Hold (NHD database) program.
3. Medical Scribe in Augmedix, Dhaka, Bangladesh (Scribe for the USA Doctors.)

SOCIETIES/ORGANIZATIONS

1. Secretary of Oxford Red Cross club in the University of Mississippi, USA.
2. Secretary of Association of Bangladesh Student and Scholar in the University of Mississippi, USA.
3. Reviewer of American Journal of Biomedical and Life Sciences
4. Reviewer of Archive of Food and Nutritional Science.
5. Vice President of (International Relations) Network of Young Biotechnologist of Bangladesh- NYBB
6. Global Ambassador for Fall 2022 at the University of Mississippi.
7. Global Outreach Member American Society for Microbiology ("ASM")
8. Grove Grocery Community Outreach Committee at the University of Mississippi.
9. Member of the Office of Global Engagement, Rallying Against Sexual Assault (RASA), Graduate Student Council, Muslim Student Association of the University of Mississippi.

TECHNICAL SKILLS

- **Wet-Lab Skills:** Microbiological analysis of various clinical specimens. Water Quality Assessment, Quality Control, MPN Technique. Isolation of bacterial pathogens from various samples (sputum, soil, plant nodule) by culture, encapsulation of various types of bacteria. A range of molecular biology techniques including Microbial DNA extraction, purification and amplification by Agarose Gel Electrophoresis and PCR technique. Protein Purification Techniques, SDS-PAGE analysis, UPLC, HPLC, Fermentation
- **Tools & Software:** Microsoft Excel, GraphPad Prism, Discovery Studio, MS Office, BioRender, Google Sheets, Google Docs, Mendeley, Python 3, Windows OS, SPSS, STATA etc.

REFERENCES

Available on request.