

RESUME

NAME: Dr. Md. Nasim Ali

DESIGNATION: Associate Professor

CONTACTS:

1. OFFICIAL ADDRESS FOR CORRESPONDENCE:

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4.ORCID ID: orcid.org/0000-0003-4899-3892

5.GOOGLE SCHOLAR

PROFILE:<https://scholar.google.com/citations?user=bIX79a8AAAAAJ&hl=en>

6.RESEARCHGATE PROFILE: https://www.researchgate.net/profile/Md_Nasim_Ali

7.DATE OF BIRTH: 03rd August 1978

8.DATE OF JOINING TO THE UNIVERSITY: 03rd November 2015



9. ACADEMIC PROFILE:

LEVEL	NAME OF THE DEGREE WITH DISCIPLINE/ DEPARTMENT	INSTITUTE	YEAR OF PASSING
DOCTORAL	Ph. D. (Ag.) in Genetics	BCKV	2007
MASTER'S	M. Sc. (Ag.) in Genetics	BCKV	2003
BACHELOR'S	B. Sc. (Ag.) Hons.	BCKV	2001

10. EMPLOYMENT HISTORY:

POSITION	ORGANIZATION	PERIOD	
		From (Date)	To (Date)
Associate Professor	BCKV, Nadia	03 rd November 2015	Till date
Assistant Professor	RKMVERI, Belur (erstwhile RKMVU)	12 th May 2007	2 nd November 2015
Junior Scientist	WBSCST (DST, WB)	26 th December 2006	11 th May 2007

11. ADMINISTRATIVE POST(S)/ RESPONSIBILIY(IES)

SL. NO.	NAME OF THE POST(S)/ RESPONSIBILITY(IES)	PERIOD	
		From (Date)	To (Date)
1.	Course Coordinator, DBT sponsored M. Sc. teaching Programme in Agricultural Biotechnology at BCKV.	14 th February 2017	31 st March 2020
2.	Head of the Department, Department of Agricultural Biotechnology	17 th February 2021	Continuing
3.	Member, BCKV Accreditation Committee	30 th November 2021	-
4.	Member, Annual Report Committee	30 th November 2021	Continuing

5.	Member, ICAR-Nodal Cell, BCKV	9 th December 2022	Continuing
6.	Coordinator, JRF and SRF coaching cell of The Module Plant Biotechnology	21 st December 2022	Continuing
7.	Member of Website Committee, BCKV	31 st May 2023	Continuing
8.	Secretary, Faculty Council, Faculty of Agriculture, BCKV	1 st June 2023	30 th November 2023
		1 st December 2023	Continuing

12. AREA OF RESEARCH :

- Utilization of molecular markers in Crop Improvement
- Enhancing Plant Secondary Metabolites through tissue culture
- Crop Improvement against biotic and abiotic stress
- Mutagenesis for Crop Improvement
- DNA Barcoding for Species identification
- Metagenomics and stress tolerance in Bacterial

13. COURSES ASSOCIATED WITH:

LEVEL	COURSE NO.	COURSE TITLE	CREDIT
UNDERGRADUATE	ABT-304	Principles and Practices of Agricultural Biotechnology	1+1
	EC-366	Micropropagation Technologies	1+2
POST GRADUATE	MBB-501	Principles of Biotechnology	3+0
	MBB-504	Techniques in Molecular Biology	0+3
	MBB-508	Introduction o Bioinformatics	2+1
	MBB-591	M. Sc. Seminar	0+1
Ph.D.	MBB-601	Plant Molecular Biology	3+0
	MBB-608	Computational and Statistical tools in Biotechnology	2+1
	MBB-691	Ph. D. Seminar I	0+1

14. NUMBER OF STUDENTS SUPERVISED:

Master's. 10 Doctoral: 07

15. RESOURCE PERSON FOR OTHER INSTITUTES

- Expert-Member of SATNET, UNESCAP under United Nations.
- Expert-member of ASRB-ICAR, New Delhi
- Expert-member of University of Science & Technology, Meghalaya.
- Member of Board of Studies, Dept of Agricultural Biotechnology, Ramakrishna Mission Vivekananda Educational and Research Institute, Belur
- Expert-member of B. R. Ahmedkar Institute for Panchayats and Rural Development, GoWB, Kalyani, Nadia
- Expert-member of ATC & SAMETI, Narendrapur.
- Expert-member of Nadia KVK, Gayeshpur, Nadia, BCKV.

16. LIFE MEMBERSHIP OF ACADEMIC SOCIETIES

- 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)
- Indian Society of Genetics and Plant Breeding (ISGPB)

17. PROJECT ACTIVITIES

SL. NO.	TITLE OF THE PROJECT	FUNDING AGENCY	ONGOING/ COMPLETED	PI/ Co-PI
1	Sustainable Agriculture with Low cost Technology (Phase-I-III)	Rural Technology Action Group-Eastern India (RuTAG-EI), IIT, Kharagpur	Completed	PI
2	Efficacy of microbial pesticides and natural enemy to control pest in the farmers' field	Department of Science & Technology, Govt. of West Bengal	Completed	PI
3	Study on Bamboo <i>in vivo</i> and <i>In vitro</i> growing in South Bengal through Morphological and Molecular Approaches	with West Bengal State Council of Science and Technology (WBSCST), under DST, WB	Completed	PI
4	Improved Quality of Rural Life through Scientific Management of Natural Resources	Department of Science and Technology, Government of India	Completed	Co-PI
5	Anti tumor efficacy of Black Tea Polyphenols"	National Tea Research Foundation	Completed	Co-PI
6	In search of potential tumor marker	Department of Science and Technology, Govt. of West Bengal	Completed	Co-PI
7	Applied mutagenesis to develop mutants possessing spine-less and YVMV resistant characters in Okra	Department of Atomic Energy, Board of Research in Nuclear Science (BRNS), Govt. of India	Completed	Co-PI
	Induced Mutation for resistance to spot blotch of wheat caused by Bipolaris oryzae	Department of Atomic Energy, Board of Research in Nuclear Science (BRNS), Govt. of India	Completed	Co-PI

18. CAPACITY BUILDING/FACULTY DEVELOPMENT PROGRAMME(ATTENDED)

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE
1.	Training on “Conservation and evaluation of germplasm for higher yield and quality with special reference to jute and allied fibre”	13-17 th September, 2004	CRIJAF, Barrackpore	Participant
2.	Training on “Analysis of Biopesticides for quality control”	16-24 th October 2008	NPPTI, Hyderabad.	Participant
3.	Training on “Mass production of biocontrol agents”	17- 25 th November 2008	PDBC, Bangalore	Participant
4.	36 th Orientation Programme’ organized by Academic Staff College, Jadavpur University	11 th July – 6 th August , 2011	Salt Lake Campus, Kolkata	Participant
5.	ICAR sponsored Winter School on 'Bioinformatics and its Emerging Dimensions in Agriculture'	12 th Janaury to 1 st February, 2015.	Kerala Agriculture University, Kerala	Participant
6.	ICAR sponsored 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”	01-21 st December 2016	UAS, Dharwad, Karnataka,	Participant
7.	Gene cloning and its expression to produce genetically modified organism	26 th June to 02 nd July 2021	Cytogene, Lucknow	Participant
8.	Two weeks capacity building programme organized by Department of Rural Development	31 st October 2022	University of Science & Technology Meghalaya	Resource person

19. SEMINAR/ SYMPOSIUM/ WORKSHOP etc**A. ORGANIZED**

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE
1.	One day seminar on ‘Food security and G.M. Crops’	30 th October 2013	RKMVU, Narendrapur	Organizing Secretary
2.	One day workshop to disseminate the knowledge and Experience of the DST (Govt. WB) -Funded project entitled as “Efficacy of microbial pesticides and natural enemy to control pest in the farmers’ field”	22 nd February 2014	Paruldah, South 24 Parganas	Organizing Secretary

3.	One day seminar on 'Food security and Sustainable Agriculture'	on 2 nd March 2014	RKMVU, Narendrapur	Member of Organizing committee
4.	Two days Annual Conference of Bengal Economic Association	21-22 nd March 2015	RKMVU, Narendrapur	Treasurer of Organizing committee
5.	Two days Workshop on BARC Initiative programme on "Rural Technologies for Entrepreneurship Development"	26-27 th March 2015	RKMVU, Narendrapur	Programme Coordinator
6.	National Seminar on "Resource based inclusive Agriculture and Rural Development: Opportunities and challenges"	15-16 th January 2016	RKMVU, Narendrapur	Member of organizing committee
7.	International Symposium on "Eco – Efficiency in Agriculture & Allied Research (EEAAR 17)"	20-23 rd January, 2017	FACC, BCKV, Kalyani	Member of organizing committee
8.	State level capacity building workshop on GM Crops and Biosafety	3 rd April, 2018	FACC, BCKV, Kalyani	Organizing secretary
9.	International Seminar on "Agriskills for convergence in research industry & livelihood (ACRIL)"	28 th November to 1 st December, 2019	FACC, BCKV, Kalyani, Nadia.	Member of organizing committee
10.	National Level workshop on Jute Production, Marketing and Utilization strategies	25 th February, 2021	FACC, Kalyani, Nadia	Member of organizing committee

B. ATTENDED

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE
1.	International Conference on "Environment And Development"	4-8 th February, 2004	Science City, Kolkata	Participant
2.	National Conference on "Plant, Microbes and Environment: Issues and Challenges"	20-21 st March, 2004	University of Burdwan	Participant
3.	National Seminar on "Recent Advances in Plant Sciences"	30-31 st March, 2004	Vidyasagar University	Participant
4.	14 th West Bengal State Science & Technology Congress	28 th February- 1 st March, 2007	Jadavpur University	Participant
5.	National seminar on 'Legumes for Ecological Sustainability: Emergenging Challenges and opportunities'	03-5 th November, 2007	Kanpur, Uttar Pradesh	Participant
6.	National Conference on "Plant Sciences: Diversity, Products and Environmental Planning"	11-12 th October, 2009	Marwari College, Ranchi	Participant
7.	National Seminar on 'Earthworm Ecology and Environment & IX National Symposium on Soil Biology and Ecology'	21-23 rd November. 2009	IAS, Visva-Bharati	Participant
8.	6 th International Plant Tissue Culture & Biotechnology Conference	3- 5 th December, 2010	University of Dhaka, Bangladesh.	Participant

9.	National Seminar on 'Integrated Rural Development and Management: Issues, Strategies and Policy option'	17-18 th December. 2010	IRDM, RKMVU	Participant
10.	International Symposium on "System Intensification towards Food and Environmental Security"	24-27 th February, 2011	FACC, BCKV	Participant
11.	18 th West Bengal State Science & Technology Congress held on Kolkata, W. B.	28 th February- 1 st March, 2011	RKM College Narendrapur,	Participant
12.	National Seminar on 'Approaches to maximizing crop productivity'	12-14 th January. 2012	IAS, Calcutta University	Participant
13.	National Seminar on 'Safe Food for all'	21-23 rd February, 2012	IAS, Visva-bharati	Participant
14.	State level seminar on 'Production & Management of Spices in WB'	1-2 nd March, 2012	FACC, BCKV	Participant
15.	International Conference on 'Advances in Biological Sciences'	15-17 th March, 2012	Kannur University, Kerala,	Participant
16.	Sate level conference on "Celebration of Hundred years of Science in India"	9-10 th January, 2013	Saha Institute of Nuclear Physics, Salt Lake, Kolkata	Participant
17.	International conference on "Bio-resources and stress management"	6-9 th February, 2013	Science City , Kolkata	Participant
18.	International Symposium on "Sustainable Rice Production and Livelihood Security : Challenges and Opportunities"	2-5 th March, 2013	CRRI, Cuttack	Participant
19.	National Conference on "Reprographic rights and Copyright act: Challenges and management"	7-8 th March, 2013	ISI, Kolkata,	Participant
20.	SATNET Asia National Training Programme on "Cost benefit analysis of Agricultural technologies" under UNESCAP	25-27 th November 2013	Thimphu, Bhutan	Resource person
21.	National Symposium on Sustainable Agriculture for Food and Nutritional Security in East and North East India: Prospect and Future"	1 st March, 2014	University of Calcutta	Participant
22.	Training programme on "Use of Plant Growth regulators in Agriculture"	27 th March 2014	ATC, RKM, Narendrapur	Resource person
23.	Training programme on "Microbial fertilizers and pesticides and organic Liquid manure"	16 th April 2014.	RKMVU, Belur	Resource person
24.	SATNET National Training Programme on "Best Practices in Integrated Nutrient Management and Jeevatu Based Cost-effective Organic Farming"	23-25 th April 2014	Kathmandu, Nepal	Resource person

25.	One day training programme on “Preparation and uses of Organic Liquid Manure in Agriculture under the Bio-village Development Programme”	8 th July 2014	Teurhat, South 24 Parganas	Resource person
26.	International Conference on “Natural Fibres”	1-3 rd August, 2014	Oberoi Grand, Kolkata	Participant
27.	Farmers’ Training on “Preparation and uses of Organic Liquid Manure in Agriculture”	22 nd October 2014	ATC, RKM, Narendrapur	Resource person
28.	“Importance of Organic Liquid Manure in Organic Agriculture”	23 rd October 2014	IAS, Calcutta University	Resource person
29.	International Seminar on “Integrating Agriculture & Allied Research: Prioritizing Future Potential for Secure Livelihoods (ASIAAR)”	6- 9 th November, 2014	FACC, BCKV	Participant
30.	National Symposium on “Evolving Plant Biology: From Chromosome to Genomics”	27- 29 th November, 2014	Institute of Culture, Golpark, Kolkata.	Participant
31.	Lectured on “Food Security and GM crops”	22 nd February 2015	RKM, Narendrapur	Resource person
32.	National Seminar on “Sustainable Agriculture for Food Security and Better Environment”	17-18 th December, 2015	FACC, BCKV	Participant
33.	National Seminar on “Resource based inclusive Agriculture and Rural Development: Opportunities and challenges”	15-16 th January 2016	RKMVU, Narendrapur	Participant & Rapporteur
34.	Lectured on Role of microbes in Agriculture and preparation and use of microbes	8 th February 2016	Ranaghat-II Block	Resource person
35.	National Seminar on Recent advances in Statistical tools for agriculture and allied sciences	3-5 th March, 2016	FACC, BCKV	Participant
36.	“Use of new varieties to improve crop production” in a farmers’	16 th March 2016	ICAR-CRIJAF, Barrackpore	Resource person
37.	International Seminar on “Recent Trends in Microbiology”	14 th January, 2017	Ramakrishna Mission Vidyamandi, Belur Math	Participant
38.	International Symposium on “Eco – Efficiency in Agriculture & Allied Research (EEAAR 17)”	20-23 rd January, 2017	FACC, BCKV,	Participant & Rapporteur
39.	National symposium on “Agriculture and food production today and tomorrow”	22-24 th , February, 2017	IAS, University of Calcutta	Participant
40.	National seminar on “Maximizing Fertilizer Use Efficiency and Environmental Health for Posterity”	08 th March, 2017	RKMVU, Narendrapur	Participant

41.	Banana Plant Tissue Culture	26 th May 2017	Kolkata.	Resource person
42.	Refresher training Course on “Improved technologies for Sustainable Agriculture: Prospect, Opportunities and challenges”	15 th February 2018	RKMVERI, Narendrapur, Kolkata	Resource person
43.	National seminar on “Agri-chemicals for a benign environment”	29 th March, 2018	FACC, BCKV	Participant
44.	International Conference on “Advancement in Science & Technology (ICAST-2018)”	3-4 th September, 2018	Visva-Bharati, Santiniketan,	Participant
45.	National seminar on “Vegetables for livelihood and nutritional security under changing climate”	6-7 th December 2018	FACC, BCKV	Rapporteur
46.	Two day congress on “Science & technology induced innovation for sustainable development	17 th February 2019	Kolkata	Member of presidium
47.	International Conference on Recent Trend and Practices in Science, Technology, Management and Humanities for Sustainable Rural Development (STMH - 2019)	6 – 7 th September, 2019	University of Science and Technology Meghalaya.	Key note Speaker
48.	National Seminar on “Agro chemical inputs and its extension approaches towards food and Biosecurity: Prospects and challenges”	15-16 th November, 2019	SAMETI, Narendrapur, Kolkata	Co-chaired a session
49.	International Seminar on “Agriskills for convergence in research industry & livelihood (ACRIL)”	28 th November to 1 st December, 2019	FACC, BCKV	Participant
50.	National webinar on “Plant Biological Interventions for climate smart agriculture”	30 th July 2020	BAU, Sabour,	Participant
51.	Kosambi International Webinar series on Plant Genomics	31 st July to 2 nd August 2020	Pune.	Participant
52.	Webinar on “Molecular Breeding: Wheat Breeding as a model System”	27 th August, 2020	Jaipur	Participant
53.	National Webinar on “Crop Diversification: A way towards Nutritional Security”	26 th October, 2021.	Patna, Bihar	Participant
54.	International symposium on “Advances in Plant Biotechnology and Genome Editing”	8-10 th April, 2021	ICAR-IIAB, Ranchi	Participant

20. PATENTS/ HONOURS/ AWARDS/ RECOGNITION:

- Awarded National Scholarship in 1994.
- Qualified National Eligibility Test (NET), 2004 in Genetics.
- Qualified National Eligibility Test (NET), 2006 in Plant Breeding.
- Recognized by International Accreditation Organization (USA) and awarded “Certified Faculty Member” in 2013.

- Received CWSS Young Scientist Award 2016
- Received CWSS Fellow Award 2019
- Executive Editor, Journal of Crop and Weed (ISSN: 09746315) during 2019-2023

21. PUBLICATIONS

A. BOOKS

- Dasgupta, D., Mallick, A. K., Das, P. K., Goswami, R., Dutta, A. and Ali, N. (Eds.) (2012). Integrated Rural Development and Management: Issue, Strategies and Policy Options. Agrobios (India).
- Yeasmin, L. and Ali Md. N. (2014). Evaluation of Salt Tolerance in Paddy. LAMBERT Academic Publishing (Germany).
- Ali, Md. N. and Mandal N. 2018. Practical Manual on Principles and Practices of Agricultural Biotechnology (ABT 304). Faculty of Agriculture, BCKV.
- Ali, Md. N. and Mandal N. 2018. Practical Manual on Micropropagation Technologies (EC-366). Faculty of Agriculture, BCKV.
- Ali, Md. N. and Mandal N. 2018. Practical Manual on Bioinformatics (ABT553). Faculty of Agriculture, BCKV.
- Mandal, N. and Ali, Md. N. 2019. Practical Manual on Plant Tissue Culture and Genetic Transformation (ABT 551). Faculty of Agriculture, BCKV.
- Sharangi, A. B.; Ali, Md. N., and Sinharay, S. (2022). Botany and Breeding of spice crops. New India Publishing Agency, New Delhi.

B. BOOK CHAPTERS (Best 10)


- Ali *et al.* (2011). Transgenic Plants: Prospects and Controversies. In: Environmental Concerns, **Agrobios** (India).
- Ali *et al.* (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). **Bangladesh Assoc. Plant Tissue Cult. & Biotech.**, Bangladesh. pp. 79-86.
- Ali *et al.* (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**: pp. 221-228.
- Md. Nasim Ali. (2013). "Jute Biology". In D. Dasgupta (ed.) "Jute Development- Technological Interface between Tradition and Modernity. **Agrobios (India)**. pp: 13-16.
- Ali *et al.* (2013). Putting Vedic wisdom in practice: validation of *Panchagavya* as biostimulant in agriculture. In D. Dasgupta(ed.) "Food & Environmental Security- Imperatives of IKS". **Agrobios (India)**.pp: 123-128.
- Ali *et al.* (2014). "Role of Biodiversity in Development". In D. Dasgupta (ed.) "Frontiers of Rural Development for Developing Societies". **Agrobios (India)**. pp 177-182.
- Ali *et al.* (2018). 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**. Pp. 257-28.
- Ali Md. N. and Ray S.S. (2018) Plant Tissue Culture as Potential Option in Developing Climate Resilient Spices. In: Sharangi A. (eds) Indian Spices. **Springer, Cham**, pp 405-419.

- ix. Yeasmin, L. and Ali Md. N.(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.
- x. Ali Md. N. and Ray S.S. (2022). Synthetic seeds vis-à-vis cryopreservation: An efficient technique for long term storage of endangered medicinal plants. In: Sharangi A. and Peter, K. V. (eds) Medicinal Plants: Bioprospecting and Pharmacognosy. **Apple Academic Press, Taylor & Francis.**,pp 337-360.

C. RESEARCH PAPERS (Best 10)

- i. Chakraborty *et al.* (2014). Rapid Estimation of Compost Enzymatic Activity by Spectral Analysis Method Combined with Machine Learning. *Waste Management*, **34**: 623-631.(Elsevier, NAAS:14.10)
- ii. Ali *et al.* (2014). Screening of rice landraces for salinity tolerance at seedling stage through morphological and molecular markers. *Physiology and Molecular Biology of Plants*, DOI 10.1007/s12298-014-0250-6. (Springer, NAAS: 9.50)
- iii. Ali *et al.* (2014). Selection of Rice Genotypes for Salinity Tolerance through Morpho-biochemical Assessment. *Rice Science*, **21**(5): 288-298 (DOI: 10.1016/S1672-6308(13)60189-4). (Elsevier, NAAS :10.80)
- iv. Ray *et al.* (2017). Elimination and molecular identification of endophytic bacterial contaminants during in vitro propagation of *Bambusa balcooa*, *World Journal of Microbiology and Biotechnology*, **33**: 31, Doi 10.1007/s11274-016-2196-z. (Springer, NAAS 10.10)
- v. Gantait *et al.* (2017). Impact of differential levels of sodium alginate, calcium chloride and basal media on germination frequency of genetically true artificial seeds of *Rauvolfiaserpentina* (L.) Benth. ex Kurz., *Journal of Applied Research on Medicinal and Aromatic Plants*, **4**: 75-81. (<http://dx.doi.org/10.1016/j.jarmap.2017.01.005>). (Elsevier, NAAS: 9.90)
- vi. Salma *et al.* (2018). Elicitor mediated enhancement of wedelolactone in cell suspension culture of *Eclipta alba* (L.) Hassk. *Plant Cell, Tissue and Organ Culture*, DOI 10.1007/s11240-018-1431-8. (Springer, NAAS: 9.00).
- vii. Kundu *et al.* (2018). Development of transgenic hairy roots and augmentation of secondary metabolites by precursor feeding in *Sphagneticola calendulacea* (L.) Pruski, *Industrial Crops and Products*, **121**: 206-215.) (Elsevier, NAAS: 11.90).
- viii. Mukherjee *et al.* (2022). Microbiological properties of Beejamrit, an ancient Indian traditional knowledge, uncover a dynamic plant beneficial microbial network. *World Journal of Microbiology and Biotechnology*, **38**(7):111. (doi: 10.1007/s11274-022-03296-3). (Springer, NAAS 10.10)
- ix. Mukherjee *et al.* (2023). Revisiting the oldest manure of India, *Kunapajala*: Assessment of its animal waste recycling potential as a source of plant biostimulant. *Frontiers in Sustainable Food System*, **6**: 1073010. doi: 10.3389/fsufs.2022.1073010. (NAAS 10.70)
- x. Sarkar *et al.* (2023). Molecular characterization of vermicompost-derived IAA-releasing bacterial isolates and assessment of their impact on the root improvement of banana during primary hardening. *World Journal of Microbiology and Biotechnology*, **39**:351(<https://doi.org/10.1007/s11274-023-03809-8>). (Springer, NAAS 10.10)

Date: 06.05.2024


Signature with Date