

# Curriculum Vitae



## Dr. Md Shafikur Rahman

📍 Organic Plant Breeding and Agrobiodiversity,  
Faculty of Organic Agricultural Science,  
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Sex: Male | Date of birth: 31/12/1982 | Nationality: Bangladeshi

### PROFESSIONAL BACKGROUND

Mr. Rahman is an interdisciplinary researcher, plant breeder, and plant biotechnologist. Currently, he obtained a doctoral degree in agricultural science from the University of Kassel, Germany. His recent research activities are mostly focused on fieldworks, researching various aspects of natural selection of Lentils (*Lens culinaris*) as well as developing novel approaches and strategies for adapting the genotypes to the new environments. In the course of these activities, he acquired knowledge regarding the conservation and management of agricultural commodities, including cereals, oils, and pulses.

### TRAINED SKILLS

- **Professional expertise:** Organic agriculture, organic plant breeding, field works, natural selection of elite genotypes, plant cell and tissue culture techniques, DNA fingerprinting (DNA isolation, quantification, PCR, Gel electrophoresis, genome sequence analysis).
- **Statistical analysis:** RStudio, PopGen, DNAfrag analysis, GenALEx, PowerMarker, and Arlequin along with several online bioinformatics pipelines.
- **Language skills:** **English** (full professional proficiency), German (elementary), Italian (elementary), **Hindi** (elementary), **Urdu** (elementary), Arabic (elementary), **Bengali** (Native or bilingual).

### ACADEMIC QUALIFICATIONS

04.2021 to 08.2025: **Doctor of Agricultural Science (Dr. agr.)**, University of Kassel, Germany.

09.2012 to 08.2014: **International Master in Horticultural Sciences (IMAS)**, Result: 105(1) (GPA, Italy), University of Bologna, Italy; Technical University of Munich, Germany; University of Natural Resources & Applied Life Sciences, Austria

01.2006 to 06.2007: **M.Sc. in Genetics and Plant Breeding**, Result: 3.875 out of 4.00 (GPA, Bangladesh), Bangladesh Agricultural University, Mymensingh, Bangladesh.

01.2001 to 12.2005: **B.Sc. in Agricultural Science**, Result: First class, Bangladesh Agricultural University, Mymensingh, Bangladesh.

### TEACHING & RESEARCH EXPERIENCES

05.2010 to today: **Faculty member & student supervisor**, Department of Plant Biotechnology, Faculty of Agriculture, Patuakhali Science and Technology University, Patuakhali 8602, Bangladesh.

04.2021 to 08.2025: **Ph.D. research student**, "LinSel: Selection of lentil (*Lens culinaris*) genotypes suited for sustainable cropping systems", Funded by the German Federal Ministry, Project partners include the Institute of Crop Science, University of Hohenheim, along with the departments of General Crop Production and Quality of Plant Products, the Leibniz Institute of Plant Genetics and Crop Plant Research, Genebank Department, the Keyserlingk Institute, and the Department of Organic Plant Breeding and Agrobiodiversity, University of Kassel.

05.2010 to 12.2020: **Research investigator**, Morphological and Molecular Characterization of salt tolerant Rice, Jute, and Brassica, Department of Plant Biotechnology, Faculty of Agriculture, Patuakhali Science and Technology University, Bangladesh.

06.2005 to 09.2009: **Research associate**, Morphological and Molecular Characterization and Documentation of Released Crop Varieties of Bangladesh, Seed Wing, Ministry of Agriculture, Government of the People's Republic of Bangladesh.

**Thesis Publications:**

1. Performance and adaptability of diverse populations of lentils (*Lens culinaris* Medikus) <https://doi.org/10.17170/kobra-2025092311471>
2. Characterization of Malonyltransferase of *Arabidopsis thaliana*.
3. Morphomolecular Genetic Study of Some Selected Groundnut Genotypes with Microsatellite Marker.

**Journal Publications:**

1. **MS Rahman**, MKH Sohag, L Rahman, SMM Azam, K Khatun 2020: Heterosis in Hybrids Between Local and High Yielding Rice (*Oryza sativa* L.) Varieties of Bangladesh. International Journal of Innovative Research, 5(2):17-24.
2. **MS Rahman**, MKH Sohag, L Rahman, MS Alam, UK Nath, MK Bashar 2020: Genetic Fingerprinting for the Protection of Local Rice (*Oryza sativa* L.) Cultivars of Bangladesh. Journal of Advance Biotechnology and Experimental Therapeutics 3(3): 182-193.
3. **MS Rahman** 2020: A General Introduction of Propagation and Micropropagation Techniques of Macadamia Nut (*Macadamia spp.*). Journal of Advance Biotechnology and Experimental Therapeutics 3(2): 102-108.
4. K Khatun, **MS Rahman**, B Ahmed, MR Islam, MZ Hassan and MHJ Biplob 2019: Growth and Yield Performance of Grasspea under Different Methods of Sowing and Pre-Emergence Irrigation. Advances in Biological Research, © IDOSI Publications, 13 (3): 89-94.
5. SMM Azam, MS Islam, **MS Rahman**, P Shahanaz and SMS Alam 2019: DNA fingerprinting and molecular characterization of Brassica cultivars using RAPD markers. Research Journal of Biotechnology, 14 (8): 40-44.
6. **MS Rahman**, SMM Azam, MS Islam, P Shahanaz and SMS Alam 2019: Molecular Characterization of Brassica Cultivars through RAPD Markers. United International Journal for Research & Technology (UIJRT), 1(3):41-45.
7. **MS Rahman**, MK Alam, QKJ Mustakima, MKH Sohag, NU Ahmed, UK Nath, MS Alam and L Rahman 2016: SSR Based Molecular Diversity Study in Local Rice (*Oryza sativa* L.) Genotypes of Bangladesh. International Journal of Innovative Research, 1(2):17-24.
8. MH Rashid, **MS Rahman**, SC Nath, SSRM Mahe, A Sorwar and MT Ahmed 2016: Use of RAPD Markers to Analyze Genetic Variability of Introgressed Brassica Lines. The Agriculturists 14(1): 122-133.
9. **MS Rahman**, MKH Sohag, L Rahman 2014: Distinctness of 110 Rice (*Oryza sativa* L.) Varieties of Bangladesh Using Morphological Traits. Journal of Bangladesh Agricultural University 12(1): 29-36.
10. **MS Rahman**, MKH Sohag and L Rahman 2010: Microsatellite Based DNA Fingerprinting of 28 Local Rice (*Oryza sativa* L.) Varieties of Bangladesh. Journal of the Bangladesh Agricultural University. 8(1): 7-17.
11. **MS Rahman**, MS Alam 2008: Morphomolecular Genetic Study of Some Selected Groundnut Genotypes with Microsatellite Marker. Journal of the Bangladesh Agricultural University 6(1): 1-9.
12. MS Islam, **MS Rahman**, MS Alam, MN Islam 2008: Isolation and Molecular Characterization of 23 Groundnut (*Arachis hypogaea* L.) Genotypes Using Microsatellite Markers. Bangladesh Journal of Agricultural Science 35(1): 67-75.
13. **MS Rahman**, MS Islam, MN Islam, L Rahman 2008: Morphological Traits of Distinctness of 91 rice (*Oryza sativa* L.) Varieties/Cultivars/Landraces of Bangladesh. Bangladesh Journal of Agricultural Science 35 (2):189-199.
14. L Rahman, MN Islam, **MS Rahman**, MS Islam, MS Alam, MK Bashar 2008: Characterization of 94 Rice (*Oryza sativa* L.) Varieties of BANGLADESH Based on Microsatellite Loci. Bangladesh Journal of Agricultural Science 35(1): 97-112.
15. **MS Rahman**, MS Alam 2007: Genetic Diversity Study of 10 Groundnut (*Arachis hypogaea* L.) Genotypes Using Microsatellite Marker. Journal of the Bangladesh Society of Agricultural Science & Technology 4(3&4): 165-168.

**Published Reports:** \*\*\*ISBN: 984-300-001120-8

1. L Rahman, MR Molla, S Sultana, MN Islam, NU Ahmed, **MS Rahman**, M Nazim-ud-Dowla and MS Rahman 2007. Plant Varieties of Bangladesh: Morphological and Molecular Characterization. Published by Seed Wing, Ministry of Agriculture, Government of the Peoples' Republic of Bangladesh, Vol. 1, 486 p.
2. L Rahman, MN Islam, **MS Rahman**, MS Islam, MS Alam, L Hassan, MK Bashar 2008: Plant Varieties of Bangladesh: Morphological and Molecular Characterization. Published by Seed Wing, Ministry of Agriculture (MoA), Government of the People's Republic of Bangladesh, Vol. 2, 300 p.
3. L Rahman, MS Alam, L Hassan, MS Alam, MK Bashar, MN Islam, **MS Rahman**, MS Islam, MR Molla, S Sultana, NU Ahmed, MS Rahman, N Dowla 2008: Rice Varieties of Bangladesh: Morphological and Molecular

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- Characterization. Published by Seed Wing, Ministry of Agriculture, Government of the People's Republic of Bangladesh. 80 p.
4. L Rahman, **MS Rahman**, MKH Sohag, MS Alam, MK Bashir 2009: Plant Varieties of Bangladesh: Morphological and Molecular Characterization. Published by Seed Wing, Ministry of Agriculture, Government of the People's Republic of Bangladesh, Vol. 3, 394 p.
  5. Rahman *et al.*, 2010: Plant Varieties of Bangladesh: Morphological and Molecular Characterization. Published by Seed Wing, Ministry of Agriculture, Government of the People's Republic of Bangladesh, Vol. 4, 550 p.

### EXCURSION & FIELD TRIP

**Bangladesh:** Bangladesh Rice Research Institute (BRRI), Bangladesh Agricultural Research Institute (BARI), Bangladesh Jute Research Institute (BJRI), Cotton Research Centre, Regional Agricultural Research Station (RARS), Soil Resource Development Institute in Bangladesh (SRDI) etc.

**Abroad:** Genebank Leibniz Institut-IPK (Germany), Chicoree Boss (Germany), SCHERZER GEMÜSE (Germany), Spargelhof Siglechner (Germany), Marktgemeinschaft Bodenseeobst (Germany), University of Bologna Experimental Farm, (Italy), Agri-Food and Industrial laboratory – Unibo (Italy), Winery & Viticulture Wieselthaler (Austria), Stefan Weingut Alphart – Winery (Austria), etc.

### FUNDING and SCHOLARSHIP

- 2010 (One year): Research funds from the University Grants Commission (UGS), Bangladesh
- 2012 (Two years): MSc Scholarship from the ERASMUSMUNDUS of European commission
- 2012 (Two years): MSc Scholarship of Plant Biotechnology, Wageningen University & Research, Netherlands
- 2016 (One year): Research grant, Ministry of Science and Technology, Government of the People's Republic of Bangladesh
- 2019 (Two years): Research grant, Patuakhali Science and Technology University, Bangladesh
- 2020 (Four years): Science and Technology's PhD Fellowship for University of Kassel (Germany), Ministry of Science and Technology, Government of the People's Republic of Bangladesh

### ACADEMIC REFEREES

#### Referee 1

**Prof. Dr. Gunter Backes**

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#### Referee 2

**Dr. Francesco Spinelli**

Professor & Coordinator (International Master  
in Horticultural Science),  
University of Bologna (UniBo),  
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#### Declarations:

I do hereby declare that all the above information is true to the best of my knowledge.

Date: 28.10.2025

Place: Witzenhausen, Germany.

  
Md Shafikur Rahman  
Signature