Curriculum Vitae

Name: Dr. Syandan Sinha Ray

Permanent Address:
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A. Personal Information:

Date of Birth: 07.11.1988

Sex: Male

Nationality: Indian

Languages known and written: English, Hindi and Bengali

B. Academic Qualification:

Name of Exam	Year of Passing	University/ Board	Subject	% of marks / CGPA
Ph.D. (Thesis Submitted:2016 Thesis Awarded: 2017)	2017	Ramakrishna Mission Vivekananda University	Agricultural Biotechnology	-
M.Sc.	2012	Ramakrishna Mission Vivekananda University	Agricultural Biotechnology	7.79 out of 10
B. Sc. (H)	2010	The University of Burdwan	Biotechnology	65.5%
Higher secondary	2007	West Bengal Council of Higher Secondary Education		66.0 %
Secondary	2005	West Bengal Board of Secondary Education		77.25%

C. Qualified ICAR- National Eligibility Test-I (NET-I) in Agricultural Biotechnology conducted by Agricultural Scientists Recruitment Board, Indian Council of Agricultural Research (ICAR) on 2018.

D. Research Experience:

	Title of work/Project	Duration	Institution
1.	**Characterization of Jute retting microorganisms**.	February-August (2012)	Central Research Institution for Jute & Allied Fibres (CRIJAF), ICAR, Govt. Of India.
2.	**Study on Bamboo *in vivo* and *in vitro* growing in South Bengal through Morphological and Molecular Approaches** Funded by DST, Govt. of West Bengal	September, 2012- July, 2015.	IRDM Faculty Centre, School of Agriculture and Rural Development, Ramakrishna Mission Vivekananda University (RKMVU).

Publications:

a. Journals

1. **Ray, S.S.,** Ali, M.N., Banerjee, M., & Yeasmin, L. (2018). *In vitro* and *in vivo* assessment of Thidiazuron mediated micro-clones of *Dendrocalamus asper*, an ornamental bamboo species, *Journal of Crop and Weed*, *14(1): 151-157* (NAAS 2017: 5.28)
2. **Ray, S. S.,** Ali, M. N., Mukherjee, S., Chatterjee, G., & 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*(2), 31 (Impact Factor 2017:2.1).
3. **Ray, S. S.,** & Ali, M. N. (2017). Factors affecting macropropagation of bamboo with special reference to culm cuttings: a review update. *New Zealand Journal of Forestry Science*, *47*(1), 17. (Impact factor 2017:1.33).
4. Yeasmin, L., Ali, N., **Ray, S.S.,** & Kumari, P. (2017). Distribution, identification and genetic diversity among bamboo species: A phenomic approach, *Advances in Plants & Agriculture Research*, 7(2), 00251. doi: 10.15406/apar.2017.07.00251.
5. Ray, S. S., & Ali, N. (2017). Biotic Contamination and Possible Ways of Sterilization: A Review with Reference to Bamboo Micropropagation. *Brazilian Archives of Biology and Technology*, *60*. (NAAS 2016: 6.47)
6. **Ray, S. S.,** & Ali, M. N. (2016). Factors influencing micropropagation of bamboo species using nodal explants: A review. *Research Journal Of Pharmaceutical Biological And Chemical Sciences*, *7*(5), 2877-2889.
7. **Ray, S. S.,** & Ali, M. N. (2016). Evaluation of inexpensive bedding materials for culm cutting of *Bambusa Balcooa* Roxb. and its field performance. *Journal of Biotechnology and Biomaterials*, *6*(2). doi:10.4172/2155-952X.1000227

8. **Roy, S. S.,** Ali, M. N., Gantait, S., Chakraborty, S., & Banerjee, M. (2014). Tissue culture and biochemical characterization of important bamboos. *Research Journal of Agricultural Sciences*, *5*(2), 135-146. (NAAS 2017:4.54)

b. Book Chapter:

1. Ali, M. N., & **Ray, S. S.** (2018). Plant Tissue Culture as Potential Option in Developing Climate Resilient Spices. In *Indian Spices* (pp. 405-419). Springer, Cham.
2. Ali, M.N., Yeasmin, L., Chakraborty, S., **Sinharay, S**.and Paul, S.(2014). "Role of Biodiversity in Development" in D. Dasgupta (ed.) *Frontiers of Rural Development for Developing Societies*. Agrobios, Udaipur, India. pp 177-182.

c. Seminar/ Conference attended:

1. International: 2

"Genetic diversity of selected Mung bean Germplasm under salinity" in International conference on "Agriculture, Forestry, Horticulture, Aquaculture, Animal Sciences, Food technology, Biodiversity and Climate Change (AFHABEC-2014) organized by "KrishiSanskriti" on 30-31th August 2014 in New Delhi.

"In search of low cost bedding material for macropropagation of *Bambusa balcooa*" in 10th World Bamboo Congress organized by the World Bamboo Organization (WBO), Damyang, South Korea on September 17-22, 2015.

2. National level: 2

"Thidiazuron induced *in vitro* propagation of *Dendrocalamus asper* using Nodal Explant" in National seminar on *"*Resource Based Inclusive Agriculture and Rural Development: Oppurtunities and Challenges" organized by IRDM faculty centre, Ramakrishna Mission Vivekananda University in Collaboration with Association for plant breeding and Improvement (APBI), University of Calcutta on January 15-16, 2016.

"Characterization of Jute retting microorganisms" in National Symposium on sustainable Agriculture for food and Nutritional Security in East and North East India: Prospects and Future organized by Association For Plant Breeding and improvement (APBI), Institute of Agricultural Science, University of Calcutta and West Bengal Academy of Science and Technology (WAST) on March 01, 2014.

E. Technical Skills:

1. **Microbiological Skill:** Purification and Characterization of Microorganisms, Preparation of Biofertilizers, Biopesticides, Antibiotic assay on isolated microbes.

2. **Plant tissue culture Skill:**
   a. Micropropagation of Bananna (G9), Bamboo (*Dendrocalamus strictus and D. asper*, *Bambusa balcooa*), Sarpogandha (*Rauwolfia serpentine*), Ashwagandha (*Withinia somnifera)*, *Aloevera,* Brambhi(*Bacopa monnieri*).

   b. Hands on experience on Node culture, Shoot tip culture, Callus culture, Cell suspension culture, Anther culture, embryo culture.

3. **Molecular Biology:** Isolation and quantification of plant and microbial DNA and its analysis, PCR, 16SrDNA technology.

4. **Computer knowledge:** Basic: Microsoft Word, Excel, PowerPoint and Internet.
   Software for data analysis: SPSS, AGRES, GENRES

F. References:

Dr. Gautam Chatterjee, Assistant Professor IRDM Faculty Centre, School of Agriculture and Rural Development, Ramakrishna Mission Vivekananda Educational and Research Institute, Ramakrishna Mission Ashrama, Narendrapur, Kolkata-103. Email : gautamchatterjee84@gmail.com
Dr. Md. Nasim Ali, Associate Professor Department of Agricultural Biotechnology, Faculty of Agriculture, Bidhan Chandra KrishiViswavidyalaya, Mahanpur, Nadia, West Bengal. Email: nasimali2007@gmail.com

Declaration

I hereby declare that the details furnished above are true and correct to the best of my knowledge and belief. In case any information is found to be false or incorrect, my candidature is liable to be cancelled.

Date: 10.09.2018
Place: Kolkata