

CURRICULUM VITAE
Mohammad Nurul Islam, Ph.D.
(মুহাম্মদ নূরুল ইসলাম পিএইচ. ডি.)



PROFESSIONAL ADDRESS

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PERMANENT ADDRESS:

Professor Dr. Mohammad Nurul Islam
Mother's Name: Mafia Khatun
Father's name: Mohammad Taij Uddin Mizi
Village: Ramjanbeg
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RESEARCH INTEREST

Molecular Breeding of Tomato, Developing Virus Resistance in Tomato and Mungbean against Geminiviruses

EDUCATION

2015 : Post-doctorate, Indian Science Research Fellow, Plant Cell Biotechnology, Central Food Technology Research Institute, Mysore, Karnataka, India
2010 : Post-doctorate, Department of Cell and Molecular Biology, Uppsala University, Sweden
2005 : PhD, Plant Molecular Biology, International Centre for Genetic Engineering and Biotechnology, New Delhi, India
1997(2000) : M.Sc., Department of Botany, University of Dhaka, Bangladesh
1996 (1998) : B.Sc. (Hons.), Department of Botany, University of Dhaka, Bangladesh

PROFESSIONAL EXPERIENCE

Jan. 2023 to date : Member, editorial Board, PTC&B Journal
Jan. 2023 to date : General Secretary, Bangladesh Association for Plant Tissue Culture and Biotechnology

January '23 to date: Member editorial board Jahangirnagar University Journal of Biological Sciences.

August'21- to date : Director, Chromosome Research Centre, University of Dhaka, Dhaka-1000

Nov.'19- March'20: Adjunct Faculty member, Department of Genetic Engineering and Biotechnology, East West University Dhaka

July '13- to date : Professor, Department of Botany, University of Dhaka, Bangladesh

Jan. 2017 to Dec '22 : Associate Executive editor, PTC&B Journal

Jan. 2017 to Dec. '22 : Treasurer, Bangladesh Association for Plant Tissue Culture and Biotechnology

Nov '15-Feb '16 : ISR Fellow at Plant Cell Biotechnology (PCBT), CFTRI, Mysore, India
Mentor: Dr. Sarada R. Head and Sr. principal Scientist, PCBT, CFTRI, India

Nov 10- July '13 : Associate Professor, Department of Botany, University of Dhaka, Bangladesh

Feb '08 - Feb'10 : Post doctoral fellow, Department of Cell and Molecular Biology, Uppsala University, Sweden
- Mentor: Professor, Leif A. Kirsebom, Department of Cell and Molecular Biology, Uppsala University, Sweden

July '07 - Jan '08 : Assistant House Tutor, Fazlul Hoque Muslim Hall, University of Dhaka, Dhaka-1000.

May '07 - Oct'10 : Assistant Professor, Department of Botany, University of Dhaka, Bangladesh

July '03 –May '07 : Lecturer, Department of Botany, University of Dhaka, Bangladesh

Sep. '01 - Sep. '05 : Ph.D. fellow, Plant Molecular Biology group, International Centre for Genetic Engineering and Biotechnology (ICGEB), New Delhi, India
-Mentor: Dr. Sunil Kumar Mukherjee, Assistant Scientist, Plant Molecular Biology Group, ICGEB, New Delhi, India

April 2000- Sep.'01: Research Assistant, of an USDA funded project: Improvement of Lentil through Tissue Culture and Genetic Transformation
Mentor: Professor R.H. Sarker, Plant Breeding and Biotechnology lab, Department of Botany, University of Dhaka, Dhaka-1000, Bangladesh

TEACHING EXPERIENCE

November 2019 : Adjunct Faculty member, Department of Genetic Engineering and Biotechnology, East West University Dhaka.

Sep.'05-to date : Teaching Fundamental Genetics, Molecular Genetics, Genomics, Proteomics & Bioinformatics and Basic Plant Breeding courses.
Supervising MS, M. Phil and Ph. D students working on topics of Molecular Genetics and Biotechnology in the Department of Botany, University of Dhaka, Bangladesh

Sep. '09 -Nov. '09 : Supervised UGSBR fellow in the Microbiology lab of the Department of Cell and Molecular Biology, Uppsala University

LIST OF PUBLICATIONS: MOHAMMAD NURUL ISLAM Ph.D.

1. Zennathara, Afrin S., Ali M., Islam M.N., and Saha M.L. (2023). Exopolysaccharide producing bacteria of Sundarban Mangrove Forest soil and their antibiotic sensitivity profile. *Dhaka University Journal of Biological Sciences*, **32**(2): 243–255. <https://doi.org/10.3329/dujbs.v32i2.67683>
2. Rahman S., Noman A.A., Islam M.N., and Ahsan S. (2023). Determination of antibiotic resistance pattern of bacteria isolated from livestock feces. *Dhaka University Journal of Biological Sciences*, **32**(2), 265–269. <https://doi.org/10.3329/dujbs.v32i2.67685>
3. Hasan AMF, Bhowmik A, **Islam MN** and Ahsan S 2023. Validation of a Multiplex PCR for the Simultaneous Detection of *E. coli* and Class 1 Integron. *Plant Tissue Cult. & Biotech.* **33**(1): 17-24

4. Tabassum N, Jannat M and **Islam MN** (2022) Genetic Diversity Analysis of Five Different Species of *Riccia*. Plant Tissue Cult. & Biotech. **32**(2): 137-144
5. Zennathara, Afrin S, Ali M, **Islam MN** and Saha ML (2022) Exopolysaccharide (EPS) Producing Bacteria of Sundarbans Mangrove Forest Soil. Plant Tissue Cult. & Biotech. **32**(2): 145-156
6. Islam KN, Hasan MM, **Islam MN** (2022) CRISPR/Cas for Improved Stress Tolerance in Rice. In: Gowdra Mallikarjuna, M., Nayaka, S.C., Kaul, T. (eds) Next-Generation Plant Breeding Approaches for Stress Resilience in Cereal Crops. Springer, Singapore.
7. Bhajan SK, Hasan MM, Haque MA, and **Islam MN** (2022) Genetically Modified Food for Ensuring Food Security Issues. In M. H. Ahmad, M. Imran, & M. K. Khan (Eds.), Food Security Challenges and Approaches. IntechOpen. <https://doi.org/10.5772/intechopen.106810>
8. Roy S, Anwar A, Tabassum N and **Islam MN** (2022) Genotypic Variability Analysis of Lotus (*Nelumbo nucifera* Gaertn.) from Bangladesh using RAPD and SSR Markers. Plant Tissue Cult. & Biotech. **32**(1): 77-87. DOI: <https://doi.org/10.3329/ptcb.v32i1.60474>
9. Roy S, Jannat M, Tabassum N and **Islam MN** (2022) Morphological and Genotypic Characterization of Different Lotus (*Nelumbo Nucifera* Gaertn.) Samples available in Bangladesh. Bangladesh J. Plant Taxon. **29**(1): 85-95. DOI: <https://doi.org/10.3329/bjpt.v29i1.60450>
10. Anzum N, Khan FI, Hossain MZ, **Islam MN** and Saha ML (2022) Isolation and Identification of Pigment Producing Bacteria from the Ratargul Swamp Forest Soil. Dhaka Univ. J. Biol. Sci. **31**(1): 1-8.
11. Paul TK, Hasan MM, Eusufzai TK, Hasan MM, Islam S, Ansarey FH, **Islam MN** and Nahiyani ASM (2022) Molecular Characterization of Cucumber mosaic virus subgroup II isolate associated with cucumber in Bangladesh. Indian Phytopath. **75**:203-214 <https://doi.org/10.1007/s42360-021-00446-9>
12. MS Bhuiyan, Hossain MM, Hossain KS and Islam MN (2021) Isolation and Identification of Mycorrhizal Fungus from an Epiphytic Orchid (*Rhynchostylis retusa* L. BL.). Bangladesh J. Bot. **50** (1): 85-91.
13. Bhajan Sk, Hasan MM and Islam MN (2021) Mungbean [*Vigna radiata* (L.) R. Wilczek]: Importance, Production Constraints and Genetic Improvement. In: Bech ML (Eds) *Vigna radiata: Production, Cultivation and Uses*. ISBN: 978-1-53619-464-7. Nova Science Publishers, Inc. New York, USA
14. Naznin R, Sultana N, Hossain MN, **Islam MN**, Tabassum A, Gani MA and Jannat M (2020) Conventional and Molecular Identification of Culturable Airborne Bacteria. Plant Tissue Cult. & Biotech. **30**(1): 15-25.
15. Jannat M, Eva UH, Sarker RH and Islam MN (2020) Barcoding of ToLCV Resistant Tomato Germplasm in Bangladesh. Plant Tissue Cult. & Biotech **30**(1): 107-117.
16. Shamsi S, **Islam MN**, Hosen S, Al-Mamun M, Chowdhury P, Momtaz MS, Naher N, Yeasmin Z, Sultana S, Khatun A, Abu-Al-Islam and Md. MA (2019) Morphological and Molecular Identification of Ten Plant Pathogenic Fungi. Bangladesh J. Plant Taxon. **26** (2): 169-177.
17. Bhajan SK, Begum S, **Islam MN**, Hoque MI and Sarker RH (2019) *In vitro* Regeneration and *Agrobacterium*-mediated Genetic Transformation of Local Varieties of Mungbean (*Vigna radiata* (L.) Wilczek). Plant Tissue Cult. & Biotech. **29**(1): 81-97.
18. **Islam MN**, Ansari A and Sarker RH (2018) Tomato Leaf Curl Patna Virus Causing Tomato Leaf Curl Disease in Bangladesh. Bangladesh J. Bot. **48**(1): 153-161.
19. Ali M, Boonerjee S, Islam MN, Saha ML, Hoque MI and Sarker RH (2018) Endogenous Bacterial Contamination of Plant Tissue Culture Materials: Identification and Control Strategy. Plant Tissue Cult. & Biotech. **28**(1): 99-108.

20. Saha ML, Akter MD, Khan T, Ansari A and **Islam MN** (2018) Bacterial Load and Multi-Drug Resistance Patterns of Some Ready to Eat Street Foods of Dhaka City. *Dhaka Univ. J. Biol. Sci.* **27**(1): 27-36.
21. Rahman MO, Rahman MZ, Sony SK and **Islam MN** (2017) Genetic Variation and Molecular Relationships among Eight Taxa of *Desmodium* Desv. Based on RAPD Markers. *Bangladesh J. Plant Taxon.* **24**(2): 149-154.
22. Ahmed A, Rashid M, Hasan S, **Islam MN** and Rashid P (2017) RAPD and SSR Analysis of Afforested *Sonneratia apetala* BUCH.-HAM. Population from the Coastal Areas of Bangladesh. *Bangladesh J. Bot.* **46**(3): 1001-1007.
23. Parveen S and **Islam MN** (2017) Efficient Regeneration System for Popular Chili Variety of Bangladesh. *International J. Advan. Res. Botany* **3**(2): 6-12.
24. Saha ML, Afrin S, Sony SK and **Islam MN** (2017) Pigment Producing Soil Bacteria of Sundarban Mangrove Forest. *Bangladesh J. Bot.* **46**(2): 717-724.
25. Sweetey MA, Hossain MM, Hoque MA, Hasan M, Ivy NA, **Islam MN**, Sarker RH and Mitra S (2017) Molecular Characterization of Tropical Strawberry Genotypes. *Plant Tissue Cult. & Biotech.* **27**(1): 33-39.
26. Mohsin SM, Islam MR, Ahmmed ANF, Nisha HAC, Borna RS and **Islam MN** (2016) The genetic variability of *Alternaria porri* in Bangladesh. *ROM. J. BIOL. – PLANT BIOL.* **59–60**: 47-57.
27. Saha ML, Khan T, Kamal MM, Islam MN (2015) Proteolytic *Bacillus* Spp. Associated With Tannery Industries: Conventional and Molecular Identification. *Bangladesh J. Botany* **44** (4): 557-564.
28. Tabassum A, Saha ML and **Islam MN** (2015) Prevalence of Multi-Drug Resistant Bacteria in Selected Street Food and Water Samples. *Bangladesh J. Bot.* **44**(4): 621-627.
29. Das P, Ansari A, **Islam MN** and Sarker RH (2015) Genetic Transformation of a Local Tomato (*Solanum lycopersicum* L.) Variety of Bangladesh. *Plant Tissue Cult. & Biotech.* **25**(1): 879-979.
30. Rahman M, Islam MN, **Islam MN** and Hossain MS (2015) Isolation and Identification of Oral Bacteria and Characterization for Bacteriocin Production and Antimicrobial Sensitivity. *Dhaka Univ. J. Pharm. Sci.* **14**(1): 103-109.
31. Kamal MM, Bhajan SK, Tabassum N and **Islam MN** (2015) Molecular Diagnosis of Tomato Leaf Curl Virus Disease. *Proc. of the Third Intl. Conf. Advances in Bio-Informatics, Bio-Technology and Environmental Engineering- ABBE 2015*. Copyright © Institute of Research Engineers and Doctors, USA. All rights reserved. ISBN: 978-1-63248-060-6 doi: 10.15224/ 978-1-63248-060-6-02.
32. Akter N, Habib MA, Beauty SP, Rahim T and **Islam MN** (2014) Molecular Characterization of Four Morphological Mutants of *Neurospora crassa*. *Dhaka Univ. J. Biol. Sci.* **23**(1): 85-91.
33. Boonerjee S, **Islam MN**, Hoque MI and Sarker RH (2013) Genetic diversity analysis of eighteen tea (*Camellia sinensis* L.) clones of Bangladesh through RAPD. *Plant Tissue Cult. & Biotech.* **23**(2): 189-199.
34. Tabassum N, Sony SK, Bhajan SK and **Islam MN** (2013) Analysis of genetic diversity in eleven Tomato (*Lycopersicon esculentum* Mill.) varieties using RAPD Markers. *Plant Tissue Cult. & Biotech.* **23**(1): 49-57.
35. Pettersson BMF, Nitharwall RG, Das S, Behra KPR, Benedik E, Arasu UT, **Islam MN**, Dasgupta S, Bhattacharya A and Kirsebom LA (2013) Identification and expression of stressosomal proteins in *Mycobacterium marinum* under various growth and stress conditions. *FEMS Microbiol. Lett.* **342**(2):98-105 (DOI: 10.1111/1574-6968.12118).
36. Sony SK, Habib MA, and **Islam MN** (2012) Genetic Diversity of Different Mungbean [*Vigna radiata* (L.) Wilczek] Varieties Using RAPD Markers. *Bangladesh J. Bot.* **41**(2): 169-175.
37. Shaha ML, **Islam MN**, Aziz CB, and Hossain MZ (2012) Molecular Identification of Bacteria Present in the soils of the Madhupur Sal and the Sunderban mangrove forests of Bangladesh. *Dhaka Univ. J. Biol. Sci.* **21**(2): 117-124.

38. Alam SkS, Jahan N, Habib MA and **Islam MN** (2012) Cytogenetical and Molecular Characterization of Five Commercial Variety in *Trichosanthes anguina* L.". Cytologia **77**(2): 155-162.
39. **Islam MN**, Sony SK and Borna RS (2012) Molecular Characterization of Mungbean Yellow Mosaic Disease and Coat Protein Gene in Mungbean Varieties of Bangladesh. Plant Tissue Cult. & Biotech. **22**(1): 73-81.
40. Hussain MZ, Rahman MA, **Islam MN**, Latif MA and Bashir MA (2012) Morphological and Molecular Identification of *Fusarium oxysporum* Sch. isolated from Guava Wilt in Bangladesh. Bangladesh J. Bot. **41**(1): 49-54.
41. Shaha ML, Nessa M, Khan MR, **Islam MN**, and Hoque S (2012) Bacteriological and Physicochemical Water Quality of Four Ponds of Dhaka. Bangladesh J. Bot. **41**(1): 55-60.
42. Mondal MMA, Fakir MSA, **Islam MN** and Samad MA (2011) Physiology of seed yield in mungbean: growth and dry matter production. Bangladesh J. Bot. **40**(2): 133-138.
43. Ahmed A, Aziz A, Khan AZMNA, **Islam MN**, Iqbal KF, Nazma and Islam MS (2011) Tree Diversity as Affected by Salinity in the Sunderban Mangrove Forests, Bangladesh. Bangladesh J. Bot. **40**(2): 197-202.
44. Khatun M, Sultana SS, Ara H, **Islam MN** and Alam SkS (2011) Differential Chromosome Banding and Isozyme Assay of Three *Corchorus* spp. Cytologia **76**(1): 27-32.
45. Khan MR, Saha ML, Begum N, **Islam MN**, and Hoque S (2010) Isolation and Characterization of Bacteria from Rusted Iron Materials. Bangladesh J. Bot. **39**(2): 185-191.
46. **Islam MN** and Islam KT (2010) *Agrobacterium* mediated Genetic Transformation of Mungbean [*Vigna radiata* (L.) Wilczek]. Plant Tissue Cult. & Biotech. **20**(2): 37- 45.
47. Shoyaib M, Al-Wadud MA, Baker SM, **Islam MN** and Chae O (2010) Predicting Protein-Protein Interaction Using Amino Acid Sequence Information: A Computational Approach. Plant Tissue Cult. & Biotech. **20**(1): 37- 45.
48. Singh B, Ghosh J, **Islam MN**, Dasgupta S, and Kirsebom LA (2010) Growth, cell division and sporulation in Mycobacteria. Antonie van Leeuwenhoek **98**(2): 165-177.
49. Ghosh J, Larsson P, Singh B, Pettersson BMF, **Islam MN**, Sarkar SN, Dasgupta S, and Kirsebom LA (2009) Sporulation in *Mycobacteria*. PNAS **106**(26): 10781-10786.
50. Haque A, Anwar F, Jabid T, Baker SM, Khan H, **Islam MN** and Shoyaib M (2008) Identification of *Drosophila* Promoter Using Positional Differential Matrix and Support Vector Machine from Sequence Data. Plant Tissue Cult. & Biotech. **18**(2): 123-130.
51. Karjee S, **Islam MN** and Mukherjee SK (2008) Screening and Identification of Virus-Encoded RNA Silencing Suppressors. Methods in Mol. Biol. **442**: 187-203.
52. Patoare Y, Hossain MI, **Islam MN**, Chowdhury A, Parveen S, Hossain MM and Hasnat A (2007) Effect of Calcium Carbide on Rat Tissue. Dhaka Univ. J. Pharm. Sci. **6**(2): 93-98.
53. Singh DK, Karjee S, Malik PS, **Islam MN** and Mukherjee SK (2007) DNA replication and Pathogenicity of MYMIV. Comm. Curr. Res. Edu. Topics and Trend. Appl. Microbiol. **1**(1): 155-162.
54. Singh DK, **Islam MN**, Choudhury NR, Karjee S and Mukherjee SK (2007) The 32 kDa subunit of Replication Protein A (RPA) participates in the DNA replication of Mungbean Yellow Mosaic India Virus (MYMIV) by interacting with the viral Rep protein. Nucleic Acid Res. **35**(3): 755-770.
55. Choudhury NR, Malik PS, Singh DK, **Islam MN**, Kaliappan K and Mukherjee SK (2006) The Oligomeric Form of Rep Protein of Mungbean Yellow Mosaic India Virus (MYMIV) Show Helicase Activity Which Might be Necessary for Viral DNA Replication. Nucleic Acid Res. **34** (21): 6362-6377.
56. Sarker RH, **Islam MN**, Islam A, and Islam Z (2000) *Agrobacterium*-mediated transformation of peanut (*Arachis hypogaea* L.). Plant Tissue Cult. & Biotech. **10**(2): 137-142

BOOKS PUBLISHED

1. **Islam MN** and SK Mukherjee (2011) Construction of MYMIV based gene silencing vector and its use. ISBN: 978-3-8443-8820-6. LAP-LAMBERT Academic Publishing GmbH & Co KG. Dudweiler Landstr. 99, 66123 Saarbrücken, Germany.

MEETING ATTENDANCE

- September 11, 2023- Participated as a participant conference entitled “Dialogue on the nexus of climate Smart Agriculture and Innovative Biotechnology” held in Radisson BLU Hotel, Dhaka organized jointly by Ministry of Agriculture, GoB and USDA, USA
- September 1-3, 2023- Participated as organizer in the 5th “International Conference on Biotechnology in Health and Agriculture” held at Senate building University of Dhaka, Bangladesh, organized by Global Network of Bangladeshi Biotechnologist and presented a poster entitled Screening of ToLCV resistant cherry tomato varieties using Ty marker genes.
- March 17-19, 2023- participated as a invited speaker and chaired two session at 4th International conference on Biotechnology, held at Hotel Himalaya, Kathmandu, Nepal
- January 06 - 07, 2023- Participated in the “Nutrition expo and allied public health conference, held at the BARC Auditorium, Farmgate, Dhaka and acted as a session chair.
- December 30-31, 2022- Participated in 2022 Annual Biorisk Conference “Biosafety and Biosecurity in the control and eradication of Emerging, Remerging and Pandemic Diseases, held at the Dr. Shahid Milon Hall, BSMMU, Dhaka.
- November 25-27, 2022- Participated in 5th Young Scientist Congress organized by Bangladesh Academy of Sciences and presented two papers Abstract # OP01 and # OP02, held at the National Science and technology Complex, Agargaon, Dhaka.
- October 18-19, 2022- Participated in the conference on "Genome Editing in Plants: Harnessing the Benefits for Bangladesh" organized by Bangladesh Academy of Sciences (BAS) in association with South Asia Biosafety Program (SABP), Agriculture & Food Systems Institute (AFSI), Biotech Consortium India Limited (BCIL) and Bangladesh Agricultural Research Council (BARC) at The Westin Dhaka.
- October 15-16, 2022- Participated in the “Fifth Workshop of the Institutional Biosafety Officer (IBO) Training Program” organized by the Ministry of Agriculture, Government of the People's Republic of Bangladesh, in collaboration with the South Asia Biosafety Program (SABP), Agriculture & Food Systems Institute (AFSI) and Biotech Consortium India Limited (BCIL) at BCDM Rajendrapur, Gazipur, Bangladesh.
- September 13-15, 2022- attended virtual workshop on “Microbial Biotechnology for Novel Food and Food Ingredients for Southeast Asia” organized by Agriculture & Food Systems Institute, USA.
- August 2-4, 2022- Participated in 2nd National workshop on “Bangladesh Biosafety Clearing-House” organized by department of environment under the UNEP-GEF Project for Sustainable Capacity Building for Effective Participation in BCH (BCH III).
- July 28, 2022- Gene Drive Webinar: Integrating Social, Economic and Health Aspects Into Decision-making Process, organized by ISAAA.
- July 24, 2022- Participated seminar on “The impact of plastics on the environment and human health”, organized by Sweden Alumni Network Bangladesh held at the room No. 300, Mukarram Hussain Khandkar Bhaban, University of Dhaka, Dhaka.
- July 14- Webinar: Research Data: Why It Matters and How to Manage it” organiser Elsevier.
- June 14-15, 2022- Participated Biotechnology Outreach Conference organized by South Asia Biosafety program in association with USDA and AFSI, USA at The Westin Dhaka.

- June 8-9, 2022- Participated in the “Fourth Workshop of the Institutional Biosafety Officer (IBO) Training Program” organized by the Ministry of Agriculture, Government of the People's Republic of Bangladesh, in collaboration with the South Asia Biosafety Program (SABP), Agriculture & Food Systems Institute (AFSI) and Biotech Consortium India Limited (BCIL) at BCDM Rajendrapur, Gazipur, Bangladesh.
- March 27, 2022- Participated in the “Third Workshop of the IBO Training Program” organized by the Ministry of Agriculture, Government of the People's Republic of Bangladesh, in collaboration with the South Asia Biosafety Program (SABP), Agriculture & Food Systems Institute (AFSI) and Biotech Consortium India Limited (BCIL) at Hotel Sarina, Dhaka
- February 17, 2022- Participated in the “Second Workshop of the IBO Training Program” organized by the Ministry of Agriculture, Government of the People's Republic of Bangladesh, in collaboration with the South Asia Biosafety Program (SABP), Agriculture & Food Systems Institute (AFSI) and Biotech Consortium India Limited (BCIL) held virtually.
- October 29, 2021- Participated 4th National Scientific Conference on Food Safety and Health organized by the Bangladesh Society for Safe Food at Bangladesh University of Health Sciences, Darussalam road, Mirpur-1, Dhaka and Served as Co-Chair of the session-1.
- January 24-26, 2021- Participated in 1st National workshop on “Bangladesh Biosafety Clearing-House” organized by department of environment under the UNEP-GEF Project for Sustainable Capacity Building for Effective Participation in BCH (BCH III).
- December 9-10, 2019- Participated Nobel week dialogue organised by Swedish Institute at Gothia Towers, Gothenberg, Sweden.
- November 11-13, 2019- Participated in the 4th Innovations in Plant Food Sciences (IPFS) and International Conference on Biotechnology in Health and Agriculture (ICBAH) and presented paper entitled "Molecular characterization of tomato leaf curl virus resistance in tomato" held in University of Dhaka.
- July 21-August 03, 2019- Participated in the International Training Workshop on “Agrobiodiversity and Conservation of the Belt & Road Countries, held in Kunming Institute of Botany, Yunnan, China
- June 18-20, 2019- Participated in the SAARC Regional Expert Consultation meeting on "Progress and prospects of Agricultural Biotechnology and Bio-safety in South Asia” held at Hotel Ascott Palace, Dhaka, Bangladesh organized by SAARC and ILSI funded by SABP
- May 04-05, 2019- Participated in the workshop on "Regional Harmonization of Biosafety Regulatory Systems of South and South-East Asia” held at BRAC Centre Inn, Mohakhali, Dhaka, Bangladesh organized by DOE, GoB funded by UN environment and GEF.
- March 16, 2019- Participated in “Annual Botanical Conference 2018”, held in World Beach Resort, Cox’s Bazar, Bangladesh and published two abstracts.
- December 15-18, 2018- Participated in the 3rd International Symposium on Innovation in Plant and Food Sciences held in Fujian Agriculture and Forestry University, China and presented paper entitled "Development of Yellow Mosaic Virus Resistant Mungbean (*Vigna radiata* (L.) Wilczek)"
- November 7-8, 2018 - Attended in a workshop on "Using BanglaJOL and improving Journal Publishing Practices and Standards" organized by INASP in collaboration with Bangladesh Academy of Sciences.
- September 15-17, 2018 - Participated as organizer in " 6th South Asia Biosafety Conference"- held at Westin, Dhaka, Bangladesh and also presented poster entitled "Molecular characterization of Tomato Leaf Curl Virus Resistance in Wild Tomato (*Lycopersicon esculentum* Mill.) Germplasm of Bangladesh".

- April 6-7, 2018- Participated and presented two papers in “Annual Plant Tissue Culture and Biotechnology Conference 2017”, held in Bangladesh Sugar Crop Research Institute, Ishurdi, Pabna.
- February 3-4, 2018 - Participated as organizer and acted as Co-convenor of Seminar Presentation sub-committee in “Seventh International Botanical Conference”, held in the Department of Botany, University of Dhaka.
- January 27-29, 2018- Attended "10th Asian Federation of Biotechnology Regional Symposium, 2018" organized by AFOB Bangladesh Region & the Department of Microbiology, University of Dhaka
- December 29-30, 2017- Participated as organizer and acted as Co-convenor of Food and Entertainment sub-committee in “International Conference on Biotechnology in Health and Agriculture”, held at Senate building, University of Dhaka organized by Global Network of Bangladeshi Biotechnologists.
- October 18-19, 2017 - Attended in 5th national workshop on "Bioinformatics for Sustainable Development in Agriculture, Health and Environment" held at National Institute of Biotechnology.
- September 9-10, 2017 - Attended in "2nd International Symposium on Innovations in Plant and Food Sciences held in Geology/Biology Building, University of Saskatchewan and presented paper on "Developing Tomato leaf curl virus resistance in tomato".
- September 08, 2017 - Attended an international workshop on "CRISPR--cas9 mediated genome editing" held in National Research Council of Canada, Saskatoon.
- March 16-18, 2017- Attended in Third international South Asian Biotechnology conference and presented a paper entitled “Marker Assisted Identification of Tomato Leaf Curl Virus Resistant Local Tomato varieties” held in Hotel Himalaya, Kathmandu, Nepal.
- September 19-21, 2016 - Attended 4th Annual South Asia Biosafety Conference held in Hotel Taj Krishna, Hyderabad, India.
- June 14-15, 2016 - Participated in a Stakeholder Consultation meeting on “Finalization of Biosafety Documents” developed under the Implementation of National Biosafety Framework (INBF) project supported by UNEP-GEF- held at LGED-RDEC Auditorium, Agargaon, Dhaka.
- May 21-22, 2016 - Participated in the training workshop on " Biosafety and Biosecurity in Biomedical Research and Diagnostics"- held at the Centre for Advanced Research in Sciences, University of Dhaka, Bangladesh.
- October 18-19, 2015- Participated in the workshop on " Training for Compliance with International Publishing Standards"- held at Bangladesh Academy of Sciences, Dhaka, Bangladesh.
- September 19-20, 2015 - Participated as organizer in " South Asia Biosafety Conference"- held at BRAC Centre Inn, Mohakhali, Dhaka, Bangladesh.
- May 26-27, 2015 - Attended in Third international conference on “Advances in Bioinformatics, Biotechnology and Environmental Engineering” and presented a paper entitled “Molecular Diagnosis of Tomato Leaf Curl Virus Disease” organized by Institute of Research Engineers and Doctors at Birmingham, UK
- March 30-31, 2015 - Participated a training programme on "Biosafety Measures in Transgenic Crop” held at Bangladesh Agriculture Research Council (BARC), Dhaka.
- March 28, 2015- Participated as organizer and also presented one paper and one paper in “Annual plant Tissue Culture and Biotechnology Conference”, Department of Botany, University of Dhaka.
- January 9-10, 2015 - Participated as organizer and acted as Convenor of Food and Entertainment sub-committee in “Second ICBHA-GNOBB Conference”, held at Senate building, University of Dhaka.

- December 6-7, 2014 - Participated as organizer and acted as Co-convenor of Seminar Presentation sub-committee and also presented one paper in "Sixth International Botanical Conference", Department of Botany, University of Dhaka.
- November 22-23, 2014 - Oral presentation in Nepal Biotechnology conference "Molecular Characterization OF Tomato Leaf Curl Virus (ToLCV) isolates in Bangladesh" held at Kathmandu, Nepal.
- November 23, 2013 - participated in a the international workshop on Safety Assessment of Genetically Modified (GM) Crops jointly organized by ICRISAT, Hyderabad and BCIL, New Delhi at ICRISAT, Patancheru, Andhrapradesh, India.
- November 18-27, 2013 - Participated in a the international workshop on "Application of Genetic Engineering in Grain legumes and its Translation" held at ICRISAT, Patancheru, Andhrapradesh, India.
- June 24-29, 2013 - Participated a training and theoretical course on "Bioinformatics: Computer methods in molecular and system biology" held at International Centre for Genetic Engineering and Biotechnology, Trieste, Italy.
- October 6-14, 2012 - Attended the workshop on "Plant Genetic Transformation, *in situ* Hybridization and Bioinformatics" held at the department of Botany, University of Dhaka, Bangladesh organized by HEQEP funded project "Improvement of Teaching and Learning Facilities in the Department of Botany, University of Dhaka, CP-214".
- July 16-24, 2012 - Attended the workshop on "Genomics and Proteomics" held at the department of Botany, University of Dhaka, Bangladesh organized by HEQEP funded project "Improvement of Teaching and Learning Facilities in the Department of Botany, University of Dhaka, CP-214".
- December 12-14, 2010 - Participated and Presented a paper entitled "Cloning and Expression of Some Putative Sporulation Genes of *Mycobacteria* spp." in International Conference on "Bioiversity, Livelihood and Climate Change in the Himalayas" held in Kathmundu, Nepal.
- December 3-5, 2010 - Act as Convenor of Seminar Presentation sub-committee in "Sixth International Plant Tissue Culture and Biotechnology Conference", Department of Botany, University of Dhaka.
- July 16-20, 2010** - Participated Training workshop on " Safety Assessment of Foods Derived from Genetically Engineered Plants"- BRAC Centre Inn, Mohakhali, Dhaka, Bangladesh.
- January 16-18, 2009 - Participated and presented a paper entitled " Cloning and Expression of Some Putative Sporulation Genes of *Mycobacteria* spp." in "Fourth International Botanical Conference" held at Department of Botany, University of Dhaka, Bangladesh
- July 1-13, 2007 - Participated and Presented a paper entitled "**Construction of MYMIV based gene silencing vector and its use**" in International Summer School on Plant Molecular Biology held in Leibniz University of Hannover, Germany.
- May 9-28, 2007 - attended "International Agro & Biotechnology seminar for Bangladesh" Sponsored by Ministry of Commerce and organized by National Agro-tech Extension and Service Centre, China.
- December 11-13, 2006 - poster presentation entitled "Construction of MYMIV based gene silencing vector and its use" in the Meeting on "Biotic and Abiotic Stress Responses in Plants", International Centre for Genetic Engineering and Biotechnology, New Delhi, India.
- May 4-5, 2006 - attended as delegate in the 10th Annual District Convention at Dhaka Sheraton Hotel Dhaka.
- March 9-10, 2006 - Participated and presented a paper entitled "Functional role of Replication protein A (RPA) in geminiviral DNA replication" in the BIOSPARK symposium organized by Dept. of Life Sciences, Jawahar Lal Nehru University, New Delhi, India.

December 4-6, 2004 - Oral presentation in “Fifth International Plant Tissue Culture and Biotechnology Conference”, Department of Botany, University of Dhaka- **Construction of MYMIV based gene silencing vector and its use- Mohammad Nurul Islam and Sunil Mukherjee**

October 14-16, 2004 - Poster presentation in **Indian Virology Symposium**, Indian Agricultural Research Institute New Delhi, India - **MYMIV-AC2 is a silencing suppressor *in planta*** - Mohammad Nurul Islam; Vikas Kumar and Sunil Mukherjee

HONORS AND AWARDS

- 2015 : Awarded ISRF fellowship for six month awarded by Centre for International Co-operation of Sciences (CICS), India
- 2008-2010 : Awarded fellowship for conducting two years post doctoral research at Department of Cell and Molecular Biology, Uppsala University, Sweden
- 2001-2005 : Aailed International fellowship from ICGEB to complete Ph.D.
- 1995-1999 : Dhaka University Merit Scholarship
- May 2000 : National Science and Technology fellowship from the Ministry of National Science, Information and technology, Government of Bangladesh during M.Sc. thesis
- 1992-1993 : Awarded Scholarship from the Government of Peoples Republic of Bangladesh for outstanding results in S.S.C examination

DISSERTATION

1. **Mohammad Nurul Islam** (2005; Ph.D Thesis) *Construction of MYMIV based gene silencing vector and its use*, Plant Molecular Biology group, International Centre for Genetic engineering and Biotechnology, New Delhi, India
2. **Mohammad Nurul Islam** (2000; M.Sc. Thesis) *Agrobacterium-mediated Genetic transformation of peanut (*Arachis hypogaea* L.)*, Plant Breeding and Biotechnology Lab, Department of Botany, University of Dhaka, Bangladesh.

PATENT

Mukherjee S. K. and Islam M. N. “*Development of a gene silencing vector based on MYMIV-A component*”. Priority date: 25 May 2006. Indian Application no: 1267/DEL/2006

RESEARCH EXPERIENCE

Plant Growth and Development: Development of various transgenic plants using *Agrobacterium tumefaciens* gene delivery method, tissue culture, screening of transgenics for GFP silenced lines, Transient and stable expression of GFP gene in plants.

DNA and RNA: Genomic DNA isolation, RNA isolation from Plant tissue, Gene mapping, Sub-cloning, mini-preps, PCR, RT-PCR, Sequencing, Library construction, Northern & Southern blots, Transformation

Protein: SDS-PAGE, western blots, Immunoprecipitation, Antibody purification, bacterial expression, ELISA, FACS analysis, In-vitro kinase assay, EMSA

Microscopy: Light microscopy, confocal microscopy

CURRENT RESEARCH ACTIVITIES

I am currently working on two research projects: **Development of Salinity tolerant Mungbean lines through seed priming using GA3 and Tomato Leaf Curl Virus resistant Tomato Plants using antiviral strategy and Molecular Breeding.**

Received grants from:

- 1) BARC-NAPT2 for "Molecular identification of the tomato leaf curl virus (ToLCV) resistant/tolerant tomato lines" CRG-451 (Duration 18 months)
- 2) The world Academy of Science, Trieste, Italy for "Post transcriptional gene silencing of ToLCV in transgenic tomato plants" (Duration 18months)
- 3) International Center for Genetic Engineering and Biotechnology, Triesty, Italy for the Development of Tomato Leaf Curl virus resistant Tomato using antiviral strategy (Duration 36months).
- 4) Ministry of Science and technology, GoB for the Development of Yellow Mosaic virus resistant Mungbean lines through antiviral strategy (Duration 12months).
- 5) Received grants with small amounts from UGC, Bangladesh Four times (each for one year)

PROFESSIONAL ACTIVITIES

Life Member of Bangladesh Association for Plant Tissue Culture and Biotech.
EC Member and GS of Bangladesh Association for Plant Tissue Culture and Biotech.
Member editorial board of Bangladesh Journal of Plant Tissue Culture and Biotech.
Life Member of Bangladesh Botanical Society
Life Member of Bangladesh Biosafety and Biosecurity Association
Life Member Global Network of Bangladeshi Biotechnologist (GNOBB)
EC member of GNOBB 2016-2019
Bangladesh Bioinformatics and Computational Biology Association
Member of Lions Club International Bangladesh, District 315 B3

PERSONAL INFORMATIONS

Born on 11th April 1976 in Munshiganj, Bangladesh. I am married and blessed with sweet baby boy. I am very much interested to travel new and romantic places and in leisure time reading interesting articles with light music is my passion. Bengali is my mother tongue, I can communicate with English, Hindi fluently.

REFERENCES

1. Dr. Sunil K. Mukherjee (<i>my Ph.D Supervisor</i>) Assistant Scientist Plant Molecular Biology Group ICGEB, New Delhi-110067 e-mail: sunilm@icgeb.res.in Phone: +91-11-26181242	2 Dr. R. H. Sarker (<i>my M.Sc. Supervisor</i>) Professor Department of Botany University of Dhaka Dhaka-1000 e-mail: rhsarker2000@yahoo.co.uk Phone: +88-02-9661900-59 Ext 7538
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