

Short Bio
of
Dr. Md. Amirul Islam

Md. Amirul Islam is a Professor and Chairperson of the Department of Pharmacy at East West University, Dhaka, Bangladesh. He earned his Bachelor of Pharmacy degree from Khulna University and completed his PhD in Medicinal Chemistry from the University of New South Wales (UNSW), Sydney, Australia, under a prestigious international postgraduate scholarship.

With more than two decades of experience in teaching, research, and academic administration, Professor Islam has established himself as a leading researcher in the fields of Medicinal Chemistry and drug discovery from natural products specifically bioactive compounds derived from mangrove-associated endophytic fungi and medicinal plants. His research focuses on the isolation and characterization of bioactive compounds from medicinal plants and endophytic fungi, particularly those associated with the Sundarbans mangrove ecosystem, with applications in the development of antibacterial, anticancer, and other therapeutic agents.

Professor Islam has authored over 75 peer-reviewed scientific publications, contributed to a book chapter, and presented his research at numerous national and international conferences. He has successfully secured and managed multiple competitive research grants from national funding agencies, including the Ministry of Science and Technology and the University Grants Commission of Bangladesh. In recognition of his scholarly contributions, he serves as a reviewer for many prestigious international journals and has received several awards and fellowships, including the UNSW International Postgraduate Award and the Best Poster Award at an international ethnopharmacology congress.

Short Bio
of
Dr. Chowdhury Faiz Hossain

Dr. Chowdhury Faiz Hossain is a Professor in the Department of Pharmacy at East West University. He earned his Bachelor of Pharmacy degree from Dhaka University in 1987. He then obtained his Master of Pharmaceutical Sciences and Doctor of Pharmaceutical Sciences degrees from Chiba University in Japan in 1991 and 1994, respectively. During his doctoral studies, he discovered a series of novel small-molecule natural products that possess selective monoamine-B inhibitory activity from the fungus *Monascus anka*.

After completing his doctorate, Dr. Hossain worked as a Research Scientist in the Department of Pharmacognosy at the National Institute of Health Science (NIHS) in Japan for three years. In 1996, he joined the Department of Pharmacy at Dhaka University as an Assistant Professor directly and was promoted to Associate Professor in 2000. In the same year, he was invited to serve as a Visiting Scientist at the National Center for Natural Products Research (NCNPR) at the University of Mississippi in the USA, collaborating with Professor Alice Clark's research group until the end of 2005. Dr. Hossain played a crucial role in several federally funded anticancer research projects at the University of Mississippi. He discovered and characterized various new anti-tumor agents that selectively block the hypoxia-inducible factor-1 α (HIF-1 α) in breast tumor cells. He also

identified a series of dineolignans, known as manassantins, from an aquatic plant, which are the most potent inhibitors of HIF-1 α reported to date. His research resulted in two US patents and several peer-reviewed publications. One notable article on the discovery of lauranditerpenol, published in the Journal of Natural Products, was awarded the Jack L. Beal Award by the American Society of Pharmacognosy for being the best manuscript published in 2004.

After returning from the USA, Dr. Hossain joined Manarat International University as an Associate Professor and Head of the Department in March 2006. He became a full Professor in June 2006. In January 2009, he joined East West University as a Professor. Throughout his tenure at the university, he has served in various capacities, including Dean of the Faculty of Sciences and Engineering for two and a half years, Chairperson of the Department of Pharmacy for seven and a half years, and as a member of the Syndicate and Finance Committee for two and a half years, respectively. He has also been a member of EWU's Academic Council for the last 16 years. Prof. Hossain received a Certificate of Excellence from East West University in 2009 in recognition of his outstanding academic and research contributions. He was honored with the Bangladesh Education Leadership Award in 2019, recognizing him as the Best Professor in Pharmacy Studies by the World Education Congress. Additionally, in 2025, he received East West University's Faculty-Level Best Researcher Award as the top-ranked researcher in the Faculty of Science and Engineering.

**Short Bio
of
Farhana Akter**

Farhana Akter is a pharmacist, researcher, and academic with expertise in pharmaceutical chemistry, nanotechnology, antimicrobial research, and pharmaceutical sciences education. She earned her Bachelor of Pharmacy (Professional) and Master of Pharmacy (M.Pharm.) in Pharmaceutical Chemistry from the University of Dhaka, graduating with outstanding academic performance and receiving university scholarships for both degrees. Ms. Akter currently serves as a Senior Lecturer in the Department of Pharmacy at East West University, Dhaka.

During her postgraduate studies, Ms. Akter conducted research on the synthesis and functional characterization of metallic nanoparticles against resistant bacterial strains at the University of Dhaka. Her research focused on developing nanoparticle-based antimicrobial strategies to address the growing challenge of bacterial resistance. In recognition of her academic and research excellence, she was awarded the prestigious National Science and Technology (NST) Fellowship (2020–2021).

Ms. Akter has authored and co-authored several scientific publications and conference papers in the fields of nanomedicine, antimicrobial research, pharmaceutical analysis, and natural product pharmacology. Her scholarly contributions include research on silver nanoparticles, antibiotic–nanoparticle conjugates, cosmetic product quality assessment.

Short Bio
of
Md. Jahid Hossain

Md. Jahid Hossain is a Lecturer in the Department of Pharmacy at East West University (EWU), Dhaka, Bangladesh. He earned his Master of Pharmacy in Pharmaceutical Technology and Bachelor of Pharmacy from University of Dhaka. Prior to joining EWU, he served as an Officer in Research and Development at Beximco Pharmaceuticals Ltd., where he performed analytical testing of raw materials and finished products, prepared R&D documentation, and gained extensive hands-on experience in HPLC, GC-MS, LC-MS, FTIR and DSC. He has authored 12 peer-reviewed and scopus indexed journal publications and 7 conference proceedings. His research interests include fourth industrial revolution, bioactivity-guided natural product discovery, nanotechnology and advanced drug delivery.

Short Bio
of
Muhammad Salehuddin Ayubee

Muhammad Salehuddin Ayubee is a pharmacist, researcher, and academic with expertise in pharmaceutical chemistry, nanomedicine, and antimicrobial research. He earned his Bachelor in Professional Pharmacy and Masters in Pharmaceutical Chemistry from the University of Dhaka. Mr. Ayubee currently serves as a Senior Lecturer in the Department of Pharmacy at Northern University Bangladesh.

He completed a six-month internship at Dhaka Medical College Hospital (DMCH), where he reviewed patient medication profiles across departments. To expand his biotechnology skill set, he completed a research internship at the National Institute of Biotechnology (NIB), Bangladesh, where he received intensive hands-on training in modern molecular biology, biotechnology, and bioinformatics techniques.

As a Research Assistant of Professor Dr. Md. Abdul Mazid at the University of Dhaka, he worked on a government-funded project entitled “*Synthesis of Penicillin–Nanoparticle Conjugates and Its Functional Characterization against Resistant Bacteria.*” Earlier in his research career, Mr. Ayubee contributed to projects investigating cholinesterase inhibitory compounds from medicinal plants.

He has authored and co-authored multiple peer-reviewed publications in internationally recognized journals, including *PLOS ONE*, *Journal of Cluster Science* (Springer), and *Phytomedicine Plus* (Elsevier). His work has been recognized through the National Science and Technology (NST) Fellowship and the Best Poster Presentation Award in the Nanotechnology and Drug Design category at the 2nd International Conference on Genomics, Nanotech and Bioengineering (ICGNB 2022).