Biography



Professor Dr. K. M. Golam Dastogeer

Professor Dr. K. M. Golam Dastogeer is a Professor in the Department of Plant Pathology at Bangladesh Agricultural University (BAU), Mymensingh, Bangladesh, where he leads the Microbiome Research Lab. He is a plant pathologist and microbiome researcher whose academic and research career spans Bangladesh, Australia, Japan, and the United States. His work focuses on understanding plant-microbe interactions and harnessing beneficial microorganisms to advance sustainable agriculture and improve plant health.

Dr. Dastogeer completed his Bachelor of Science in Agriculture (Honours) and Master of Science in Plant Pathology at Bangladesh Agricultural University, achieving the highest CGPA in both programs. His academic excellence has been recognized through several prestigious distinctions, including the Prime Minister Gold Medal and University Gold Medals. He earned his Ph.D. in Biological Sciences from Murdoch University, Western Australia, where his research focused on fungal endophytes and plant stress tolerance. He subsequently conducted postdoctoral research at the Tokyo University of Agriculture and Technology, Japan, as a JSPS Postdoctoral Research Fellow, followed by postdoctoral research at the University of California, Berkeley, USA, supported by the National Science Foundation (NSF).

His research interests encompass plant pathology, soil-plant microbiome ecology, biological control, plant growth-promoting microorganisms, metagenomics, and quantitative plant pathology, with an increasing focus on machine learning for analysing complex plant-microbe-environment datasets. His research investigates how microbial communities influence plant health, stress tolerance, disease management, and agroecosystem functioning. Through an interdisciplinary approach integrating microbiology, molecular biology, ecology, and quantitative data analysis, he seeks to develop sustainable and science-based solutions for crop production and agricultural and environmental resilience.

Dr. Dastogeer has published 40 scientific journal articles in international journals, including *Agriculture, Ecosystems & Environment*, *Current Plant Biology*, *Environmental and Experimental Botany*, *Frontiers in Microbiology*, *Frontiers in Plant Science*, *Microbial Ecology*, and *Planta*. As

of September 2026, his publications have received more than 1,957 citations on Google Scholar, with an h-index of 22. He has also been recognized among the Stanford/Elsevier Top 2% of Scientists in the 2024 and 2025 listings.

He has presented his research at numerous international scientific conferences, including the IS-MPMI Congress in Portland and Glasgow, the AGU Fall Meeting in Chicago, the Global Soil Biodiversity Conference in Dublin, and the New Phytologist Congress in Singapore.

Dr. Dastogeer has served as Principal Investigator on research projects funded by organizations including the Japan Society for the Promotion of Science (JSPS), the University Grants Commission (UGC), the Ministry of Science and Technology (MoST), and the Nagao Natural Environment Foundation (NEF). He has also served as Co-Principal Investigator on projects supported by the Food and Agriculture Organization of the United Nations (FAO), the National Science Foundation (NSF), and the Krishi Gobeshona Foundation (KGF). These projects have addressed rice rhizosphere microbiomes, banana wilt disease, endophytic microorganisms for biological control, sustainable disease management, hazardous pesticide cataloguing and advocacy, and mycorrhizal fungi associated with the Sal forests of Bangladesh.

Throughout his academic career, he has received several competitive fellowships, travel awards, and professional recognitions, including the JSPS Postdoctoral Fellowship, the UC Berkeley postdoctoral fellowship, the New Phytologist Travel Award, the IS-MPMI Researcher Travel Award, the International Postgraduate Research Scholarship (IPRS) in Australia, and a Mitacs Accelerate Fellowship in Canada, which he declined. He has also received Best Publication Awards from Bangladesh Agricultural University and the Prime Minister Gold Medal.

Dr. Dastogeer contributes to the scientific community through editorial and peer-review activities. He serves as an Associate Editor for *Mycologia* and *Frontiers in Microbiology* and as an Editorial Board member of *BMC Plant Biology*. He regularly reviews manuscripts for more than 30 international journals, including *National Science Review*, *iMeta*, *One Earth*, *Microbiomes*, and *New Phytologist*. He has also reviewed research grant proposals for the European Research Council and the Polish Academy of Sciences. His professional memberships include the American Society for Microbiology, the Bangladesh Phytopathological Society, the Mycological Society of America, the American Phytopathological Society, and the British Ecological Society.

Professor Dastogeer served as Head of the Department of Plant Pathology at Bangladesh Agricultural University from 2023 to 2025. He has supervised and co-supervised postgraduate students and remains committed to research-led teaching, scientific training, and capacity building in plant pathology and microbiome science. His research program seeks to harness plant-associated microbiomes and beneficial microorganisms to develop sustainable approaches for crop production and plant health, with the broader goal of improving agricultural productivity, enhancing stress resilience, supporting biological disease management, and strengthening the sustainability of agricultural systems in Bangladesh and beyond.

Further information about Professor Dr. K. M. Golam Dastogeer is available through the following profiles:

- **Bangladesh Agricultural University:** https://bau.edu.bd/profile/PPATH1013
- **ORCID:** https://orcid.org/0000-0003-4607-119X

Keywords: Plant pathology; Soil-plant microbiome ecology; Biological control; Plant growth-promoting microorganisms; Metagenomics

Elected: 2026

Place of Birth: Kurigram, Bangladesh