Curriculum Vitae

Dr. Jamilur Rahman
Professor
Dept. of Genetics and Plant Breeding
Sher-e-Bangla Agricultural University
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1. Present position & Address:

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2. Academic Qualifications:

Subject	Degree	University	Class	Year
Plant Molecular Ecology	Post Doc	**Max Planck Institute, Germany**	Awarded	2015
Plant Molecular Biology	Ph. D.	**ICGEB*, JNU New Delhi, India**	Awarded	2010
Genetics and Plant Breeding	M. S.	**Bangladesh Agricultural University, Bangladesh**	1st Class	2002
Agriculture	B. Sc. (Ag.)	**Sher-e-Bangla Agricultural University, Bangladesh**	1st Class	2001
Science	H.S.C.	Govt. Rajendra College, Faridpur	1st Division	1992
Science	S.S.C.	Khalia Raja Ram Institute, Madaripur	1st Division	1990

***ICGEB= International Centre for Genetic Engineering and Biotechnology**

3. Professional Experience (list in order of last assignment first)

Position	Institute	Country	From	To
Professor (2nd Grade)	Sher-e-Bangla Agricultural University, Dhaka	Bangladesh	**November, 2018**	**Till date**
Director, ICT Cell, SAU	Sher-e-Bangla Agricultural University, Dhaka	Bangladesh	September, 2024	Till date
Chairman, Dept. of Genetics and Plant Breeding	Sher-e-Bangla Agricultural University, Dhaka	Bangladesh	March, 2017	March, 2019
Professor (3rd Grade)	Sher-e-Bangla Agricultural University, Dhaka	Bangladesh	November, 2014	November, 2018
Research Scientist	Max Planck Institute for Chemical Ecology, Jena, Germany	Germany	May, 2013	August, 2015
Associate Professor	Sher-e-Bangla Agricultural University, Dhaka	Bangladesh	November, 2010	November, 2014
Assistant Professor	Sher-e-Bangla Agricultural University, Dhaka	Bangladesh	September, 2006	November, 2010
Research Associate	Dept. of Biochemistry and Molecular Biology Dhaka University, Dhaka	Bangladesh	February, 1011	July, 20211
Ph.D. Research Fellow	ICGEB, JNU New Delhi, India	New Delhi, India	August, 2006	August, 2010
Lecturer	Sher-e-Bangla Agricultural University, Dhaka	Bangladesh	November, 2003	August 2006
Lecturer (ad-hoc)	Sher-e-Bangla Agricultural University, Dhaka	Bangladesh	March, 2003	November, 2003
Research Assistant	Dept. of Genetics and Plant Breeding, Bangladesh Agricultural University, Dhaka	Mymensingh	June, 2001	January, 2003

4. List of Completed Research Projects of as Principal Investigator (PI)

Project Title	Duration	Funding Agency
Development of canola grade *brassica juncea* mustard variety to meet the edible oil security and climate change challenges in Bangladesh	2020-23	BAS-USDA
Characterization of multi-parent advanced generation intercross (MAGIC) populations of canola grade mustard in *Brassica rapa*	2022-23	Ministry of Science and Technology, GoB
Characterization of BC1F2 and F3 populations *Brassica rapa* and selection of short duration yield potential populations	2023-24	Sher-e-Bangla Agricultural University Research System
Screening of world collection germplasm of superfood crop Quinoa (*Chenopodium quinoa*) to breed climate resilient variety(ies) of the crop for unfavorable ecosystem of Bangladesh	2022-23	University Grants Commission (UGC) of Bangladesh
Evaluation of canola grade, yield potential, and short duration lines of BC1F1, and F2 populations of *Brassica rapa*	2022-23	Sher-e-Bangla Agricultural University Research System
Selection of Genetically Potential Breeding Lines derived from the Multi-Parent Advanced Generation Inter-Cross Populations in *Brassica rapa*	2022-23	Ministry of Science and Technology, GoB
Introgression of low erucic acid trait into four popular brassica rapa cultivars through backcross breeding	2021-22	Sher-e-Bangla Agricultural University Research System
Evaluation of Genetically Potential F_3 Populations to Develop Early Maturity and High Yielding Tomato (*Lycopersicon esculentum* L.) Variety"	2021-22	Ministry of Science and Technology, GoB
"Evaluation of Promising F_1 Hybrid Lines Derived from 6x6 Diallel Cross for Selection of Early Maturity and Superior Variety of Tomato (*Lycopersicon esculentum* L.)"	2021-22	Ministry of Science and Technology, GoB
"Cloning, sequencing and bioinformatic analysis of erucic acid regulatory Fatty Acid Elongase (*FAE*) gene for genome editing of mustard (*Brassica rapa* L.) using CRISPR/CAS9"	2018-19	Ministry of Science and Technology, GoB
"Varietal Improvement of Jute by Overcoming Inter-specific Hybridization Incompatibility		Ministry of Education,

Barrier among *Corchorus* species through Horizontal Genome Transfer"	2016-19	BANBEIS, GoB
"Development of low erucic acid mustard (*Brassica rapa* L.) elite and promising lines through diallel crossing among selected mustard varieties in Bangladesh"	2017-18	Sher-e-Bangla Agricultural University Research System
"Development of Short-stature and Yield Potential Inbred Lines to Breed White Maize (*Zea mays* L.) Hybrid Variety in Bangladesh"	2017-18	University Grants Commission (UGC) of Bangladesh
"Genetic evolution of erucic acid and its regulatory fatty acid elongase gene in *Brassica rapa* for developing low EA containing mustard variety in Bangladesh"	2017-18	Ministry of Science and Technology, GoB
"Genetic Evolution of Phytohaemagglutinin (PHA) in Different Genotypes of Kidney Bean (*Phaseolus vulgaris* L.)"	2016-17	Sher-e-Bangla Agricultural University Research System
"Collection and screening for salinity stress tolerant rice genotypes using combination of morpho-physiological and molecular markers"	2012-13	Sher-e-Bangla Agricultural University Research System
"Development of callus induction and regeneration protocol from different explants of some popular Aus and Aman rice varieties in Bangladesh for further *Agrobacterium* mediated genetic transformation of drought tolerant and submergence tolerant genes"	2011-12	Ministry of Science and Technology, GoB

5. Awards (Selected)

i. **Young Scientist Award** - 2019**.** Plant Breeding and Genetics Society of Bangladesh (**PBGSB**), Bangladesh.

ii. **Maulana Abdul Hamid Khan Bhashani Award** - 2017. Bangladesh Unnayan Sangsad (**BUS**).

iii. **Post-Doctoral Fellow**. 2013. Max Planck Institute for Chemical Ecology, Jena, **Germany**.

iv. **Pre-doctoral Fellow** 2006. International Centre for Genetic Engineering and Biotechnology (ICGEB), **Italy**

6. List of Technology (crop varieties) developed

i. **Rahman J.** 2023 "**SAU Canola 1**. Canola grade *Brassica juncea* variety. Registration: 03(01)-41/23. Ministry of Agriculture. Government of the People's Republic of Bangladesh.

ii. **Rahman J.** and Ullah M.J. 2020 "**SAU White Maize-1**" White maize variety. Registration: 05(04)-469/20. Ministry of Agriculture. Government of the People's Republic of Bangladesh.

iii. **Rahman J.** and Ullah M.J. 2020 "**SAU White Maize-2**" White maize variety. Registration: 05(04)-470/20. Ministry of Agriculture. Government of the People's Republic of Bangladesh.

iv. **Rahman J.** and Ullah M.J. 2020 "**SAU White Maize-3**" White maize variety. Registration: 05(04)-471/20. Ministry of Agriculture. Government of the People's Republic of Bangladesh.

v. **Rahman J.** 2018 "**SAU Maize-3 (Purple maize)**" Purple maize variety. Registration: 05(04)-289/18. Ministry of Agriculture. Government of the People's Republic of Bangladesh.

7. Publications

(Total **56** in peer-reviewed impact factor indexed journals, ***** indicates corresponding author)

56. Hossain M. S., Rahman M. Z., Mozumder S. N., **Rahman. J***. (2024). Nutritional composition, fatty acids, bioactive compounds, and antioxidant activity of *Nigella sativ*a seed grown in Bangladesh. *Discover Food.* 4:52.

55. Gain N., Gain, Johora F. T, **Rahman J***. (2024). Improvement in yield attributes and fatty acids composition in the derivative hybrids compared to their respective parents in Indian mustard (*Brassica juncea* L.). *Heliyon*. 10 (11):E31977

54. Siddique, A.B., Parveen, S., Rahman, M.Z. **Rahman, J***. (2024) Revisiting plant stress memory: mechanisms and contribution to stress adaptation. *Physiology and Molecular Biology of Plants*. 30:349-367.

53. Shelly, N.J., Bhuiyan, M.S.R., Mahmud, F., **Rahman, J**., Alam, M.A. (2024). Characterization of Some *Brassica Rapa* and their F1 genotypes for morphological traits. *SAARC J. Agric*., 22(1): 139-152.

52. Siddique, A.B., Rahman, M.Z., Gain, N., **Rahman, J***. (2024). Genetic improvement of rural landraces through mutation research. In: Kumar, N. (eds) *Plant Mutagenesis. Sustainable Landscape Planning and Natural Resources Management*. Springer, Cham.

51. Rahman, M.M., Ahmed, M.I., Khan, M.S.U., Kobir, M., Akter, M.B. and **Rahman, J**. Comparative study of late maturity higher yielding mustard varieties in Satkhira. (2024). *Asian Journal of Crop, Soil Science and Plant Nutrition*, 09(02), 369-376.

50. Mondal, S., Johora, F.T, Roy, G, **Rahman, J***. (2023). Genotype and environment interactions of yield contributing characters of field mustard (*Brassica rapa* L.). *Bangladesh J. of Botany*, 52(4), 1055–1065.

49. Fatema, R., Shompa, B. N., **Rahman, J***. (2023). Correlation and path coefficient analysis of different growth and yield components of kidney bean (*Phaseolus vulgaris* L.). *Bangladesh J. of Agriculture*, 48(2), 39–53.

48. Shelly, N. J., Bhuiyan, M. S. R., Mahmud, F., **Rahman, J**., Alam, M. A. (2023). Variability and heritability study in some selected *Brassica rapa* L. genotypes. *Bangladesh J. of Agriculture*, 48(2), 106–118.

47. Shelly NJ, Bhuiyan MSR, **Rahman J**, Zamil SS. and Sumon MM. (2023). Comparative study on the oil content and fatty acids profile among some *Brassica rapa* L. genotypes. *Intl. J. of Bio-resource & Stress Management*, 2023; 14(8), 1175-1185.

46. Rahman MZ, Md. Hasan T, and **Rahman J***. (2023). Kompetitive Allele-Specific PCR (KASP): An efficient high-throughput genotyping platform and its applications in crop variety development. Kumar N. (ed.), *Molecular Marker Techniques*. Springer Nature.

45. Shelly NJ, Bhuiyan MSR, Mahmud J, **Rahman J**. 2023. Crossability study among selected *Brassica rapa* for developing short duration and high yielding genotypes. *J. Expt. Biosci*.: 14 (2): 45-52.

44. Subrin S, Islam MFA, Satter MA, **Rahman J**, Zannat MS, Chowdhury MF4 and Hossain A. (2022). Physico-functional and nutritional properties of pigmented and non-pigmented maize available in Bangladesh. *Bangladesh J. Bot.* 51(3): 589-596.

43. Shelly NJ, Bhuiyan MSR, Mahmud J, **Rahman J,** Alam M. A. 2022. Correlation coefficient and path coefficient analysis in different *Brassica rapa* genotypes. *J. of Sher-e-Bangla Agric. Univ.* 13(1&2): 31-40.

42. **Rahman J***, Sultana F, Fatima K, Hasan MM, Gain N, Hossain MS, Chowdhury AK, Rahman A (2022). Genetic diversity of field mustard (*Brassica rapa* L.) and their saturated and unsaturated fatty acids association. *SABRAO J. Breed. Genet*. 54(2): 249-266.

41. **Rahman J**., Gase K., and Baldwin I.T. (2021) California TRV-based VIGS vectors mediate gene silencing at elevated temperatures but with greater growth stunting. *BMC Plant Biology*. 21:553-569.

40. Hasan M.M., **Rahman J***., Sultana F., Fatima K., Shahriar S. A., Imtiaz A.A Subramaniam S., and Uddain J. (2021). Screening of suitable genotype for Bangladesh condition based on genetic variability and path analysis in F_2 white maize populations. *Crop Science*. 61:1760–1772.

39. Sultana F, **Rahman J***., Hasan M.M. (2021). Genetic variability and character association of Bangladeshi popular varieties of mustard (Brassica rapa L.). J. *Bangladesh Acad. Sci*., 44(2): 95-107.

38. Shompa B.N., Fatima K., Jony M., Sarker S., Ullah MJ, Chowdhury AK, **Rahman J***. (2020). Selection of dwarf stature yield potential lines from F_3 populations of white maize (*Zea mays* L.). *J. Genet. Resour.,* 6(2): 95-105

37. Islam M.T., Shompa B.N., **Rahman J***., (2020). Genetic diversity in fiber related traits of tossa jute (*Corchorus olitorius* L.) germplasm. *SAARC J. Agric*., 18(2): 27-37.

36. Fatima K., Biswas M.M.I., Mahmud M.S., Ullah M.J. **Rahman J**. 2019. Comparing yield performance of CIMMYT's white maize lines with other exotic and inland genotypes in different agro ecological zones of Bangladesh. *J. Expt. Biosci.* 10(2):73-86.

35. Fatema R., **Rahman J***., Shozib H.B., Nazrul M.I. Fatima K. (2019). Genetic Diversity and Nutritional Components Evaluation of Bangladeshi Germplasm of Kidney Bean (*Phaseolus vulgaris* L.). *J. Genet. Resour*., 5(2): 83-96.

34. Chowdhury, A., Akter A., Hossain M.S., **Rahman J**., (2018). Characters association analysis of morpho-physiological traits in spring wheat (*Triticum aestivum*) under drought stress. *J. Sci. Tech.,* 16:37-47.

33. Islam M.F., Fatema R., Fatima K., **Rahman J***. (2018). Genetic variability and character association for fruit related traits in tomato (*Lycopersicon esculentum* L.). *Bangladesh J. Pl. Breed. Genet*., 31(1).: 51-60.

32. Islam M.T., Shompa B.N., Ahmed I., **Rahman J**. (2018). Genetic variability and character association for fiber related traits in tossa Jute (*Corchorus olitorious* L.). *Bangladesh J. Pl. Breed. Genet*., 31(1):33-42.

31. Ullah M.J., Islam M.M., Fatima K, Mahmud M.S., **Rahman J**., and Akhter S. (2017). Comparing modern varieties of white maize with local races: ear characters. *J. Expt. Biosci.***8**(2): 49-58.

30. Ullah M. J., Islam M.M., Fatima K, Mahmud M.S., Akhter S., **Rahman J**., Quamruzzaman M. (2017). Comparing modern varieties of white maize with landraces in Bangladesh: Phenotypic traits and plant characters. *J. Expt. Biosci*., 8(1):27-40.

29. Ullah M. J., Islam M. M., Fatima K., Mahmud M. S. and **Rahman J**. (2016): Performance of seedling transplantation of White maize varieties under varying planting geometry. *J. Expt. Biosci*., 7(2):21-28.

28. Hossain S., Haque M. M., **Rahman J**. (2016). Genetic Diversity Analysis of Some Extinct Local Aman Rice Genotypes (*Oryza. Sativa* L.) in Bangladesh. *Haya: Saudi J. Life Sci.,1(3):93-99.*

27. Hossain, S., Haque M. M., **Rahman J**., (2016). Genetic characterization of some extinct local Aman rice genotypes (*Oryza sativa* L.). *Basic Res. J. Agril. Sci. Rev., 5(6): 84-89.*

26. Rahman, M., Barma N. C. D., Biswas, B. K., Khan, A. A., **Rahman, J**. (2016). Study on morpho-physiological traits in spring Wheat (*Triticum aestivum* L.) under rainfed condition. *Bangladesh J. Agril. Res., 41(2): 235-250*.

25. Ullah, M. J., **J. Rahman**, M. Yeasmin, Fatima, K., Quamruzzaman M. (2016). Examining allelopathic effect of fresh mikania (*Mikania micrantha*) addition to soil on cyperaceous weeds in kharif season. *J. Expt. Biosciences*, 7(1):23-32.

24. Kumar, V., Mishra S. K., **Rahman J**., Taneja J., Mishra N. S., Mukherjee S. K. (2015). Mungbean yellow mosaic Indian virus encoded AC2 protein suppresses RNA silencing by inhibiting Arabidopsis RDR6 and AGO1 activities. *Virology, 486: 158–172*.

23. Islam M.S., Halder T., Hossain J., Mahmud F., **Rahman J**. (2015). Genotype-Environment Interaction in Spring Wheat (*Triticum aestivum*) of Bangladesh. *Bangladesh J. Pl. Breed. Genet., 28(2): 17-24*.

22. Hossain, S., Haque M. M., **Rahman J**. (2015). Genetic Variability, Correlation and Path Coefficient Analysis of Morphological Traits in some Extinct Local Aman Rice (*Oryza sativa* L). *J. Rice Res., 3: 158*.

21. **Rahman J**., Sanan-Mishra N., Mukherjee S. K. (2014). MYMIV-AC2 Protein Suppresses Hairpin-Induced Gene Silencing in *Nicotianatabacum* cv. Xanthi. *Plant Biotechnol Rep*., *8: 337–347.*

20. Ullah, M.J., **Rahman J**., Yeasmin M., Fatima F. and Quamruzzaman M. (2014). Allelopathic effect of Mikania (*Mikania micrantha*) in kharif season to control *Fymbristylis miliacea* weeds. *J. Expt. Biosci.,* 5(2):79-86.

19. Rahman, M. M., **Rahman, J**., Azad, M. A. K., Barma, N. C. D., Biswash, B. K. (2013). Genetic diversity in Spring Wheat genotypes under drought stress in Bangladesh. *Bangladesh J. Pl. Breed. Genet*., *26(1):1-10*

18. **Rahman, J**., Karjee, S., Mukherjee, S. K. (2012). MYMIV-AC2, a geminiviral RNAi suppressor protein, has potential to increase the transgene expression. *Appl. Biochem. Biotechnol*., *167: 758-775*

17. Islam, M. F., **Rahman, J**., Islam, M.S., Akbar, A. (2014). Genetic diversity of fruit development related traits of tomato. *J. Expt. Biosci., 5(1):41-48.*

16. Haque, M. M., Islam, M. S., **Rahman, J**., Mannan, M. A. (2014). Study on haor homestead and its fruits diversity in Bangladesh. *J. Expt. Biosci., 5(1):1-6.*

15. Ullah, M. J., **Rahman, J**., Yeasmin, M., Fatima, K., Quamruzzaman, M. (2014). Suitability of using mikania (*Mikania micrantha*) in kharif season to control nutsedge weeds. *J. Expt. Biosci., 5(1):77-86.*

14. Yeasmin, M., Ullah, M. J., **Rahman, J**., Fatima, K., Azad, M. J. (2014). Inflorescence and siliqua development of mustard varieties as influenced by different sowing time and inflorescence-top cutting. *J. Expt. Biosci., 5(1):87-96.*

13. Fatima, K., Biswas, P. K., Ali, M. H., **Rahman, J**. (2010). Sowing depth and seed size effect on yield attribute and yield of mungbean (*Vigna radiata*). *Bangladesh Agron. J., 13(1&2):67-74.*

12. Fatima, K., Biswas, P. K., Ali, H., **Rahman, J.** (2010). Emergence and seedling attributes of Mungbean (*Vigna radiate* (L.) Wilezek) as influenced by sowing depth and seed size. *Int. J. Agric. Environ. &Biotech., 4(4): 343-348.*

11. **Rahman, J**., Fatima, K., Newaz, M. A. (2009). Gene action for pod yield and related characters in Lablab bean (*Lablab purpureus*L.). *Int. J. Agric. Environ. &Biotech., 2(4): 397-399.*

10. **Rahman, J**., Fatima, K., Newaz, M. A. (2009). Genetic study and gene action of edible pod yield in 6X6 F_2diallel population of Lablab bean (*Lablab purpureus*L.). *Int. J. Agric. Environ. &Biotech., 2(3): 222-226.*

09. Fatima, K., Biswas, P. K., Ali, H., **Rahman, J.** (2009). Dry matter accumulation and its partitioning in different plant parts of Mungbean as influenced by sowing depth and seed size. *Bangladesh Agron. J., 12(1&2): 47-55.*

08. Fatima, K., Biswas, P. K., Ali, H., **Rahman, J.** (2009). Influence of sowing depth and seed size on different agronomic traits of Mungbean CV. Bari Mung-5. *Int. J. Agric. Environ. &Biotech., 2(3): 266 -270.*

07. Mahmud, F., Ullah, M. Z., **Rahman, J.,** Huda, K. M. K. (2006). Studies on mixing ability and inter-genotypic competition from uniblends and biblends of five Lentil cultivars. *The Agriculturists, 4(1&2): 44-49.*

06. Islam, M. S.,Newaz, M. A., **Rahman, J.** (2005). Genetypic-environment-growth stages interaction in Soybean. *Progress. Agric., 16(1): 69-74.*

05. Islam, M. S., Newaz, M. A., **Rahman, J.** (2005). Genotypic-environment interaction for seed yield and yield contributing characters in Soybean (*Glycine max* L.). *Int. J. Sustain. Agril. Tech., 1(3): 20-24.*

04. **Rahman, J**., Newaz, M. A., Mahmud, F. (2003). Genetic variability, correlation and path analysis in Lablab bean (*Lablab purpureus* L). *J. Agric. Educ. Tech., 6(1&2): 97-100.*

03. Islam, M. S.**,** Newaz, M. A., **Rahman, J.,** Zeba, N. (2003). Stability analysis on seed yield in Soybean (*Glycine max* L.). *J. Agric. Sci. Tech., 4(2): 12-16.*

02. **Rahman J**., Islam**,** M. S., Newaz, M. A., Kabir, M. H. (2003).Genetic divergence analysis of Lablab bean (*Lablab purpureus* L.). *J. Subtropic. Agril. Dev., 1(1): 6-9.*

01. **Rahman J**., Newaz, M. A**.,** Islam, M. S**.** (2002). Combining ability analysis on edible pod yield in F_2 diallel population of Lablab bean (*Lablab purpureus* L.). *J. Agric. Educ. Technol., 5(1&2): 33-36*

8. Book:

01. Ullah M.J., Akbar M.A., Sarkar A.A.Z. (2018). Prospects and cultivation practices of White maize: A secondary staple crop for Bangladesh. **Rahman J. (Ed.)**. Krishi Gobeshona Foundation (KGF), Bangladesh Agriculture Research Council. Dhaka, Bangladesh.

9. Popular Article (পত্র পত্রিকায় প্রকাশিত জনপ্রিয় আর্টিকেল)

১. জামিলুর রহমান, পার্পল ভুট্টার জাত উদ্ভাবনে গবেষণা। দৈনিক "যায়যায়দিন" (১০ জুন ২০১৮) এ প্রকাশিত প্রতিবেদন।

২. জামিলুর রহমান, বহুগুণী বেগুনি ভুট্টা শেকৃবিতে জাত উদ্ভাবনে চলছে নিবিড় গবেষণা। দৈনিক "যুগান্তর" (১৩ জুন ২০১৮) এ প্রকাশিত প্রতিবেদন।

৩. জামিলুর রহমান, "ক্যান্সার, ডায়াবেটিস ও স্থুলতা রোধে বেগুনী ভূট্টার ভূমিকা"। দৈনিক "কৃষিসংবাদ" (২৮ মে ২০১৮) এ প্রকাশিত প্রতিবেদন।

৪. জামিলুর রহমান, "ক্যান্সার, ডায়াবেটিস ও স্থুলতা রোধে বেগুনী ভূট্টার ভূমিকা ও শেকৃবি তে বেগুনী ভূট্টার জাত উদ্ভাবনে গবেষণা"। মাসিক "পুষ্টিতথ্য" (মে ২০১৮) এ প্রকাশিত প্রতিবেদন।

৫. জামিলুর রহমান, "ক্যান্সার ও ডায়াবেটিস প্রতিরোধে বেগুনি ভূট্টা"। দৈনিক "জনকণ্ঠ" (৪ আগষ্ট ২০১৮) এ প্রকাশিত প্রতিবেদন।

৬. জামিলুর রহমান, এসএইউ ক্যানোলা ১ (SAU Canola-1) পরিচিতি ও উৎপাদন প্রযুক্তি।

10. Professional Leadership

i. **Director** (September, 2024 to till date), ICT Cell, Sher-e-Bagnla Agricultural University (SAU), Dhaka

ii. **Treasurer** (December 2019 to till date), Plant Breeding and Genetics Society of Bangladesh **(PBGSB)**

iii. **Head, Membership Section** (January 2024 to till date), Global Network of Bangladeshi Biotechnologists (GNOBB).

iv. **Member, Executive Committee** (February 2023 to till date), Bangladesh Association for Plant Tissue Culture and Biotechnology (BAPTC&B).

v. **Chief Moderator** (July 2024 to till date). Bangladesh Biology Olympiad (BDBO). Dhaka North, Sher-e-Bangla Agricultural University, Dhaka

vi. **General Secretary** (March 2023 to April 2024). Sada Dal Teachers' Association of Sher-e-Bangla Agricultural University, Dhaka 1207.

vii. **Vice president** (July 2022 to till June 2023). Bangladesh Biology Olympiad (BDBO). Dhaka North, Sher-e-Bangla Agricultural University, Dhaka

viii. **Treasurer** (November 2019 to February 2023). Plant Breeding and Genetics Society of Bangladesh (PBGSB).

ix. **Member Secretary. Post Doc Ordinance Committee,** Sher-e-Bangla Agricultural University, Dhaka 1207.

x. **Member. Ph.D. Ordinance Committee,** Sher-e-Bangla Agricultural University, Dhaka 1207

xi. **Chairman** (March 2017 to March 2019). Dept. of Genetics and Plant Breeding. Sher-e-Bangla Agricultural University, Dhaka 1207.

11. Organizers of International & National Conferences

i. **Member Secretary, Scientific Committee of 2nd International & 12th Biennial Conference** of Plant Breeding and Genetics Society of Bangladesh (PBGSB). 10-11 February, 2023, Sher-e-Bangla Agricultural University, Dhaka

ii. **Member, Chief Executive Committee of 5th ICBHA 2023 Conference** of Global Network of Bangladeshi Biotechnologists (GNOBB). 1-3 September, 2023, Dhaka University, Dhaka.

iii. **Member Secretary, Presentation Committee of 11th Biennial Conference** of Plant Breeding and Genetics Society of Bangladesh (PBGSB). 28-29 December, 2019, ACI Center, Dhaka.

iv. **Member, Chief Executive Committee of 4th ICBHA 2023 Conference** of Global Network of Bangladeshi Biotechnologists (GNOBB). 11-13 November, 2019, Dhaka University, Dhaka.

v. **Member Secretary, Publication Committee of 10th Biennial Conference** of Plant Breeding and Genetics Society of Bangladesh (PBGSB). 07-08 January, 2017 Bangladesh Agricultural Research Council (BARC), Dhaka

12. Invited Speaker of Seminar/Conference /Workshop

1. **Rahman J.** 2024. Citrus Industry of Bangladesh. The 15th International Citrus Congress. Jeju, **South Korea**.
2. **Rahman J**. 2024. Targeted and Multiplex Genome Editing for Crop Improvement. In: Training on Genome Editing for Agricultural Research Workshop, 25-29 May 2024 Bangladesh Agriculture Research Institute (BARC), Dhaka. Bangladesh
3. **Rahman J.** 2024. Targeted genome editing for improving crop traits: Bangladesh aspect. In: Training on Genome Editing for Agricultural Research Workshop, 25-29 May 2024 Bangladesh Agriculture Research Institute (BARC), Dhaka, Bangladesh
4. **Rahman J.** 2024. Genetically Modified (GM) Crops: Prospect and Challenges in Bangladesh. In: Training workshop on Biocenology, 25-26 May 2024. Bangladesh Agriculture Development Corporation (BADC), Jashore, Bangladesh
5. **Rahman J**. 2024. Genetically Modified (GM) Crops, Its Impact on Food Security & Human Health. In: Training workshop on Biocenology, 07-08 May 2024. Bangladesh Agriculture Development Corporation (BADC), Rangpur, Bangladesh
6. **Rahman J**. 2024. Diagnosis and specificity detection of *Ralstonia* pathogen through PCR (Polymerase Chain Reaction). In: Training workshop on Biocenology, 23-24 April 2024 Bangladesh Agriculture Development Corporation (BADC), Dhaka, Bangladesh
7. **Rahman J**. 2024. Molecular tools for detecting of insect-pest and diagnosis of plant pathogen. In: Training course on Fundamental Plant Biotechnology, 10-14 March 2024. National Agriculture Training Institute (NATA), Gazipur, Bangladesh
8. **Rahman J**. 2024. Transgenic/GMO and Biosafety: Prospects and challenges in Bangladesh. In: Training course on Fundamental Plant Biotechnology, 10-14 March 2024, National Agriculture Training Institute (NATA), Gazipur, Bangladesh
9. **Rahman J**. 2024. Genetically Modified (GM) Crops, Its Impact on Food Security & Human Health. In: Training course on Nutrition and Food Safely, 19-23 November, 2023. National Agriculture Training Institute (NATA), Gazipur, Bangladesh.
10. **Rahman J**. 2024. Strategies of Sustainable Production of Some Major, & Minor Cereal Crops for Maintaining Nutrition and Food Security in Bangladesh. In:

Training course on Nutrition and Food Safely, 19-23 November, National Agriculture Training Institute, Gazipur. Bangladesh

11. **Rahman. J.** 2023. Toward the development of canola grade mustard variety suitable for Bangladesh conditions. Annual Research Review Workshop' 20-21 December 2023. Sher-e-Bangla Agricultural University Research System (SAURES), Dhaka, Bangladesh
12. **Rahman J**. 2023. Toward the development of canola grade mustard variety suitable for Bangladesh conditions. Annual Research Review Workshop' 20-21 December 2023. Sher-e-Bangla Agricultural University Research System (SAURES), Dhaka, Bangladesh
13. **Rahman J.** 2023. A new VIGS vectors based California TRV induce gene silencing at elevated temperatures. The 2nd ICGEB Alumni Association, 27-28 November 2023, ICGEB, New Delhi, **India**.
14. **Rahman J**. 2023. Development of Canola Grade *Brassica juncea* Mustard Variety to Meet the Edible Oil Security and Climate Change Challenges in Bangladesh. Annual Research Review Workshop' 14-15 October, 2023. Bangladesh Academy of Sciences, Agargoan, Dhaka 1207, Bangladesh
15. **Rahman J.** and Ali, MMA., 2023. Gene-pyramiding of agronomically important traits from exotic germplasm and evaluation of some exotic lines of cotton (*Gossypium hirsutum*). Annual Review Meeting, Cotton Development Board, Bangladesh.
16. **Rahman J.** et al., 2023. A novel VIGS vectors based California TRV induce gene silencing at elevated temperatures. The 10th Biennial Conference-2023, Bangladesh Phytopathological Society, Bangladesh**.**
17. **Rahman J.** et al., 2023. A new VIGS vectors based California TRV induce gene silencing at elevated temperatures. Young Scientist Congress. Organized by Bangladesh Academy of Sciences. Bangladesh
18. **Rahman J.** et al., 2022. Development of Canola grade mustard variety in Bangladesh 10th International Plant Tissue Culture and Biotechnology Conference. Dept. of Botany, Dhaka University, Dhaka, Bangladesh.
19. **Rahman J.** et al., 2020. Analysis of erucic acid content and its regulatory gene in mustard genotypes in Bangladesh. 9th International Plant Tissue Culture and Biotechnology Conference. Dept. of Botany, Dhaka University, Dhaka, Bangladesh.
20. **Rahman J.** et al., 2018. Micro-grafting is a novel means of HGT for overcoming the cross incompatibility between *Corchorus* olitorius and *Corchorus capsularis*. The 3rd International Symposium on Innovations in Plant and Food Sciences. Fuzhou, **China**.
21. **Rahman J**. 2015. Co-evolution of host-pathogen interaction. 23 July. Lebex Summer School, Organize by INRA and CNRS, Toulouse, **France**.

22. **Rahman J**., Gase K., Baldwin I.T. 2014. Improved viral tools for the functional analysis of ecologically relevant plant genes under native conditions. ICE Symposium, MPI for Chemical Ecology, Jena, **Germany**.
23. Gase K., Schäfer M., **Rahman J**., Rothe E., Groten K., Kim S.G. and Baldwin I.T. 2013. New manipulative tools to study ecological interactions in *Nicotiana attenuata*. ICE Symposium, Max Planck Institute for Chemical Ecology, Jena, **Germany**.
24. **Rahman J**., Karjee S. and Mukherjee S.K. 2009. Molecular Farming Using a Geminiviral Encoded Suppressor Protein MYMIV-AC2. International Workshop on "Geminivirus Genome and its Impact on RNAi" November, 2009. ICGEB, **India**.
25. **Rahman J**., Karjee S. and Mukherjee S.K. 2009. Molecular Farming Using a Geminiviral Suppressor Protein MYMIV-AC2. International conference on Advances in Plant Virology. Association of Applied Biologists, **United Kingdom**.
26. Karjee S., Kumar V., Panday P., **Rahman J**., Mukherjee S.K. 2009. RNAi Suppressors: Detection, Mechanisms and Applications. International Workshop "Geminivirus Genome and its Impact on RNAi" November 2009, Organized by ICGEB, **India**.

13. Membership in Professional Organizations, Society, Institute, etc.

i. Member, Post Doc Alumni Association, Max Planck Institute, Germany
ii. Member, Krishibid Institution Bangladesh (KIB)
iii. Member, ICGEB Alumni Association, ICGEB, Italy
iv. Member, Asian Federation of Biotechnology
v. Member, Jawaharlal Nehru University Alumni Association, New Delhi, India
vi. Life Member, Alumni Association of German Universities in Bangladesh (AAGUB)
vii. Life Member, Plant Breeding and Genetic Society of Bangladesh(PBGSB)
viii. Life Member, Plant Tissue Culture and Biotechnology Society of Bangladesh (BAPTC&B)
ix. Life Member, Global Network of Bangladeshi Biotechnologists (GNOBB)
x. Life Member, Bangladesh Bioinformatics and Computational Biology Association (BBCBA)
xi. Life Member, Ecological Society of Bangladesh
xii. Member, Alumni Association, Sher-e-Bangla Agricultural University, Dhaka
xiii. Associate Member, Bangladesh Society of Agronomy
xiv. Associate Member, Bangladesh Society of Entomology
xv. Member of Service Civil International (SCI)
xvi. Member of Agri-Rovers

14. Editorial and Reviewer activities

i. BMC Plant Biology
ii. BMC Genomics
iii. Frontiers in Plant Science

iv. PLOS ONE
v. Crop Science
vi. Heliyon
vii. American Journal of Plant Science
viii. Vegetos
ix. Australian Journal of Crop Science
x. OMICS
xi. Bangladesh Journal of Botany
xii. Bangladesh Journal of Plant Tissue culture and Biotechnology
xiii. Bangladesh Journal of Genetics and Plant Breeding
xiv. SUST Journal of Science & Technology
xv. Dhaka University Journal of Biological Sciences
xvi. Reviewer of BAS-USA research grant
xvii. Reviewer of GARE, BANBEIS, Ministry of Education, Government of Bangladesh
xviii. Reviewer of Research grant proposals of UGC, Bangladesh

15. Moderator and External Member of Public Universities

Question Paper Moderator, Question Paper Setter, External Examiner of different public universities, viz., Dhaka University, Rajshahi University, Mawlana Bhashani Science and Technology University, Patuakhali Science and Technology University, Noakhali Science and Technology University, Bangladesh Agricultural University, Khulna University, Sylhet Agricultural University, Hajee Mohammad Danesh Science and Technology University, etc.

16. Area of Research

Plant Breeding & Molecular Breeding, Plant Biotechnology, Plant Molecular Biology, Genomics and Bioinformatics, Molecular Virology, Stress Breeding and Quality Breeding

17. Teaching

Postgraduate level:
Molecular Genetics (GEPB 505)
Genomics and Bioinformatics (518)
Breeding for Field Crops (GEPB 506)
Biometrical Genetics (GEPB 503)
Undergraduate level:
Cytogenetics (GEPB 203), Genetics (GEPB 305), Plant Breeding (GEPB 455), Heterosis Breeding (GEPB 381)

18. Research Supervisor of Ph.D. & M.S. students

Ph.D. Level
Supervisor : 2 Ph.D. students
Co-supervisor : 7 Ph.D. students
M.S. Level
Supervisor : 20 M.S. students
Co-supervisor : 22 M.S. students

19. Research Collaborator:

- Max Planck Institute for Chemical Ecology, **Germany**
- Harvard University, **USA**
- International Centre for Genetic Engineering and Biotechnology, **New Delhi**
- Iwate University, **Japan**
- Indian Agriculture Research Institute, **New Delhi**
- Tamil Nadu Agricultural University, **Tamil Nadu**

20. Personal information:

- **Date of Birth and Place : 25 February, 1975, Manikgonj, Bangladesh**
- Nationality : Bangladeshi
- Gender and Religion : Male (Married) and Islam
- Traveled : Germany, France, Belgium, UK, Spain, China, India, Nepal, & Saudi Arabia
- Permanent Address : Village - Soturia, Thana- Saturia, District - Manikgonj.
- Present address : Professor

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