

Resume of



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Academic Career:

Name of degree	Institution attended	Year of passing	Result
S.S.C (Science)	Ratandia Rajani Kanto High School	2002	GPA-4.50 (out of 5.00)
H.S.C (Science)	Pangsa University College	2004	GPA-4.20 (out of 5.00)
B.Sc. Agriculture (Honours)	Sher-e-Bangla Agricultural University	2009	GPA-3.73 (out of 4.00)
M.Sc. (Agriculture) in Biochemistry	Sher-e-Bangla Agricultural University	2013	GPA-3.86 (out of 4.00)
PhD (Biochemistry)	Ehime University, Japan	2020	GPA-4.00 (out of 4.00)

Teaching, research and other experiences:

Lecturer	26 May 2013 to 25 May 2015
Assistant Professor	26 May 2015 to 14 September 2020
Associate Professor	15 September 2020 till to date

Scholarship, Fellowships, Awards received:

1. Recipient of Japanese Government (Monbukagakusho) Scholarship to undertake PhD research at The United Graduate School of Agricultural Sciences (UGAS), Ehime University, Japan (2017).

Extra-curricular activities:

1. University Assignments:

- i. Worked as an Associate Director, Outreach program, Sher-e-Bangla Agricultural University (SAU).

2. Other Activities:

- i. Worked as a member, Krishibid Institution Bangladesh, Dhaka Metropolitan Unit.
- ii. Worked as a Social welfare secretary, Krishibid Institution Bangladesh, Dhaka Metropolitan Unit.

Personal Detail:

Name : Debu Kumar Bhattacharjya
Father's Name : Uttam Kumar Bhattacharjya
Mother's Name : Nilima Rani Bhattacharjya
Date of Birth : 02th January, 1985
Nationality : Bangladeshi (by birth)
Mailing Address : Department of Biochemistry and Molecular Biology, Sher-e-Bangla Agricultural University, Dhaka-1207, Bangladesh.
Permanent Address : Vill.- Maliat, P.O. – Ratandia (7722), P.S./Upzilla -Kalukhali, Dist.- Rajbari
Blood Group : A^{+ve}
Sex : Male
Religion : Hindu (Sonaton)
Marital Status : Married

On-Going Research Grants:

1. Working as a Principal Investigator in the project entitled “**Evaluation of the nutritive value of prevalent leafy-vegetables grown in Bangladesh**” funded by the SAURES since 01.01.2023.

Memberships at various organizations:

1. Life Member in Japanese Universities Alumni Association in Bangladesh
2. Member in Forest Biomass Utilization Society, Japan
3. Member in the Japan Wood Research Society
4. Member in Krishibid Institution Bangladesh
5. Member in the Academic Council at Sher-e-Bangla Agricultural University

List of Publications:

A. Thesis:

1. **Bhattacharjya, D.K.** 2020. Study and development of biological activity from edible mushrooms and Citrus macroptera. PhD Thesis. Ehime University, Japan.
2. **Bhattacharjya, D.K.** 2013. Effect of different sawdust substrates on the growth, yield, and nutritional composition of oyster mushroom (*Pleurotus ostreatus*). M.Sc. Thesis. Sher-e-Bangla Agricultural University, Dhaka, Bangladesh.

B. Research publications:

1. Pujirahayu, N., **Bhattacharjya, D.K.**, Suzuki, T., Katayama, T. 2019. α -Glucosidase inhibitory activity of cycloartane-type triterpenes isolated from Indonesian stingless bee propolis and their structure-activity relationship. *Pharmaceuticals* 12, 102.
2. Paul, R.K., Sharif, R.H., **Bhattacharjya, D.K.**, Sarker, D.R., Sen, A., Miah, M.N., Ahmed, K.U. 2018. Physicochemical characters of oilseed from selected groundnut genotypes. *Bioresearch Communications* 4 (2), 541–554.
3. Kabir, H., Paul, R.K., Rahaman, M.S., Ahmad, M.F., **Bhattacharjya, D.K.**, Rahaman M.S. 2017. Method validation for assay of loperamide hydrochloride by HPLC in loperamide hydrochloride tablets. *International Journal of Advanced Research in Chemical Science* 4 (4), 11–27.
4. Miah, M.N., Begum, A., Shelly, N.J., **Bhattacharjya, D.K.**, Paul, R.K., Kabir, M.H. 2017. Effect of different saw dust substrates on the growth, yield and proximate composition of white oyster mushroom (*Pleurotus ostreatus*). *Bioresearch Communications* 3 (2), 397–410.
5. Sharif, R.H., Paul, R.K., **Bhattacharjya, D.K.**, Ahmed, K.U. 2017. Physicochemical characters of oilseeds from selected mustard genotypes. *Journal of the Bangladesh Agricultural University* 15 (1), 27–40.
6. Paul, R.K., Kabir, H., Chowdhury, U.K., Rahaman, M.S., Ahmad, M.F., **Bhattacharjya, D.K.** 2016. *In Vitro* antioxidant activity of *Withania Somnifera* root. *International Journal of Advanced Research in Chemical Science (IJARCS)* 3 (3), 45–56.
7. Rashid, M.H., **Bhattacharjya, D.K.**, Paul, R.K., Rahaman, M.S., Rahaman, M.S., Miah, M.N., Ahmed, K.U. 2016. Effect of different saw dust substrates on the growth and yield of oyster mushroom (*Pleurotus florida*). *Bioresearch Communications* 2 (1), 193–199.
8. Paul, R.K., **Bhattacharjya, D.K.**, Kabir, A.K.L., Rashid, M.H., Rahaman, M.S., Rahaman, M.S., Miah, M.N., Ahmed, K.U. 2015. Effect of different saw dust substrates on the nutritional composition of oyster mushroom (*Pleurotus florida*) and its application on human health. *Dhaka Univ. J. Pharm. Sci.* 14 (2), 215–223.
9. **Bhattacharjya, D.K.**, Paul, R.K., Miah, M.N., Ahmed K.U. 2015. Comparative study on nutritional composition of oyster mushroom (*Pleurotus ostreatus*) cultivated on different sawdust substrates. *Bioresearch Communications* 1 (2), 93–98.
10. Hosen, M., Chowdhury, M.F.N., Uddin, M.S., Paul, R.K., **Bhattacharjya, D.K.** 2014. Maintenance and characterization of new exotic inbred line of maize. *IOSR Journal of Agriculture and Veterinary Science (IOSR-JAVS)*, 7 (8), 62–66.
11. Chowdhury, M.F.N., Ahmed, K.U., Hosen, M., Paul, R.K., **Bhattacharjya, D.K.** 2014. Evaluation of grain weight, moisture, dry matter, oil cake, β -carotene, oil constant and aflatoxin content of different varieties and advanced lines of mustard and rapeseed. *IOSR Journal of Agriculture and Veterinary Science (IOSR-JAVS)* 7 (6), 34–39.
12. **Bhattacharjya, D.K.**, Paul, R.K., Miah, M.N., Ahmed, K.U. 2014. Effect of different saw dust substrates on the growth and yield of oyster mushroom (*Pleurotus ostreatus*). *IOSR Journal of Agriculture and Veterinary Science (IOSR-JAVS)* 7 (2), 38–46.

13. **Bhattacharjya, D.K.**, Pujirahayu, N., Suzuki, T., Katayama, T. 2020. Chemical constituents of whole fruit of *Citrus macroptera* and their antioxidant activity. *Journal of the Forest Biomass Utilization Society* **15** (2), 29–38.
14. **Bhattacharjya, D.K.**, Indrianingsih, A.W., Wulanjati, M.P., Suzuki, T., Katayama, T. 2020. Antibacterial activity of seven species of edible mushrooms, using a resazurin-based 96-well plate microdilution method. *Journal of the Forest Biomass Utilization Society* **15** (2), 39–43.
15. **Bhattacharjya, D.K.**, Suzuki, T., Katagi, A., Katayama, T. 2020. α -Glucosidase inhibition and antioxidant activities of seven edible mushrooms and α -glucosidase inhibitory active compounds from *Boletus edulis*. *Journal of the Forest Biomass Utilization Society* **15** (1), 1–9.
16. Shamsuzzaman, M., **Bhattacharjya, D.K.**, Islam M.S., Hoque, M.E. 2021. Molecular diversity analysis of somaclonal variants of potato (*Solanum tuberosum* L.) by random amplified polymorphic DNA markers. *Annual Research & Review in Biology* **36** (3), 63–76.
17. Indrianingsih, A.W., Wulanjati, M.P., Windarsih, A., **Bhattacharjya, D.K.**, Suzuki, T., Katayama, T. 2021. In vitro studies of antioxidant, antidiabetic, and antibacterial activities of *Theobroma cacao*, *Annona muricata* and *Clitoria ternatea*. *Biocatalysis and Agricultural Biotechnology* **33**, 101995.
18. Chacrabati, R., Khatun, K., Kazal, M.K.H., Moon, R. J., **Bhattacharjya, D.K.**, Hossain, M.A., Goswami, C. 2023. Mushroom Powder Ameliorates the Metabolic Syndromes by Maintaining Glucose and Lipid Homeostasis in High Sugar Diet-fed Mice. *Journal of Science and Technology Research*, **4** (1), 13–24.
19. **Bhattacharjya, D.K.**, Shamsuzzaman, M., Sen, A., Mafi, A.H., Kakon, A.J., Salwa, M., Rob, M.M. 2023. Evaluation of the nutritive value and metal content of prevalent edible mushrooms in Bangladesh. *Research on Crops*. **24** (3), 536–543.
20. Kamruzzaman, M., Islam, H.M.T., Ahmed, S., **Bhattacharjya, D.K.**, Khan, M.S.K., Mahmud, G.I., Almazroui, M., Shahid, S. 2023. Evaluating the Effects of Climate Change on Thermal Bioclimatic Indices in a Tropical Region Using Climate Projections from the Bias-Corrected CMIP6 Model. *Earth. Syst. Environ.* <https://doi.org/10.1007/s41748-023-00360-2>.
21. Rob, M.M., Era, T.N., Pappu M.M.H., Ferdousi, J., Nath, D.D., **Bhattacharjya, D.K.** 2023. Growth, Yield and Adaptability Assessment of Spring Onion (*Allium Fistulosum*) in Sylhet Region. *J. Sylhet Agril. Univ.* **10** (1), 23–29.
22. Kamruzzaman, M., Shahriyar, M., Bhuiyan, A.A., **Bhattacharjya, D.K.**, Islam, M.K., Alam, E. 2024. Energy potential of biomass from rice husks in bangladesh: An experimental study for thermochemical and physical characterization. *Energy Reports*. **11**, 3450–3460. <https://doi.org/10.1016/j.egyr.2024.03.019>.
23. Rob, M.M., Pappu M.M.H., Arifin, M.S., Era, T.N., Akhi, M.Z., **Bhattacharjya, D.K.**, Kayshar, M.S., Jubayer, M.F. 2024. Application and evaluation of plant-based edible active coatings to enhance the shelf-life and quality attributes of Jara lebu (*Citrus medica*). *Discover Food*. **4:26**. <https://doi.org/10.1007/s44187-024-00094-8>.

24. Rob, M.M., Akhter, D., Islam, T., **Bhattacharjya, D.K.**, Khan, M.S.S., Islam, F., Chen, J. 2024. Copper stress in rice: Perception, signaling, bioremediation and future prospects. *Journal of Plant Physiology*. **302**, 154314. <https://doi.org/10.1016/j.jplph.2024.154314>.
25. Sultana, S., Shamsuzzaman, M., Miah, M.A.S., Kakon, A.J., Mafi, A.H., Sen, A., Siddiqui, M.N., **Bhattacharjya, D.K.** 2024. Assessment of proximate composition, mineral element profile and antioxidant properties of the edible oyster mushroom grown in Bangladesh. *Discover Food*. **4, 126**. <https://doi.org/10.1007/s44187-024-00216-2>.
26. Kamruzzaman, M., **Bhattacharjya, D.K.**, Alam, E., Karim, M.R., Nath, B., Hattawi, K.S.A., Islam, M.K. 2024. Thermochemical and physical characterization of agricultural biomass for sustainable energy in Bangladesh. *Energy Reports*. **12**, 5758–5768. <https://doi.org/10.1016/j.egy.2024.11.059>.
27. Windarsih, A., Ahla, M.F., Indrianingsih, A.W., Suratno., Noviana, E., **Bhattacharjya, D. K.**, Sulistyowaty, M.I. 2025. In Vitro Evaluation of Antioxidant, Antibacterial, and Antidiabetes of Billygoat weed Leaves, Stem, and Flower (*Ageratum conyzoides* L.) Concurrent with its Phytochemical Constituents. *Waste Biomass Valor*. <https://doi.org/10.1007/s12649-025-02925-w>
28. Shamsuzzaman, M., **Bhattacharjya, D. K.**, Sultana, S., Kakon, A. J., Miah, M. A. S., Farzana, T., Sen, A., Rob, M. M. 2025. Comparative Biochemical Composition and Antioxidant Properties of Cultivated and Wild Edible Mushroom Species from Bangladesh. *Plant Sci. Today*. **12** (4), 1–11. <https://doi.org/10.14719/pst.7464>

C. Conference Papers:

1. **Bhattacharjya, D.K.**, Suzuki, T., Katayama, T. 2019. α -Glucosidase Inhibitory Activities of Compounds Identified from *Boletus edulis*. 69th Annual Meeting of the Japan Wood Research Society. 14-16 March 2019. Hakodate Arena, Japan. M14-09-1700.
2. **Bhattacharjya, D.K.**, Suzuki, T., Katayama, T. 2020. Chemical constituents and antioxidant activity of the fruits of *Citrus macroptera* and *Garcinia pedunculata*. 70th Annual Meeting of the Japan Wood Research Society. 16-18 March 2020. Tottori University, Japan. M17-P3-03.
3. **Bhattacharjya, D.K.**, Suzuki, T., Katayama, T. 2018. α -Glucosidase inhibition and DPPH free radical-scavenging activities of seven edible mushroom. 30th Meeting of the Chugoku-Shikoku Branch of the Japan Wood Research Society. 13-14 September 2018. Kochi Hall, Kochi, Japan. A03.
4. **Bhattacharjya, D.K.**, Suzuki, T., Katayama, T. 2019. Chemical constituents of the fruits of *Citrus macroptera* and their antioxidant activity. 31th Meeting of the Chugoku-Shikoku Branch of the Japan Wood Research Society. 11-12 September 2019. Shimane Civic Center, Matsue, Japan. A05.

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