

Dr. Md. Nasim Ali

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Scopus Author ID: 55262713800

Web of Science Researcher ID: C-4899-2015

Google Scholar Profile: <https://scholar.google.com/citations?user=bIX79a8AAAAJ&hl=en>

Research Gate Profile: https://www.researchgate.net/profile/Md_Nasim_Ali

SSRN profile: https://papers.ssrn.com/sol3/cf_dev/AbsByAuth.cfm?per_id=2535696

Date of Joining at BCKV: 03 November 2015



Birth: 03 August, 1978

PERSONAL DETAILS:

Father's Name: Md. Amin Ali

Mother's Name: Nurjahan Begum

Permanent address: Vill+ P.O. Sree Mayapur, Dist. Nadia, P.S. Nabadwip West Bengal.
Pin-741313

Address for correspondence: Department of Agricultural Biotechnology, Faculty of Agriculture, Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, Nadia, West Bengal - 741252, India.

ACADEMIC DETAILS:

- In 2007: Ph. D. (Ag.) in Genetics from Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, Nadia, W.B.
- In 2003: M. Sc. (Ag.) in Genetics from Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, Nadia, W.B.
- In 2001: B. Sc. (Ag.) from Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, Nadia, W.B.

PROFESSIONAL DETAILS:

- Worked as a Junior Scientist in Plant Tissue Culture & Biotechnology cell in West Bengal State Council of Science & Technology, Bikash Bhavan, Salt Lake, Kolkata-700091 from 26th December 2006 to 11 May 2007.
- Worked as Assistant Professor in Integrated Rural Development & Management faculty Centre of Ramakrishna Mission Vivekananda University, at Ramakrishna Mission Ashrama, Narendrapur, Kolkata-700103 from 12 May 2007 to 02 November 2015.
- Working as Associate Professor in the Department of Agricultural Biotechnology, Faculty of Agriculture, Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, Nadia from 03 November 2015 to till date.

RESEARCH INTEREST:

- Utilization of molecular marker in Crop Improvement
- Plant Tissue Culture
- Crop Improvement against biotic and abiotic stress
- Mutagenesis for Crop Improvement

ONGOING RESEARCH ACTIVITIES:

- Differential expression of genes due to salinity and related to fibre quality in jute.
- Terminal Heat tolerance in Wheat
- Applied mutagenesis for developing spine less and YVMV resistance in Okra
- Developing genetic and genomic resources in Lathyrus and Cashew

COURSES TAUGHT:

Undergraduate

| | | |
|----------------------|---|--|
| ABT-304 | : | Principles and Practices of Agricultural Biotechnology (1+1) |
| EC-366 | : | Micropropagation Technologies (1+2) |
| ELP-458 | : | Plant Tissue Culture (0+20) |
| Post Graduate | | |
| ABT-505 | : | Biotechnology Lab-I (0+3) |
| ABT-553 | : | Bioinformatics (2+1) |
| ABT-604 | : | Molecular Breeding (3+0) |
| ABT-602 | : | Biotechnology Lab-II (0+3) |
| ABT-701 | : | Advances in Molecular Biology (3+0) |
| ABT -751 | : | Advances in Crop Biotechnology (3+0) |
| ABT-752 | : | Advances in Functional Genomics and Proteomics (2+0) |
| ABT-699 | : | M. Sc. Seminar II (1+0) |
| ABT-849 | : | Ph. D. Seminar II (1+0) |

HONORS/ AWARDS/ RECOGNITION:

- Awarded National Scholarship in 1994.
- Qualified National Eligibility Test (NET), 2004 **in Genetics**.
- Qualified National Eligibility Test (NET), 2006 **in Plant Breeding**.
- Best Session Paper award: 7
- Recognized by International Accreditation Organization (USA) and awarded "Certified Faculty Member" in 2013.
- Received CWSS Young Scientist Award 2016 on the occasion of 12th Annual Conference of CWSS on 29 September 2016.
- Acting as Course Coordinator of DBT sponsored MSc teaching Programme in Agricultural Biotechnology at BCKV during 2017-20.
- Received CWSS Fellow Award 2019 on the occasion of International Seminar on "Agriskills for convergence in research industry & livelihood (ACRIL)" held on 28 November to 1st December, 2019 organized by CWSS, BCKV at FACC, BCKV, Kalyani, Nadia.
- Appointed as member of Board of Studies of M. Sc. in Agricultural Biotechnology and Medical Biotechnology in the Integrated Rural Development and Management

Faculty Centre of Ramakrishna Mission Vivekananda Educational and Research Institute (RKMVERI), Narendapur, Kolkata.

- x. Acting as Editor Journal of Crop and weed, a peer reviewed journal (ISSN: 09746315) since 2019 to till date.
- xi. Acting as Head of the Department, Department of Agricultural Biotechnology from 17-2-21 to till date

PH. D DISSERTATIONS SUPERVISED/ CO-SUPERVISED:

- **Awarded-** 04 and **On-going:** 05

M. SC. DISSERTATIONS SUPERVISED:

1. **M. SC. dissertations awarded-** 12

PROJECTS(ONGOING/ COMPLETED)

As Principal Investigator:

- I. Sustainable Agriculture with Low cost Technology (Phase-I-III) funded by Rural Technology Action Group-Eastern India (RuTAG-EI), IIT, Kharagpur during May 2008 to May 2011 (Project Cost: INR 2.09 lakh). **(COMPLETED)**
- II. “Efficacy of microbial pesticides and natural enemy to control pest in the farmers’ field” funded by Department of Science & Technology, Govt. of West Bengal from March, 2011 (Projec cost: INR 12.26 lakh). **(COMPLETED)**
- III. “Study on Bamboo *in vivo* and *In vitro* growing in South Bengal through Morphological and Molecular Approaches” jointly with West Bengal State Council of Science and Technology (WBSCST), under DST, WB from May 2012 (Projec cost: INR 26.98 lakh). **(COMPLETED)**

As CO-Principal Investigator:

- I. “Improved Quality of Rural Life through Scientific Management of Natural Resources” Funded by – Department of Science and Technology, Government of India for the period 2013-16 (Projcet Cost 22.04 lakhs). **(COMPLETED)**
- II. “Anti tumor efficacy of Black Tea Polyphenols” funded by National Tea Research Foundation, Kolkata for the period of 2014-2016 (28.09 Lakh) **(COMPLETED)**
- III. “In search of potential tumor marker” funded by Department of Science and Technology, Govt. of West Bengal, Kolkata for the period of 2014-2017 (18.46 lakh) **(COMPLETED)**
- IV. As research collaborator with NIRJAFT, ICAR supervising field experiment under the project entitled as ‘Development, application and techno-economic analysis of crop specific agro textiles’ at IRDM Faculty Centre. **(Completed)**
- V. “Applied mutagenesis to develop mutants possessing spine-less and YVMV resistant characters in Okra” funded by Department of Atomic Energy, Board of Research in Nuclear Science (BRNS), Govt. of India for three years w.e.f. 2018-19 (Sanctioned vie no. 35/14/28/2018-BRNS/10419 dated 01.06.2018) (Rs. 32,52,600) **(On GOING)**
- VI. Induced Mutation for resistance to spot blotch of wheat caused by *Bipolaris sorioikiniana*” funded by Department of Atomic Energy, Board of Research in Nuclear Science (BRNS), Govt. of India for three years w.e.f. 2020-21 (Sanctioned vide no. 55/14/13/2020-BRNS/10437 dated 24.01.2021 (Rs. 32,77,100) **(On GOING)**

Resource person

1. United Nations Economic and Social Commission for Asia and the Pacific UNESCAP
2. Agriculture Training Centre (ATC), Ramakrishna Mission Ashrama, Narendrapur.
3. State Agricultural Management and Extension Training Institute (SAMETI), West Bengal.
4. Central Research Institute for Jute and Allied Fibre, Barrackpore, North 24 Parganas, WB.
5. Jadavpur University, Kolkata
6. Institute of Agricultural Science, University of Calcutta, Kolkata.
7. Orissa University of Agriculture and Technology, Orissa.
8. Uttar Banga Krishi Viswavidyalaya, Coochbehar
9. Ramakrishna Mission Vivekananda Educational and Research Institute, Belur
10. Indira Gandhi Krishi Viswavidyalaya, Raipur.
11. College of Agriculture, Central Agricultural University, Imphal, Meghalaya
12. Sasya Shyamala Krishi Vigyan Kendra under Ramakrishna Mission Vivekananda Educational and Research Institute, Narendrapur, Kolkata
13. Krishi Vigyan Kendra, Gayeshpur, BCKV.
14. Anandadhara, Govt. of West Bengal, SIPRD, Kalyani

Life member

- The Indian Science Congress Association (ISCA)
- Association for Plant Breeding and Improvement (APBI)
- The Indian Natural Fibre Society (TINFS)
- The Crop and Weed Science Society (CWSS)
- Society for Application of Statistics in Agriculture and Allied Sciences (SASAA)-2016
- Indian Society of Genetics and Plant Breeding (ISGPB) 2018

PUBLICATIONS

BOOKS – 3

BOOK CHAPTERS- 14

BOOKLETS: 1

JOURNAL PUBLICATION: 79

PRACTICAL MANUALS FOR DIFFERENT UG & PG COURSES: 4

BEST FIVE BOOK CHAPTERS PUBLISHED

1. **Md. Nasim Ali**, S. Bhattacharyya and H. K. Sarkar. (2012). Nutritional diversity of some blackgram [*Vigna mungo* (L.) Hepper] genotypes of Indian origin. *In: Role of Biotechnology in Food Security and Climate Change*. Islam *et. al*(Eds). Proc. Sixth Intl. Plant Tissue Cult. & Biotech. Conf., December 3-5, 2010, Bangladesh Assoc. Plant Tissue Cult. & Biotech. Dhaka, Bangladesh. pp. 79-86.
2. **Ali, N.**, Chakraborty, S., Saha, P., Lodh, N. (2013). Improvement of vermicompost: Influence of feeding materials and inoculation of nitrogen fixing and phosphate solubilising bacteria. *In: S., Abdulhameed, & A. Augustine* (Eds.). *Prospects in Bioscience: Addressing the issues*. Springer Verlag, Berlin: 221-228

3. **Md. Nasim Ali**, Lucina Yeasmin, Vibha Singh and Bhaswati Ghosh. Morpho-biochemical and molecular markers for screening and assessing plant response to salinity. In: Gupta et. al. (eds) Engineering practices for management of soil salinity : agricultural, physiological, and adaptive approaches. Waretown, NJ : Apple Academic Press, Taylor & Francis. (2018) Pp. 257-283 (ISBN: 13: 978-1-351-17108-3 (eBOOK)/ ISBN: 13: 978-1-77188-676-5 (Hardcover) (<https://catalog.loc.gov/index.html>).
4. **Ali M.N.**, Ray S.S. (2018) Plant Tissue Culture as Potential Option in Developing Climate Resilient Spices. In: Sharangi A. (eds) Indian Spices. Springer, Cham, pp405-419. https://doi.org/10.1007/978-3-319-75016-3_15 (Online ISBN978-3-319-75016-3. Print ISBN978-3-319-75015-6)
5. **Lucina Yeasmin and Md. Nasim Ali** (2021) Molecular Markers in Bamboo Genotyping: Prospects for conservation and breeding. In: Z. Ahmed et. Al.,(eds) Biotechnological advances in Bamboo. Springer, Cham, pp 379-399. https://doi.org/10.1007/978-981-16-1310-4_16 (Online ISBN978-981-16-1310-4. Print ISBN978-981-16-1309-8)

TEN BEST RESEARCH PAPERS

1. Satya P, Paswan PK, Ghosh S, Majumder S and Ali Md. N (2016) Cofamiliar transferability of simple sequence repeat (SSR) markers from cotton (*Gossypium hirsutum* L.) and Jute (*Corchorus olitorius* L.) to twenty two malvaceous species. *3Biotech*, 6: 65. [NAAS: 8.41]
2. Gangopadhyaya M, Gantait S, Palchoudhury S, Ali Md. N, Mondal C and Pal AK (2016). UVC-priming mediated modulation of forskolin biosynthesis key genes against Macrophomina root rot of *Coleus forskohlii*—A tissue culture based sustainable approach, *Phytochemistry Letters* 17 (2016). [NAAS 7.46]
3. Gantait S, Kundu S, Yeasmin L and Ali Md. N (2017) Impact of differential levels of sodium alginate, calcium chloride and basal media on germination frequency of genetically true artificial seeds of *Rauvolfia serpentina* (L.) Benth. ex Kurz., *Journal of Applied Research on Medicinal and Aromatic Plants* 4:75-81. [NAAS 9.4]
4. Sinha Ray S, Ali Md. N, Mukherjee S, Chatterjee G and Banerjee M (2017) Elimination and molecular identification of endophytic bacterial contaminants during *in vitro* propagation of *Bambusa balcooa*. *World Journal of Microbiology and Biotechnology* 33:31. [NAAS: 8.48]
5. Paul S, Ali Md. N, Chakraborty S and Mukherjee S (2017) Diversity of bacterial communities inhabiting soil and groundwater of arsenic contaminated areas in West Bengal, India, *Microbiology* 86 (2): 264-275. [NAAS 7.16]
6. Kundu, S., Salma, U., Ali, Md. N., Hazra, A. K. and N. Mandal. (2018) Development of transgenic hairy roots and augmentation of secondary metabolites by precursor feeding in *Sphagneticolacalendulacea* (L.) Pruski. *Ind. Crops Prod.*, 121: 206-215. [NAAS: 10.24]
7. Salma, U., Kundu, S., Ali, Md. N. and Mandal, N. (2018) Augmentation of wedelolactone through *in vitro* tetraploid induction in *Ecliptaalba* (L.) Hassk. *Plant Cell Tiss. Organ Cult.*, 133:289–298. [NAAS:8.20]

8. Salma, U., Kundu, S., Ali, Md. N. and Mandal, N. (2018) Elicitor mediated enhancement of wedelolactone in cell suspension culture of *Ecliptaalba* (L.) Hassk. *Plant Cell Tiss. Organ Cult.*, 134: 409-421. [NAAS: 8.20].
9. Kundu, S., Salma, U., Ali, Md. N. and Mandal, N. (2018) Conservation, ex vitro direct regeneration, and genetic uniformity assessment of alginate-encapsulated nodal cuttings of *Sphagneticolacalendulacea* (L.) Pruski. *Acta Physiol. Plant.*, 40:53. [NAAS: 7.76]
10. Salma, U., Kundu, S., Ali, Md. N. and Mandal, N. (2019) Somatic embryogenesis-mediated plant regeneration of *Ecliptaalba*(L.) Hassk. and its conservation through synthetic seed technology. *Acta Physiol. Plant.*, 41:103 [NAAS: 7.76].

NCBI submission: Obtained accession number for 27 Sequences of 16S rDNA:

- Twelve Arsenic resistant bacteria: KT886455-56 (2 sequences); KT889354-62 (total 9 sequences) and KT921324- 26 (total 3 Sequences)
- Two Bacterial isolates from the infected *B. balcooa* during micropropagation: KX423734-35 (2 Sequences)
- Thirteen bacteria isolated from *Panchagavya*: KX395738-50 (total 13 sequences)

SEMINAR/SYMPOSIUM/WORKSHOP ATTENDED

1. International Level: 15
2. National Level: 20
3. State level: 4

WORKSHOP/ TRAINING ATTENDED

1. Training programme on “Conservation and evaluation of germplasm for higher yield and quality with special reference to jute and allied fibre” from 13-17 September, 2004 at CRIJAF, Barrackpore.
2. Training programme on “Protection of jute varieties and testing for distinctness, uniformity and stability” from 8-11 August, 2005 at CRIJAF, Barrackpore.
3. Training programme on “Analysis of Biopesticides for quality control” from 16-10-08 to 24-10-08 at the NPPTI, Hyderabad.
4. Training programme on “Mass production of biocontrol agents” from 17-11-08 to 25-11-08 at the PDBC, Bangalore.
5. Participated in a “National workshop on zero budget natural farming” organized by DCSS & Dept. of MSW under the aegis of Rahul Foundation during 10-13th March, 2011 at Rajbandh College, Durgapur, West Bengal.
6. Participated in ‘36th Orientation Programme’ organized by Academic Staff College, Jadavpur University , Salt Lake Campus during 11 July – 6 August , 2011.
7. Invited as resource person to attend SATNET Asia National Training Programme on “Cost benefit analysis of Agricultural technologies” during 25-27 November 2013 at Thimphu, Bhutan, Organized by Asia and Pacific Centre for Transfer of Technology (APCTT) under United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP), New Delhi and Council for RNR Research of Bhutan (CoRRB), Ministry of Agriculture and Forest (MoAF), Bhutan.

8. Invited as resource person to attend SATNET National Training Programme on “Best Practices in Integrated Nutrient Management and Jeevatu Based Cost-effective Organic Farming” during 23-25 April 2014 at Kathmandu, Nepal Organized by Asia and Pacific Centre for Transfer of Technology (APCTT) under United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP), New Delhi and Nepalese Farming Institute (NFI), Nepal.
9. Attended ICAR sponsored Winter School on 'Bioinformatics and its Emerging Dimensions in Agriculture' organized at Bioinformatics Centre, KAU during 12th January to 1st February, 2015.
10. Attended winter school training programme on “Development and Utilization of Genetic and Genomic resources through biotechnology for biotic, abiotic stress management and quality improvement in field crops” during 01-21 December 2016 at UAS, Dharwad, Karnataka, India.
11. Participated in the 7 days online workshop on “Gene cloning and its expression to produce genetically modified organism from 26 June to 02 July 2021 organized by Cytogene, Lucknow.

Declaration

To the best of my knowledge, I hereby declare that the statements in the resume are true.

Dated: 16-09-21, Kalyani, Nadia

(Md. Nasim Ali).