

## **Dr. Md. Zakaria Ibne Baki**

Senior Scientific Officer, Agronomy Division  
Bangladesh Rice Research Institute, Gazipur-1701  
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A dedicated and detail-oriented crop scientist with exceptional knowledge in agricultural studies, hands-on experience in plant development research, and expert knowledge and skills in molecular plant analysis. A strong team collaborator with excellent work ethic and an extensive publication record in scientific journals in addition to excellent presentation skills to both technical and non-technical audiences, being able to simplify complex information.

### **Research Interest**

- Soil microbial ecology
- Bioinformatics
- Molecular plant science
- Environmental sustainability
- Plant growth and development
- Soil fertility

### **Key Skills and Competencies**

- DNA extraction
- Polymerase Chain Reaction (PCR)
- Agarose Gel Electrophoresis
- High Throughput Sequencing (Illumina MiSeq)
- Interpersonal skills
- Soil physicochemical analyses
- Plant analysis
- Data processing and statistical analysis (Qiime2, R, MS Excel)
- Teamwork

### **Personal Information**

Name : **Dr. Md. ZakariaIbneBaki**  
Father's Name : M. A. BakiChowdhury  
Mother's Name : Most. HosnearaKhatun  
Spouse's Name : Dr. Sharmin Akter Chowdhury  
Nationality : Bangladeshi (By Birth)  
Designation : Senior Scientific Officer

Institution : Bangladesh Rice Research Institute, Gazipur, Bangladesh  
 Date of Birth : 6<sup>th</sup> November, 1990  
 Religion : Islam (Sunni)  
 Sex : Male  
 Marital Status : Married

### Academic Qualification

Name of Examination	Board/University	Year of Passing	Group/Faculty	GPA/CGPA
S.S.C	Rajshahi	2005	Science	5.00 (Out of 5.00)
H.S.C	Dhaka	2007	Science	5.00 (Out of 5.00)
B.Sc. Ag. (Hons.)	Bangladesh Agricultural University, Mymensingh	2012	Agriculture	3.392 (out of 4.00)
M.S. in Soil Science	Bangladesh Agricultural University, Mymensingh	2014	Soil Science	3.758(out of 4.00)
Doctor of Science	Niigata University, Japan	2022	Agriculture(Soil Science)	A (80-100% Marks)

### Research Experiences

Position	Organization	Period		
		From	To	Total Yr/Mo.
Scientific officer	Bangladesh Rice Research Institute, Bangladesh	10 <sup>th</sup> July, 2013	July 2019	6 years
Senior Scientific officer	Bangladesh Rice Research Institute, Bangladesh	July 2019	To date	

### Training

Organization	Year	Duration (Days)	Name of the training program
Graduate Training Institute, Mymensingh	2013	15	Basics of MS Office
Bangladesh Agricultural Research Institute, Gazipur.	2013	04	Capacity Building Training on Agricultural Remote Sensing.
Bangladesh Rice Research Institute, Gazipur	2014	60	Two-month rice production training
National Agriculture Training Academy (NATA)	2016	03	Training on Disaster Management
Bangladesh Rice Research Institute, Gazipur	2017	05	R-programming for experimental design and data analysis.
Bangladesh Rice Research Institute, Gazipur	2017	03	Experimental design and data analysis training course.

**List of Publications:** (Authors name, year, title, journal name, vol, issue, page no)

1. **Md Zakaria Ibne Baki**, Kazuki Suzuki, Kohei Takahashi, Sharmin Akter Chowdhury, Rasit Asiloglu, Naoki Harada. 2021. Molecular genetic characterization of arbuscular mycorrhizal fungi associated with upland rice in Bangladesh. *Rhizosphere*. 18(2021) 100357.
2. Sharmin Akter Chowdhury, Aya Kaneko, **Md Zakaria Ibne Baki**, Chikako Takasugi, Natsumi Wada, Rasit Asiloglu, Naoki Harada, Kazuki Suzuki. 2022. Impact of the chemical composition of applied organic materials on bacterial and archaeal community compositions in paddy soil. *Biology and Fertility of Soils* (2022) 58:135–148.
3. Md. Mamunur Rashid, Majharul Islam, **Md. Zakaria Ibne Baki**, Md. Maksudul Haque, M. Mazibur Rahman, Abdul Kader, 2018. Decomposition Pattern of Bio-Slurry in two Contrasting Soils of Bangladesh. *The Saudi Journal of Life Sciences (SJLS)*, 3(2): 165-175.
4. Lutfun Nahar, Rakiba Shultana, Khairul Alam Bhuiyan, **Md. Zakaria Ibne Baki** and Romana Akter, 2018. Assessment of different crop residues and herbicide on weed control efficiency in Transplanted Aman rice. *International Journal of Applied Research*, 3(3) 7-13.
5. MKA Bhuiyan, Md. Mostofa Mahbub, Lutfun Nahar, **Md. Zakaria Ibne Baki**, 2017. Effect of Nitrogen Levels and Weed Management on Yield Performance of BRRI Hybrid dhan3 Under AWD Irrigation System. *Bangladesh Agron. J.* 201 7, 20 (1): 13 – 24.
6. **M Z I Baki**, M A Matin, M F Jubayer, T K Roy and A Wadud (2015). Effect of Depth of Tillage and Manuring on Soil Physical Properties, Water Conservation, and Yield of Aman Rice (BRRI DHAN49) in Bangladesh. *International Journal of Information Research and Review*, 2(01): 274-283.
7. **M Z I Baki**, M A Hashem and M R Islam (2015). Effects of reduced rates of fertilizers on N, P, K, S, and Zn contents and uptakes in BRRI dhan29. *International Journal of Natural and Social Sciences*, 2(1): 66-71.
8. **M Z I Baki**, R Khatun, A Khatun, S Akter, P Hazra and A Sultana (2015). Impact of flood hazards on human life and environment in some selected upazilas of Sirajganj district. *International Journal of Natural and Social Sciences*, 2(1): 102-106.

9. **Md. Zakaria Ibne Baki**, Md. Abul Hashem and Md. Rafiqul Islam (2015). Effects of Reduced Rates of N, P, K, S and Zn on the Growth and Yield of BRRIdhan29. *American-Eurasian J. Agric. & Environ. Sci.*, 15 (4): 518-522.
10. **M. Z. I. Baki**, M.A. Matin, Ruhul Amin, Fahad Jubayer, Kaniz Farzana and Maksudul Haque (2015). Impact of Tillage Intensity, Fertilizer and Manuring on Soil Physical Properties. *Advances in Biological Research* 9 (2): 75-81.
11. **M. Z. I. Baki**, Md. Maksudul Haque, Ruhul Amin, Dr. M. Abdul Matin (2015). Impact of tillage intensity, fertilizer and manuring on yield contributing characters of rice. *Scientia Agriculturae*, 10 (1): 22-30.
12. Bodrun Nessa, Moin U. Salam, A.H.M. Mahfuzul Haque, Jiban K. Biswas, M. Abdul Latif, M. Ansar Ali, Tahmid H. Ansari, Montasir Ahmed, Nargis Parvin, **M. Zakaria Ibne Baki**, Subrima Islam, M. Sirajul Islam and Jean Galloway (2015). Rice False Smut Disease at Different Flowering Times. *Bangladesh Rice J.* 19(2): 29-35.
13. Sarmin Sultana, M. A. Hashem, T. S. Haque, **Md. Z. I. Baki**, Md. Maksudul Haque (2015). Optimization of Nitrogen Dose for Yield Maximization of BRRIdhan49. *American Journal of Biology and Life Sciences*, 3(3): 58-64.
14. Sultana A., M.S. Hossen, M.R. Hossain, M. Mustafa, P. Hazra and **M. Z. I. Baki**, 2015. Environmental analysis of urban and peri-urban agriculture of Jessore district. *International Journal of Applied Research*, 1 (1): 16-27.

### Academic Conferences

1. 7<sup>th</sup> International Symposium on Strategies for Sustainability in Food Production, Agriculture, and Environment (ISFAE), Niigata, Japan (2021). Factors affecting AMF community compositions associated with non-AMF host plant in saline regime by high throughput sequencing. **Md Zakaria Ibne Baki**, Kazuki Suzuki, Naoki Harada.
2. Kariwa Village Advanced Agro-Biotechnological Research Center (KAAB) International Symposium, Niigata, Japan (2021). Molecular genetic characterization of arbuscular mycorrhizal fungi associated with upland rice in Bangladesh. **Baki M. Z. I.**, Suzuki K, Takahashi K, Chowdhury S. A, Asiloglu R, and Harada N.
3. 10<sup>th</sup> International Soil Congress, Ankara, Turkey (2019). Effects of nitrogen application and weed management on rice yield under AWD irrigation system. **Md Zakaria Ibne Baki**, MKA Bhuiyan, Kazuki Suzuki, Naoki Harada.

## Language Proficiency:

Good communication skill in Bengali, English and Japanese.

## References

### Dr. Naoki Harada

Professor

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### Dr. M. A. Hashem

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I hereby declare that the above statements are correct and complete to the best of my knowledge.



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(Dr. Md. Zakaria Ibne Baki)