

**Curriculum Vitae of  
Hosne Ara Dilzahan**  
Senior Scientific Officer  
Plant Pathology Division  
Bangladesh Rice Research Institute  
Gazipur-1701, Bangladesh  
Mobile: +8801722400703  
E-mail: [dilzahan@yahoo.com](mailto:dilzahan@yahoo.com)



### Personal Information

1. Name : Hosne Ara Dilzahan
2. Father's name : Md. Abdul Hye
3. Mother's name : Feroza Begum
4. Permanent address : Village- Binnadair, Post Office- Baghabari, Upazilla- Shahzadpur, District-Sirajgonj
5. Present address : House no-B/27, Village- Islampur, Post office- Bason, Thana- Kodda bazar, Gazipur city corporation, Gazipur-1746
6. Date of birth : 1 July, 1991
7. Place of birth : Sirajgonj
8. Marital status : Married
9. Nationality : Bangladeshi by birth
10. Religion : Islam
11. Mailing Address : Senior Scientific Officer, Plant Pathology Division, Bangladesh Rice Research Institute, Gazipur-1701, Bangladesh

### 12. Educational Qualification

Degree	Course Duration	University/Board	Passing Year
Master of Science in Agriculture (Major: Applied Life Science, Graduate School of Life and Environmental Sciences) <b>Dissertation:</b> <i>Studies on microbial community and function in soils of paddy rice and chestnuts</i>	2 years	Kyoto Prefectural University, Kyoto, Japan	2020
Master of Science in Agricultural Extension and Information System <b>Dissertation:</b> <i>Involvement of rural women in homestead vegetables production</i>	1.5 years	Sher-e-Bangla Agricultural University, Dhaka	2015
Bachelor of Science in Agriculture	4 years	Sher-e-Bangla Agricultural University, Dhaka	2012
HSC (Science)	2 years	Dhaka	2008
SSC (Science)	2 years	Rajshahi	2006

### 13. Professional Experience

Designation	Duration	Department	Organization
Scientific Officer	26 July 2015 to 14 May 2025	Plant Pathology Division	BRRI
Senior Scientific Officer	14 May 2025 to date	Workshop Machinery and Maintenance Division, Deputation in Plant Pathology Division	BRRI

### 14. Research Experiences

- Isolation, identification and purification of fungal and bacterial pathogen
- Working experience in host-pathogen interaction using light microscope
- Skilled at field experimental techniques
- Identification of bio-control agents for controlling the rice diseases causing pathogens
- Hands-on experience using different software and bioinformatics tools for genome editing techniques
- Have basic experience on molecular biology, molecular markers, genetic polymorphism, basic plant bioinformatics and metagenomics
- Experience in AAS, HPLC, LCMS and ICPOES
- Basic experience on High Throughput Sequencing (Illumina MiSeq), Sequence data analysis on Qiime2, Data processing and statistical analysis

### 15. Training Obtained

Title	Training venue	Sponsoring Agency	Time	Duration
Two-month Rice Production and Communication Training Course	Training Division, BRRI, Gazipur	BRRI	30.08.2015-28.10.2015	2 months
Programming R for Experimental Design and Data Analysis	Agricultural Statistic Division, BRRI, Gazipur	Mujibnagar Project	12-16.02.2017	5 days
Hands-on Training in AAS, HPLC, LCMS and ICPOES Course	Training Division, BRRI, Gazipur	BRRI	21.12.2020-1.01.2021	12 days
Hands-on Training on Molecular Biology Techniques and	Training Division, BRRI, Gazipur	BRRI	16-29.8.2021	14 days

Basics on Bioinformatics				
Hands-on Training in Analytical Instruments and Sampling Procedures	Training Division, BRRI, Gazipur	BRRI	17-31.10.2021	15 days
Hands-on Training in HPLC, LCMS and ICPOES Course	Training Division, BRRI, Gazipur	BRRI	13-27.12.2021	15 days
Nutrition & Food Safety	National Agriculture Training Academy (NATA)	NATA	28.8.2022-01.9.2022	5 days
Bioinformatics for Future Rice	Training Division, BRRI, Gazipur	Program on Agricultural and Rural Transformation for Nutrition, Entrepreneurship, and Resilience in Bangladesh (PARTNER), Project	20.4.2024-03.5.2024	15 days
Use of Biotechnological Tools for Varietal Development	BARC, Dhaka, Bangladesh	Program on Agricultural and Rural Transformation for Nutrition, Entrepreneurship, and Resilience in Bangladesh (PARTNER), Project	12.01.2025-16.01.2025	5 days

**16. Awards and fellowship:** Japanese Government Scholarship (MEXT) 2017, Japan

**17. Scientific Publications:**

- a. **H.A. Dilzahan**, M. Yoshida, M. Umeda, M.A. Calubaquib, N.D. Organo and A.F. Cruz (2020). Biocontrol of soil diseases and soil profile associated with rhizosphere of rice (*Oryza sativa* Subsp. *Japonica*) growing paddy fields in Kansai region, Japan, Acta Agriculturae Scandinavica, Section B — Soil & Plant Science 70 (5): 444-455 DOI:10.1080/09064710.2020.1767192 <https://doi.org/10.1080/09064710.2020.1767192>

- b. **H. A. Dilzahan**, A. Okamura, M. A. Calubaquib, N. D. Organo, M. Kobayashi, and A. F. Cruz (2021). Function and Characterization of Fungal Communities in Chestnut Soils (*Castanea crenata*) of Kansai Region, Japan, *Asian Journal of Soil Science and Plant Nutrition*, 8(1): 7-19. <https://doi.org/10.9734/ajsspn/2021/v8i130123>
- c. A.B.M.M. Islam, J.R. Rahman, S.A.I. Nihad, R. Akter, **H.A. Dilzahan**, M.Z. Islam, M.R. Bhuiyan, M.H. Kabir, M.M. Rashid, M.R. Islam, M.A. Latif and M.A.I. Khan (2017). Evaluation of indigenous rice germplasm for identification of durable bacterial blight (*Xanthomonas oryzae pv. oryzae*) resistance sources in Bangladesh, *The Experiment* 43(3): 2495-2515
- d. M. M. Rashid, M. R. Bhuiyan, **H. A. Dilzahan**, M. A. Hamid, N. Hasan, M. A. I. Khan, M A Latif (2020). Biological Control of Rice Sheath Blight Disease (*Rhizoctonia solani*) Using Bio-pesticides and Bio-control agents. *Bangladesh Rice J.* 24 (1): 47-58  
DOI: 10.3329/brj.v24i1.53239 <https://doi.org/10.3329/brj.v24i1.53239>
- e. N. Jahan, Y. Khan, **H.A. Dilzahan**, R. Akter, M.A.A. Mumin and N.A. Khan (2023). Genetic Diversity in Traditional Local Cultivar of Jhum Rice Genotypes of Bangladesh. *Int. J. Bus. Soc. Sci. Res.* 11(1): 07–12. DOI: <http://doi.org/10.55706/ijbssr11102>
- f. N.D. Organo, J.L.V. Pide, M.A.M. Calubaquib, E.E. Enicola, E.F. Delfin, V.F. Calderon, R. M. Antiola, **H.A. Dilzahan**, and A.F. Cruz (2024). Short-term response of soil microbial community and soil bio-chemical properties to soybean intercropping in a Cassava-based cropping system. *Philipp Agric Scientist* 107(2): 133-143. DOI: <https://doi.org/10.62550/BQ020022>

## 18. Conference Paper:

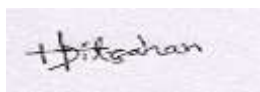
- a. **H.A. Dilzahan**, M. Yoshida, M. Umeda, M.A. Calubaquib, N.D. Organo and A.F. Cruz (2019). Biological control of Bacterial Leaf Blight and Sheath Blight Disease of Rice by Plant-Associated Rhizospheric Bacteria. Paper presented at the 1ST DLSAU International Multidisciplinary Research Conference with theme *Research for the Future: pursuing Evidences of Sustainability* (4th DLSAU Research Congress), January 25-26, 2019 at De La Salle Araneta University, Malabon City, Philippines
- b. **H. A. Dilzahan**, A. Okamura, M. A. Calubaquib, N. D. Organo, M. Kobayashi, and A. F. Cruz (2019). Biological control of Chestnut Diseases: *Phytophthora cambivora* and *Armillaria mellea*. Paper presented at the 1ST DLSAU International Multidisciplinary Research Conference with theme *Research for the Future: pursuing Evidences of Sustainability*. (4th DLSAU Research Congress), January 25-26, 2019 at De La Salle Araneta University, Malabon City, Philippines
- c. MAI Khan, MR Quddus, N Ausraf, MA Bakar, MR Bhuiyan, MM Rashid, MHR Hera, SAI Nihad, **HA Dilzahan**, A Ara, M Ahmed, MS Rahman, MA Latif. (2023). Genome-wide association mapping revealed novel genomic loci for blast resistance in Bangladesh rice landraces. Paper presented in the 6th International Rice Congress, Manila, Philippines held on 16-19 October, 2023

- d. MA Latif, MM Rashid, **HA Dilzahan**, A Ara, A Imran and MAI Khan. (2018). Identification of physiological races of *Xanthomonas oryzae pv oryzae*, evaluation of bacterial blight resistant pyramid lines and development of resistant varieties through marker assisted selection in Bangladesh. Paper presented at the 5th International Rice Congress held at Singapore on October 15-17, 2018

**19. Language proficiency:** Skilled at English (Reading, Writing and Speaking)

**20. Persons to whom a reference may be made**

- a) **Dr. Mohammad Khalequzzaman**, Director General (Routine Charge), Bangladesh Rice Research Institute (BRRI). Tel/Cell: +8801715752595, Email: [dg@brr.gov.bd](mailto:dg@brr.gov.bd), zamanmk64@yahoo.co.uk
- b) **Dr. Moin Us Salam**, Consultant (HRD) of Agency Program Coordination Unit (APCU)-BARC, PARTNER. Tel/Cell: +8801855817938, Email: [moinsalam1@gmail.com](mailto:moinsalam1@gmail.com)



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