

# Curriculum vitae

Md. Asif Rahman  
Scientific Officer  
Bangladesh Rice Research Institute  
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Mailing address: : Scientific Officer, BRRRI Regional Station, Satkhira, Bangladesh.  
Father's name : Dr. Md. Ansar Ali  
Mother's name : Mst. Sharmin Sultana  
Permanent address : Kushodanga, Bhanderpol, Koyra, Khulna.  
Date of birth : 30 December, 1992  
Nationality : Bangladeshi  
Gender : Male  
Blood group : B+  
Religion : Islam  
Marital status : Married  
Field of specialization: : Plant Breeding, Molecular Rice Breeding (QTL pyramiding and marker assisted backcrossing), Molecular Genetics, Salt Stress Physiology.  
Field of interest: : QTL mapping, Bioinformatics application in rice research, CRISPR- CAS9 genome editing in rice, Gene silencing, Genetic transformation

## Education qualifications :

| Name of the degree             | Board/ University   | Year of passing | CGPA            |
|--------------------------------|---|-----------------|-----------------|
| MS (Genetics & Plant Breeding) | Bangabandhu Sheikh Mujibur Rahman Agricultural University | 2016            | 3.81 (out of 4) |
| BS (Ag.)                       | Bangabandhu Sheikh Mujibur Rahman Agricultural University | 2013            | 3.72 (out of 4) |
| HSC                            | Govt. City College, Rajshahi                              | 2009            | 5.00 (out of 5) |
| SSC                            | Maskatadighi High School, Rajshahi                        | 2007            | 5.00 (out of 5) |

## Dissertations:

Master of Science: Introgression of *Saltol* QTL into genetic background of BRRRI dhan49 through marker-assisted breeding (Research Advisor: Dr. Ruhul Amin Sarker, SSO, BRRRI)

## Professional carrier:

| Sl. No. | Designation                            | Division        | Institute | Duration             |
|---------|--|-----------------|-----------|----------------------|
| 01.     | Scientific Officer                     | Plant Breeding  | BRRRI     | From 2020 to present |
| 02.     | Scientific Officer                     | Entomology      | BRRRI     | 2.5 years            |
| 03.     | Scientific Officer (TRB-BRRRI Project) | Plant Pathology | BRRRI     | 7 months             |
| 04.     | Scientific Officer (TRB-BRRRI Project) | Plant breeding  | BRRRI     | 9 months             |
|         | Research Associate                     | Plant breeding  | BRRRI     | 2.5 years            |

**Professional/Research (Work) experience:**

1. As Scientific Officer, Plant Breeding Division : Development of rice variety through conventional and molecular Breeding. Screening of advanced breeding material against salinity. Conducting different field trials.
2. As Scientific Officer, Entomology division : Development of rice variety through pyramiding of bph3 and bph17 into the genetic background of BRRI dhan58, development of mapping population for QTL mapping responsible for gall midge resistance in local rice germplasms.
3. As Scientific Officer (TRB-BRRI Project), Plant Pathology division : Development of rice breeding lines for bacterial blight resistance through pyramiding of *Xa4*, *Xa13* and *Xa21* in the genetic background of BRRI dhan28 and BRRI Dhan29 through MAS.
4. As Scientific Officer (TRB-BRRI Project), Plant breeding division : Development of rice breeding lines for salt tolerance through both conventional and molecular approaches. Insect resistance Rice breeding (BPH, Gall midge). Field Rapid generation advances for rapid genetic gain.
5. As Research Associate : Development of improved salt tolerance in BRRI dhan49 through introgression of *Saltol* QTL supported by marker-aided backcrossing. Screening advanced breeding lines for salinity tolerance at the seedling stage in the physiology division.

**Training:**

| Title   | From         | To           | Duration | Venue  | Remarks                |
|---|--------------|--------------|----------|--|------------------------|
| Advanced training in biotechnology  | 20 Nov, 2018 | 29 Nov, 2018 | 10 days  | National Institute of Biotechnology (NIB)              | Successfully completed |
| Design and analysis of breeding trials using plant breeding tools (PBTools) | 15 Jan, 2018 | 18 Jan, 2018 | 04 days  | BRRI Organized by IRRI                                 | Successfully completed |
| Application of molecular biology in rice breeding                           | June 8, 2014 | July 3, 2014 | 26 days  | BRRI Organized by Kyunpook National University (Korea) | Successfully completed |

**List of publications:**

1. Moni, Z. R., Ali, M. A., Alam, M. S., Rahman, M. A., Bhuiyan, M. R., Mian, M. S., ... & Khan, M. A. I. (2016). Morphological and genetical variability among *Rhizoctonia solani* isolates causing sheath blight disease of rice. *Rice Science*, 23(1), 42-50.
2. Islam, A.S., Rana, M.S., Rahman, M.M., Mian, M.J.A., Rahman, M.M., **Rahman, M.A.** and Naher, N., 2016. Growth, yield and nutrient uptake capacity of rice under different sulphur levels. *Turkish Journal of Agriculture-Food Science and Technology*, 4(7), pp.557-565.
3. Rahman, M. A., Quddus, M. R., Jahan, N., Rahman, M. A., Sarker, M. R. A., Hossain, H., & Iftekharuddaula, K. M. (2019). Field rapid generation advance: An effective technique for industrial scale rice breeding program. *The Experiment*, 47(2), 2659-2670.
4. Islam, A. K. M. S., Nath, U. K., Rai, P. K., Rahman, M. M., Haque, M. A., & Rahman, M. A.

- (2016). Genetic study and selection of soybean lines for higher yield. *Intl J Biosci*, 8(2), 209-217.
5. Rai, P. K., Sarker, U. K., Islam, A. K. S., Rahman, M. A., & Hasan, M. (2016). Genetic study and selection in F4 generation of rice (*Oryza sativa* L.). *Journal of Bioscience and Agriculture Research*, 9(01), 768-774.
  6. Islam, A. K. M. S., Rahman, M. A., & Haque, M. M. (2016). Nutrient uptake capacity of hybrid rice under different doses of facial sludge application. *Haya: Saudi Journal of Life Science*, 1(3), 113-116.
  7. Rahman, M. A., Islam, M. R., Islam, A. S., Akter, N., Munna, M. A. U. R., & Rana, M. M. Genetic analyses of advanced breeding lines of rice (*Oryza sativa* L.) based on morphological traits. *Journal of Bioscience and Agriculture Research*, 30(02), 2559-2569.
  8. Rahman, M., Mamun, M., Islam, M., Quddus, M., Munna, N., Azim, M., Galib, M., Iftekharuddaula, K., & Syed, M. (2024). Identifying key determinants of rice yield potential through multiple statistical techniques. *Journal of Bangladesh Agricultural University*, 22(1), 17. <https://doi.org/10.5455/JBAU.174200>

#### **Membership in professional society:**

1. Krishibid Institution Bangladesh (KIB).
2. Bangabandhu Krishibid Parishad.
3. Bangladesh Bioinformatics and Computational Biology Association.

#### **References:**

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