

RESUME

NAME: DR. SANJIT DEBNATH

DESIGNATION: ASSISTANT PROFESSOR

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1. OFFICIAL ADDRESS FOR CORRESPONDENCE:

ICAR-AICRP ON FRUITS, Directorate of Research, Bidhan Chandra
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ORCID ID: 0009-0002-6878-027X

4. GOOGLE SCHOLAR PROFILE: Nil

5. RESEARCHGATE PROFILE: sdbckv@gmail.com

6. DATE OF BIRTH: 15/08/1978

7. DATE OF JOINING TO THE UNIVERSITY: 20/02/2008

8. ACADEMIC PROFILE:

LEVEL	NAME OF THE DEGREE WITH DISCIPLINE/ DEPARTMENT	INSTITUTE	YEAR OF PASSING
DOCTORAL	Ph. D., Fruits & Orchard management (Fruit Science)	BCKV	2006
MASTER'S	M.Sc. (Horti), Fruits & Orchard management (Fruit Science)	BCKV	2000
BACHELOR'S	B. Sc. (Agri.) Hons.	BCKV	1998

9. EMPLOYMENT HISTORY: (Starting from present position)

POSITION	ORGANIZATION	PERIOD	
		From (Date)	To (Date)
Assistant Horticulturist	Food Processing Industries & Horticulture (F.P.I. & H), Govt. of West Bengal	13/01/2006	19/02/2008

10. ADMINISTRATIVE POST(S)/ RESPONSIBILITY(IES) (IF ANY)

SL. NO.	NAME OF THE POST(S)/ RESPONSIBILITY(IES)	PERIOD	
		From (Date)	To (Date)
1	Implementation of National Horticulture Mission (NHM) at NZP as Officer of F.P.I. & H.	Feb, 2006	Jan, 2007
2	D.D.O. of the Establishment of Mohitnagar Horticulture Research & Development farm, Jalpaiguri	Feb, 2007	Feb, 2008
3	District Horticulture Officer, Darjeeling (Addl. Charge)	Feb, 2007	Feb, 2008
4	Project Coordinator of Agri Export Zone (AEZ) for Pineapple (Jalpaiguri, Uttar Dinajpur, Siliguri subdivision of Darjeeling district & Cooch Behar) (Addl. Charge)	Feb, 2007	Feb, 2008

11. AREA OF RESEARCH : (Bulleted list)

- Agro-techniques of fruit crops
- Improvement of fruit crop (banana)
- Hydroponics

12. COURSES ASSOCIATED WITH:

LEVEL	COURSE NO.	COURSE TITLE	CREDIT
UNDERGRADUATE	Hort. 254	Breeding of fruits and plantation crops	2+1
	SEC (III) 163	Orchard floor management	0+2
	Hort. 357	Horticulture based integrated farming system	2+1
	Hort. 402	Production technology of subtropical and temperate fruit crops	3+1
POST GRADUATE	FSC-502	Subtropical and temperate fruit production	2+1
Ph.D.	FSC-607	Biodiversity and conservation of fruit crops	2+1

13. NUMBER OF STUDENTS SUPERVISED:

Master's: Supervised 14, Awarded 10

Doctoral: Supervised 9, Awarded 1

14. PROJECT ACTIVITIES

SL. NO.	TITLE OF THE PROJECT	FUNDING AGENCY	ONGOING/ COMPLETED	PI/ Co-PI
1	Indo-German R&D Project: Circular urban cultivation with re-usable textile growing substrate (CirCulTex)	IGSTC, Govt. of India	Completed	P.I.
2	Infrastructure Development for Fruit Crop Breeding and Multiplication Centre (FBMC)	NABARD (RIDF-XXIII)	Completed	P.I.
3	Scaling up banana processing for agro-industry and entrepreneurship in West Bengal	Agriculture Department, Govt. of West Bengal	Completed	P.I.
4	Boosting Bio-Plate Industry in West Bengal for Clean Environment and Entrepreneurship	RKVY	Completed	P.I.
5	Exploration of Banana Biodiversity and its Biotechnological Research in Nagaland	DBT	Completed	P.I.
6	R & D on banana fibre: Extraction, Value Addition and Handicrafts for Rural Economic & Environmental Security	RKVY	Completed	P.I.

15. CAPACITY BUILDING /FACULTY DEVELOPMENT PROGRAMME ORGANIZED

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE
1	Advanced banana production technology and banana fibre extraction	March 26, 2015	BCKV, Mohanpur	Organizing Secretary

16. SEMINAR/ SYMPOSIUM/ WORKSHOP etc. ORGANIZED

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE
1	Workshop (17 th Group Discussion) of ICAR-AICRP on Tropical Fruits	18-21 July, 2011	BCKV, Kalyani	To assist Organizing secretary (OIC)

17. PATENTS/ HONOURS/ AWARDS/ RECOGNITION (Bulleted list):

- Best Experiment In-Charge Award in Crop Improvement Session (Proc. of 7th GD (2019) of ICAR-AICRP on Fruits, page-67).
- Best Experiment In-Charge Award in Agro Techniques Session (Proc. of 8th GD (2021) of ICAR-AICRP on Fruits, page-73).

18. INTERNATIONAL COLLABORATIONS/ INVOLVEMENT, IF ANY (Bulleted list):

- CirCulTex Consortium:
The German Partner Institutes:
1. the German Institutes of Textile and Fiber Research, 73770 Denkendorf, Germany,
2. the University of Hohenheim (340B), Stuttgart, Germany and
3. the Eschler Textile GmbH, Balingen, Germany.
The Indian Partner Institutes:
1. the Bidhan Chandra Krishi Viswavidyala, West Bengal, India,
2. the Amity University Kolkata, West Bengal, India and
3. the Harimitti Agro Pvt. Ltd., Saltlake, West Bengal, India.

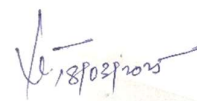
19. PUBLICATIONS

A. BOOKS

- Propagation and planting material for banana cultivation. Debnath, S., Bhattacharjee, A. and Saha T. (2020). In: Bananas and Plantains Leading-Edge Research & Development, Vol-I: Diversity, improvement & protection, Eds. S. Uma, S., Mayil, M. V. and Agrawal, A. Angkor Publishers (P) Ltd., Noida-201301, ISBN: 978-81-945318-0-7.
- Genetic diversity in banana. Debnath, S., Khan, A.A., Das, A., Murmu, I., Khan, A., and Mandal, K.K (2019). In- Genetic diversity in horticultural crops (ed. Nandwani, D.), Sustainable development and biodiversity, 22, Springer Nature Switzerland. pp. 217 – 244. ISSN: 2352-474X, 2352-4758 (electronic), 978-3-319-96454-6 (eBook), https://doi.org/10.1007/978-3-319-96454-6_8.
- Wax apple. In *Minor Fruits : Nutraceutical importance and cultivation*, Debnath, S. and Nandi, P. (2017). Part-III. Ghosh, S.N. (ed.). Jaya Publishing House, Delhi-110095, pp. 913-943.
- “SUSTAINABLE LITCHI CULTIVATION : Current CO₂ assimilation–tree water relations & nutrition programme optimization”, author Debnath, S., Mitra, S.K. and DuttaRay, S.K. Pages–216. LAP Lambert Academic Publishing GmbH & Co. KG, Saarbrücken, Germany, ISBN No. 978-3-659-71962-2.

B. RESEARCH PAPERS (Best 10)

1. Chatterjee, A., Ghosh, P., Winkler, B., Vijayaragavan, V., Debnath, S., Cichocki, J., Trenkner, M., Vanicela, B., Riethmueller, C., Walz, M., Chandra, S. and Pal, H. (2025). Demystifying the integration of hydroponics cultivation system reinforcing bioeconomy and sustainable agricultural growth. *Scientia Horticulturae*, 341: 1-15. (<https://doi.org/10.1016/j.scienta.2025.113973>) (NAAS 9.46)
2. Debnath, S., Jalawadi, S., Swain, S., Modi, P., Mendhe, A.R., Deka, B., Manju, P.R., Ramanadam, G., Panda, A., Uma, S. and Patil, P. (2024). Low-cost farmers' friendly technology for propagation of banana: a strategic seed system approach for banana cultivation in India. *Fruits*, 79 (1): 1-16. (NAAS 6.50)
3. Debnath, S., Bauri, F. K., Swain, S., Patel, A.N., Patel, A.R., Shaikh, N.B., Bhalerao, V.P., Baruah, K., Manju, P.R., Suma, A., Menon, R., Gutam, S. and Patil, P. (2021). Studies on high density planting and nutrient requirement of banana in different states of India. *Journal of Horticultural Sciences*, 16(2): 152-163 (NAAS 6.2)
4. Bhattacharjee, A. and Debnath, S. (2019). Evaluation of leguminous cover crop and banana bio-mat mulching for weed suppression and conservation of soil moisture and nutrient in guava orchard. *Journal of Crop and Weed*, 15(1): 170-177.
5. Debnath, S., Bauri, F.K., Bandyopadhyay, B., Misra, D.K., Mandal, K.K., Murmu, I. and Patil, P. (2015). Identification of optimum leaf area index (LAI) for high density planting of banana cv. Martaman under Gangetic Alluvium region of West Bengal, *Journal of Crop and Weed*, 11(2):63-66.
6. Debnath, S., DuttaRay, S. K. and Mitra, S. K. (2010). Leaf water potential and carbon dioxide assimilation influence flowering intensity and yield of litchi (*Litchi chinensis* Sonn.). *Acta Horticulturae*, 864 : 163-173.
7. Debnath, S. and Mitra, S. K. (2008). "Panicle bagging for maturity regulation, quality improvement and fruit borer management in litchi (*Litchi chinensis* Sonn.)". *Acta Horticulturae*, 773 : 201-208.
8. Debnath, S. and Mitra, S. K. (2006). Observation Point Technique (OPT) for root growth study in relation to nutrition management of litchi. *Indian Journal of Horticulture*, 63 (1) : 21-23.
9. Debnath, S., DuttaRay, S. K. and Mitra, S. K. (2006). Relationship of leaf position and CO₂ assimilation with fruit growth in litchi. *Indian Journal of Plant Physiology*, 11 (2) : 195-200.
10. Debnath, S., Mitra, S. K. and Maiti, B. (2006). "Managing fruit borer by cellophane paper bagging in litchi". *Indian Horticulture*, 51 (4) : 25-27.



Signature with Date