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Birth: 03 August, 1978

PERSONAL DETAILS:

Father's Name: Md. Amin Ali
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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 26thDecember 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 RESEARCHACITIVITIES:

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

Award:

- Recognized by International Accreditation Organization (USA) and awarded "Certified Faculty Member" in 2013.
- Recipient of CWSS Young Scientist Award 2016 on the occasion of 12th Annual Conference of CWSS on 29 September 2016.
- Best Paper award in different National/ International level Platform: 7

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

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 withWest Bengal State Council of Science and Technology (WBSCST), under DST, WBfrom 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 anf Technology, Govt. of West Bengal, Kolkata for the period of 2014-2017 (18.46 lakh) **(COMPLETED)**

IV. "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)**

PUBLICATIONS

1. BOOKS

i. 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.* Udaipur: **Agrobios.**

ii. Lucina Yeasmin and Md. Nasim Ali. (**2014**). Evaluation of Salt Tolerance in Paddy. **LAMBERT Academic Publishing** (Germany).

2. BOOK CHAPTERS

i. 'Organic Farming: Need for pragmatic Approach' In: Farm Sector Development-Emerging Issues (D. Dasgupta Eds) Agrobios (India): **2011**, pp57-68. [ISBN No (10): 81-7754-394-6/ (13): 978-81-7754-394-0]

ii. 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. (**2012)** pp. 79-86.

iii. 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(**2013)**: 221-228

iv. 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)

v. Plant Tissue Culture as Potential Option in Developing Climate Resilient Spices. In: Sharangi A. (eds) Indian Spices. Springer, Cham,(**2018)** pp 405-419. https://doi.org/10.1007/978-3-319-75016-3_15 (Online ISBN978-3-319-75016-3. Print ISBN978-3-319-75015-6)

RESEARCH PAPERS

i. Diversity analysis by RAPD and ISSR markers among the selected mungbean [*Vigna radiata* (L.) Wilczek] genotypes. *Indian J. Genet*., **(2005).** 65 (3): 173-175.(ISSN:0019-5200) (http://www.indianjournals.com/ijor.aspx?target=ijor:ijgpb&volume=65&issue=3&article=003) (**NASS:6.41, IF: 0.41**)

ii. Variability, correlation and path coefficient analysis in some important traits of low land rice. *Crop Research*, **(2006).** 31 (1): 153-156. (ISSN: 0970-4884). (http://www.cropresearch.org/pages/crarchivevol31.no.1.htm) (**NASS:4.60**)

iii. Diversity among selected blackgram accessions on the basis of RAPD and ISSR markers. Indian *J. Genet*., **(2007).** 67(2):171-172. (ISSN: 0019-5200) (**NASS:6.41, IF: 0.41**) (http://www.indianjournals.com/ijor.aspx?target=ijor:ijgpb&volume=67&issue=2&article=016) (NASS rating 2015:6.19)

iv. Heterosis study for root characters in bread wheat [Triticum aestivum (L.) Thell] following embryo culture. *Agric. Biol. Res.,* **(2008).** 24 (2): 149-156 (ISSN: 0970-1970) (**NASS: 2.95**)

v. Genetic divergence analysis of panicle characters of *aman* rice (Oryza *sativa* L.), Mysore J. *Agric. Sci.,* **(2008).** 42 (3): 562-564. (ISSN: 0047-8539)(**NASS: 3.93**)

vi. Study of excised roots in rice (*Oryza sativa* L.). *Ad. Plant Sci.,* **(2009).** 22 (II): 381-382. (ISSN: 0970-3586). (**NASS:2.90**)

vii. Efficacy of In vitro root study technique in hexaploid wheat [*Triticum aestivum* (L.) Thell.]-A problem and prospect. *Ad. Plant Sci.,* **(2009).** 22 (II): 367-369. (ISSN: 0970-3586). (**NASS: 2.90**)

viii. A note on Heritability and Genetic Advance from F_2 to F_3 generation in tossa jute. *Indian Agric*., **(2010),** 54 (3 &4): 213-214. (ISSN: 0019-4336).(**NASS:4.11**)

ix. Establishment of a rapid multiplication protocol of *Coleus forskohlii* Briq. and *in vitro*conservation by reduced growth. *Indian Journal of Biotechnology* (**2011**). 10: 228-231. (ISSN: 0972-5849) (**IF: 037, NASS: 6.37**) (**NISCAIR**)

x. Isozyme diversity in selected leaf mutants of 'tossa' jute (*Corchorus olitorius* L.). *Indian Journal of Biotechnology* **(2012),** 11: 333-231. (ISSN: 0972-5849) (**IF: 037, NASS: 6.37**) (**NISCAIR**)

xi. Genetic Analysis of Population Structure using Peroxidase Gene (POG) and Phenylalanine Ammonia-lyase Gene (PALG) Based DNA Markers: A Case Study in Jute (Corchorus spp.) *Crop Science*, **(2013)** DOI: 10.2135/cropsci2013.08.0518; (ISSN: 0011-183X) (**IF:1.85, NASS:7.64**) **(Crop Science Society of America)**

xii. Moumita Gangopadhyay, Saikat Dewanjee, Kamelia Chakraborty, Mahammad Ali and Salil Gupta. Continued foliar herbivory by the red spider mite *Tetranychus macfarlenei* on *Plumbago zeylanica* severely reduces the levels of a medicinally important metabolite in the roots, *Journal of plant Interaction* **(2013**)., DOI: 10.1080/17429145.2013.865795 (ISSN: 1742-9145) **(IF:0.897, NASS: 7.66) (Taylor & Francis)**

xiii. Rapid Estimation of Compost Enzymatic Activity by Spectral Analysis Method Combined with Machine Learning. *Waste Management* **(2014),** 34: 623-631. (ISSN: 0956-053X) (**IF 4.72, NASS: 10.72**) **(Elsevier)**

xiv. Bamboo: an overview on its genetic diversity and characterization, *3Biotech* (**2014**) DOI 10.1007/s13205-014-0201-5. (ISSN: 2190-5738) (**IF: 1.50, NASS: 7.50**) (**Springer)**

xv. Genomic profile of the plants with pharmaceutical value. *3Biotech* (**2014**). DOI 10.1007/s13205-014-0218-9 (ISSN: 2190-5738) (**IF: 1.50, NASS: 7.50**) (**Springer)**

xvi. Screening of rice landraces for salinity tolerance at seedling stage through morphological and molecular markers. *Physiol Mol Biol Plants*, (**2014**) DOI 10.1007/s12298-014-0250-6. (ISSN:0971-5894) (**IF: 1.15, NASS: 7.15**) (**Springer**).

xvii. Selection of Rice Genotypes for Salinity Tolerance through Morpho-biochemical Assessment. Rice Science, (**2014**), 21(5): 288-298 (DOI: 10.1016/S1672-6308(13)60189-4) (ISSN: 1672-6308) (**IF; 1.52, NASS: 7.52**) (**Elsevier**).

xviii. Gibberellins: a multifaceted hormone in plant growth regulatory network. *Current Protein & Peptide Science*, (**2015**), 16(5) **DOI** : 10.2174/1389203716666150330125439 (ISSN: 1875-5550) [**IF: 2.70**] (**Bentham Science**).

xix. Synthetic seed production of medicinal plants: a review on influence of explants, encapsulation agent and matrix, *Acta Physiol. Plantarum*. (**2015**). 37: 98 (DOI 10.1007/s11738-015-1847-2) (ISSN: 1861-1664) (**IF: 1.44, NAAS: 7.44**) (**Springer**).

xx. Cofamiliar transferability of simple sequence repeat (SSR) markers from cotton (Gossypium hirsutam L.) and Jute (Corchorus olitorius L.) to twenty two malvaceous species . *3Biotech*, (**2016**) 6: 65. http://dx.doi:10.1007/s13205-016-0392-z. (ISSN: 2190-5738) (**IF: 1.50, NASS: 7.50**) (**Springer)**

xxi. UVC-priming mediated modulation of forskolin biosynthesis key genes against Macrophomina root rot of Coleus forskohlii—A tissue culture based sustainable approach, *Phytochemistry Letters* (**2016**). 17: 36-44 (http://dx.doi.org/10.1016/j.phytol.2016.06.007. (ISSN: 1874-3900) (**IF-1.58, NASS: 7.58**) (**Elsevier**)

xxii. Biotic Contamination and Possible Ways of Sterilization: A Review with Reference to Bamboo Micropropagation, *Brazilian Archives of Biology and Technology*, (**2016**). 59: e160485. http://dx.doi.org/10.190/1678-4324-2016160485. (ISSN: 1678-4324), (**IF-0.55, NAAS: 6.68**) (**Scopus Indexed**)

xxiii. Elimination and molecular identification of endophytic bacterial contaminants during in vitro propagation of Bambusa balcooa, *World Journal of Microbiology and*

Biotechnology, (**2017**). 33: 31, Doi 10.1007/s11274-016-2196-z. (ISSN: 1573-0972), (**IF: 2.10, NAAS: 8.10**) (**Springer**).

xxiv. 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, (**2017**).4:75-81. (http://dx.doi.org/10.1016/j.jarmap.2017.01.005, (ISSN: 2214-7861) (**Elsevier**)

xxv. Diversity of Bacterial Communities Inhabiting Soil and Groundwater of Arsenic Contaminated Areas in West Bengal, India, *Journal of Microbiology,* (**2017**), 86 (2): 264-275. http://dx.doi.org/10.1134/S0026261717020151) (ISSN: 0026-2617), **(IF-0.86, NAAS: 6.86)**, (**Springer**).

xxvi. Factors influencing large-scale micropropagation of Sphagneticola calendulacea (L.) Pruski and clonality assessment using RAPD and ISSR markers *In Vitro Cell. Dev. Biol.—Plant* (**2017**), 53 (3): 167-177. DOI 10.1007/s11627-017-9824-7. (ISSN 1054-5476), (**IF-1.02, NAAS: 7.06**), (**Springer**)

xxvii. Factors affecting macropropagation of bamboo with special reference to culm cuttings: a review update, *New Zealand Journal of Forestry Science* (**2017**), 47: 17 DOI 10.1186/s40490-017-0097-z. (ISSN: 1179-5395), (**IF-0.92, NAAS: 6.92**) (**Springer**)

xxviii. Augmentation of wedelolactone through in vitro tetraploid induction in *Eclipta alba* (L.) Hassk. *Plant Cell, Tissue and Organ Culture*, (**2018**) 133:289–298. DOI 10.1007/s11240-018-1381-1. (ISSN: 0167-6857), (**IF-2.00, NAAS:8.00**) (**Springer**),

xxix. Conservation, ex vitro direct regeneration, and genetic uniformity assessment of alginate-encapsulated nodal cuttings of Sphagneticola calendulacea (L.) Pruski, *Acta Physiologiae Plantarum* (**2018**) 40: 53 https://doi.org/10.1007/s11738-018-2633-8 (ISSN: 1861-1664) (**IF: 1.44, NAAS: 7.44**) (**Springer**).

xxx. Development of transgenic hairy roots and augmentation of secondary metabolites by precursor feeding in *Sphagneticola calendulacea* (L.) Pruski, *Industrial Crops and Products*, (**2018**), 121: 206-215, (ISSN: 0926-6690) (**IF: 3.18, NAAS: 9.85**) (**Elsevier**).

xxxi. Elicitor mediated enhancement of wedelolactone in cell suspension culture of Eclipta alba (L.) Hassk. *Plant Cell, Tissue and Organ Culture*, (**2018**), 134 (3): 409-421. DOI 10.1007/s11240-018-1431-8. (ISSN: 0167-6857) (**IF-2.00, NAAS:8.00**) (**Springer**),

xxxii. In vitro tetraploidization for the augmentation of wedelolactone in *Sphagneticola calendulacea* (L.) Pruski. *Acta Physiologiae Plantarum*, (**2018**). https://doi.org/10.1007/s11738-018-2786-5. (ISSN: 1861-1664) (**IF: 1.44, NAAS: 7.44**) (**Springer**).

xxxiii. **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)

Ph. D/ M. Sc. DISSERTATIONS SUPERVISED (Awarded)

i. Ph. D thesis: 3
ii. M. Sc.- 6

SEMINAR/SYMPOSIUM/WORKSHOP ATTENDED as on December 2018

i. International Level: 11;
ii. National Level: 16
iii. State Level: 4

WORKSHOP/ TRAINING/ CAPACITY BUILDING PROGRAMME ATTENDED as on December 2018

1. (a) Workshop: 2 (b). Training-4
   (c) Orientation Programme-1 (d) Winter School-2
2. Acted as resources person: International level- 2 and National level- many

REVIEWED FOR

i. African Journal of Biotechnology (ISSN 1684-5315).
ii. Journal of cereals and oilseeds (ISSN 2141-6591).
iii. Journal of Crop and weed, a peer reviewed journal (ISSN: 09746315).
iv. Natural Product Communications, (Impact Factor 1.24).
v. Agroforestry Systems (Impact Factor 1.373) an international Journal (Springer)
vi. Reviewed for Journal of Plant Research (Springer; Impact Factor 2.51)
vii. Reviewed for BMC- Plant Biology Journal (Springer; Impact Factor 3.81)
viii. Reviewed for National Academy of Sciences, Biological Science (NASB, Impact Factor: 0.394)
ix. Reviewed for Journal of Agroforestry Systems (AGFO) (Springer; Impact Factor 3.81)
x. Reviewed for Industrial Crops and Products (Elsevier; Impact Factor 3.18)
xi. Reviewed for Trees (Springer; Impact Factor 1.84)
xii. Acting as Editor Journal of Crop and weed, a peer reviewed journal (ISSN: 09746315).