

: FACULTY DETAILED RESEARCH DATA:

Name of the Faculty: DR. SUPRABUDDHA KUNDU

Designation: Assistant Professor

Department: Agriculture

School: Agriculture

Research Area: Agricultural Biotechnology, Commercial Plant Tissue Culture, Mycorrhiza culture, Biostimulants, Molecular techniques and vermicomposting

Details of research portfolio of faculty:

A. Researcher's ID details:

Google Scholar ID: <https://scholar.google.com/citations?user=zUDk2Q8AAAAAJ&hl=en>

Orcid ID: 0000-0002-1229-227X

Scopus ID: 56608653000

Vidwan ID: <https://vidwan.inflibnet.ac.in/profile/270731>

B. Publication details:

1. Conference proceedings/ Conference paper:

Sl. No.	Name of the Conference	Title of the paper	Month & Year of Publication	Author(s) Name	National/ International	doi number (if any)	ISSN/ISBN no.
	N/A						

2. Publications in SCI/Scopus indexed Journals:

Sl. No	Name of the Journal (mention SCI/scopus)	Title of the paper	Month & Year of Publication	Author(s) Name (Highlight the corresponding and 1 st author in every article)	doi number	Issue No. & Volume No.	Page no.	ISSN of the journal
1	Journal of Survey in Fisheries Sciences (WoS/NAAS)	Vegetative Multiplication Of Psidium Guajava L. Through Stem Cutting	Aug, 2023	Tanmoy Sarkar, Sudip Sengupta, Suprabuddha Kundu, Kaushik Das	https://doi.org/10.5355/sfs.v10i1S.2310	10(1S)	7054-7056	2368-7487
2	Journal of Survey in	Ethyl Methanesulfonat	Aug, 2023	Umme Salma, Debadrita Giri, Mohit Kumar	https://doi.org/10.53555	10(1S)	6889-	2368-7487

	Fisheries Sciences (WoS/NAAS)	e (EMS)-Mediated Fruit Mutants Of Bitter Gourd (Meghna-2): A Popular Landrace Of West Bengal		Sinha, Suprabuddha Kundu	/sfs.v10i1S.2283		6894	
3	Journal of Survey in Fisheries Sciences (WoS/NAAS)	In vitro tetraploidization towards enhancement of charantin biosynthesis in Momordica charantia (L.)	Aug, 2023	Moonmoon Sarkar , Suprabuddha Kundu Umme Salma, Nirmal Mandal	https://doi.org/10.1016/j.jeenvman.2022.115531	10(1S)	6895-6902	2368-7487
4	Journal of Advances in Biology and Biotechnology (WoS/NAAS)	An Overview of the Importance of Biochar in Sustainable Agriculture	June, 2024	Emili Adak , Sonai Halder, Biresh Koley, Soumyajit Biswas, Sudip Sengupta , Suprabuddha Kundu and Tanmoy Sarkar	https://doi.org/10.9734/ijabb/2024/v27i6956	27 (6)	924-937	2394-1081
5	International Journal of Research in Agronomy (WoS/NAAS)	Site specific nutrient management: An overview	April, 2024	Biresh Koley , Sonai Halder, Soumyajit Biswas, Emili Adak, Sudip Sengupta , Suprabuddha Kundu and Tanmoy Sarkar	https://doi.org/10.33545/2618060X.2024.v7.i4Sb.563	7(4)	117-126	2618-060X
6	International Journal of Agriculture Extension and Social Development (WoS/NAAS)	Effect of vermicompost on soil quality and crop productivity	April, 2024	Akram Gazi , Ani Maity, Nabanita Khatua, Sudip Sengupta , Suprabuddha Kundu and Tanmoy Sarkar	https://doi.org/10.33545/26180723.2024.v7.i4Sa.517	7(4)	13-23	2618-0723
7	International Journal of Advanced Biochemistry Research (WoS/NAAS)	Biological nitrogen fixation: Reducing the N footprints of the environment	April, 2024	Krishnendu Roy , Kazi Nazimul Haque, Kousik Samanta, Rabindranath Acharya, Sahely Kanthal, Suprabuddha Kundu, Tanmoy Sarkar and Sudip Sengupta	10.33545/26174693.2024.v8.i4Sb.936	8(4)	133-137	2617-4693
8	International Journal of Research in Agronomy (WoS/NAAS)	Organophosphate Pesticide: Environmental impact and toxicity to organisms	April, 2024	Shreya Modak , Priya Ghosh, Supratim Mandal, Debasma Sasmal, Suprabuddha Kundu , Sudip Sengupta, Sahely Kanthal and Tanmoy Sarkar	https://doi.org/10.33545/2618060X.2024.v7.i4Sb.566	7(4)	138-141	2618-060X
9	International Journal of Research in Agronomy (WoS/NAAS)	Agroforestry: socio-economic impact and future aspect	April, 2024	Supratim Mandal , Debasma, Sasmal, Shreya Modak, Priya Ghosh, Suprabuddha	https://doi.org/10.33545/2618060X.2024.v7.i4S	7(4)	131-137	2618-060X

				Kundu, Sudip Sengupta, Sahely Kanthal and Tanmoy Sarkar	b.565			
10	International Journal of Agriculture Extension and Social Development (WoS/NAAS)	Prospect of nano-fertilizers in agriculture: An overview	April, 2024	Ankan Bakshi, Rimita Dutta, Suprabuddha Kundu, Sudip Sengupta, Sahely Kanthal and Tanmoy Sarkar	https://doi.org/10.33545/26180723.2024.v7.i4Sa.516	7(4)	8-12	2618-0723
11	International Journal of Research in Agronomy (WoS/NAAS)	Nutritional and pharmacological aspects of Trapa natans: An underutilized boon crop of West Bengal	April, 2024	Tanmoy Mondal, Tanmoy Sarkar, Sudip Sengupta and Suprabuddha Kundu	https://doi.org/10.33545/2618060X.2024.v7.i4b.522	7(4)	69-72	2618-060X
12	International Journal of Agriculture Extension and Social Development (WoS/NAAS)	Exploring the progress and techniques of cultivating oyster mushrooms: A comprehensive review	April, 2024	Rimita Dutta, Ankan Bakshi, Suprabuddha Kundu, Sudip Sengupta, Sahely Kanthal and Tanmoy Sarkar	https://doi.org/10.33545/26180723.2024.v7.i4b.511	7(4)	138-143	2618-0723
13	International Journal of Agriculture Extension and Social Development (WoS/NAAS)	Advance agriculture system using artificial intelligence: Way towards future farming	April, 2024	Vibhor Raj, Sudip Sengupta, Suprabuddha Kundu and Tanmoy Sarkar	https://doi.org/10.33545/26180723.2024.v7.i4a.498	7(4)	31-34	2618-0723
14	International Journal of Agriculture Extension and Social Development (WoS/NAAS)	Thidiazuron-mediated in vitro clonal propagation of Banana cultivar Grand Naine	April, 2024	Umme Salma, Suprabuddha Kundu, Nirmal Mandal, Debadrita Giri and Mohit Kumar Sinha	10.33545/26180723.2024.v7.i4Sb.533	7(4)	88-91	2618-0723
15	International Journal of Agriculture and Nutrition (WoS/NAAS)	Economic viability of tissue-cultured papaya plants for small-scale farmers	Sep, 2024	Milan Ghosh, Arup Samanta, Akram Gazi and Suprabuddha Kundu	https://doi.org/10.33545/26646064.2024.v6.i2b.187	6(2)	95-99	2664-6064
16	International Journal of Agriculture and Food Science (WoS/NAAS)	Impact of meristem culture on citrus breeding programs	Sep, 2024	Ayesha Khatun and Suprabuddha Kundu	https://doi.org/10.33545/2664844X.2024.v6.i2b.214	6(2)	117-120	2664-844X

3. Book chapter:

Sl. No.	Title of the book	Publishers	Author(s) Name (Highlight the corresponding and 1st	Year	ISBN No.	doi no. (if applicable)
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			author in every article)			
1	Book Modern Facets of Agriculture in India Chapter Enhancing the production of secondary metabolites in medicinal plants via hairy root culture using Agrobacterium	Department of Agriculture, Swami Vivekananda University Barrackpore	Suprabuddha Kundu	2023	978-93-5967- 754-5	-----
2	Book Agroforestry to Combat Global Challenges: Sustainable Development and Biodiversity Chapter Climate Change Mitigation Through Agro-Forestry Improves Natural Resource and Livelihood Security	Springer Nature Singapore Pte Ltd.	Tanmoy Sarkar, Sudip Sengupta, Sahely Kanthal & Suprabuddha Kundu	2024	978-981-99- 7281-4	https://doi.org/10.1007/978-981-99-7282-1_12
3	Book Innovations and Challenges in Modern Agriculture Chapter Artificial Polyploidy Induction for the Improvement of Medicinal Plants	Integrated Publications	Akram Gazi and Suprabuddha Kundu	2024	978-93-5834- 874-3	https://doi.org/10.62778/int.book.460
4	Book Harvesting Tomorrow: Innovations Redefining Agriculture Chapter Tissue Culture Techniques to Increase Secondary Metabolite Production in Plants	AkiNik Publications	Milan Ghosh and Suprabuddha Kundu	2024	978-93-6135- 113-6	https://doi.org/10.22271/ed.book.2965
5	Book Agriculture Re-imagined: Innovations and Strategies for Sustainable Growth Chapter Impact of Direct and Indirect Organogenesis in Agriculture	Bright Sky Publications	Amisha Singh and Suprabuddha Kundu	2024	978-93-6233- 556-2	https://doi.org/10.62906/bs.book.198
6	Book Emerging Trends in Sustainable Agriculture Chapter Biotechnological strategies to ameliorate secondary metabolites in medicinal plants	Department of Agriculture, Swami Vivekananda University Barrackpore	Suprabuddha Kundu	2024	978-93-340- 0372-7	-----
7	Book Resource Conservation A Way to foster the crop production Chapter	Department of Agriculture, Swami Vivekananda University Barrackpore	Umme Salma, Suprabuddha Kundu	2024	978-93-304- 3456-1	-----

	Cryopreservation: The future to conserve genetic resources					
8	Book Farming 5.0: The Digital Revolution Of Agriculture Chapter Blockchain to bioreactors: Digitizing transparency in agri-biotech supply chains	Department of Agriculture, Swami Vivekananda University Barrackpore	Suprabuddha Kundu	2025	9789334192537	_____
9	Book Cultivating the Future Strategies for Sustainable Agriculture Chapter From Lab to land: how biotech is reshaping agriculture	Department of Agriculture, Swami Vivekananda University Barrackpore	Suprabuddha Kundu	2025	9789334074154	_____
10	Book Frontiers in Agriculture: AI, Automation and the future of food Chapter The integration of Artificial Intelligence in biotechnological research	Department of Agriculture, Swami Vivekananda University Barrackpore	Suprabuddha Kundu	2025	9789334195347	_____
11	Book Nutrient Management Practices in Crops and Cropping System Chapter Bioengineered nitrogen fixation: revolutionizing nitrogen use efficiency in non legumes	Department of Agriculture, Swami Vivekananda University Barrackpore	Suprabuddha Kundu	2025	9789334196856	_____
12	Book Balancing Tradition and Innovation: Sustainable Strategies for Modern Farming Chapter Synthetic Seed: Future of Agriculture	Integrated Publications	Lipika Mondal and Suprabuddha Kundu	2025	978-93-5834-233-8	https://doi.org/10.62778/int.book.536
13	Book Cultivating Progress: New Frontiers in Agricultural Science and Technologies Chapter Anther Culture: Boon to Commercial Agriculture	AkiNik Publications	Ayesha Khatun and Suprabuddha Kundu	2025	978-93-6135-454-0	https://doi.org/10.22271/ed.book.3189

4. Text/Reference book published from reputed national/international publishers:

Sl. No.	Title of the Text/Reference book	Publishers	Author(s) Name (Highlight the corresponding and 1st author in every article)	Year	ISBN No.	doi no. (if applicable)
1	Modern Facets of Agriculture in India	Department of Agriculture, Swami Vivekananda University Barrackpore	Tanmoy Sarkar Suprabuddha Kundu Sudip Sengupta Avishek Chatterjee	2023	978-93-5967-754-5	—
2	Farming 5.0: The Digital Revolution Of Agriculture	Department of Agriculture, Swami Vivekananda University Barrackpore	Tanmoy Sarkar Sudip Sengupta Suprabuddha Kundu Ria Mukhopadhyay	2025	9789334192537	—
3	Cultivating the Future Strategies for Sustainable Agriculture	Department of Agriculture, Swami Vivekananda University Barrackpore	Tanmoy Sarkar Sudip Sengupta Suprabuddha Kundu Avishek Chatterjee	2025	9789334074154	—

5. Project granted:

Sl. No	Sponsoring Agency	Name of the project	Duration		Amount in Lakhs	PI/ CO-PI
			Starting Month & Year	Ending month & Year		
1	Seed Grant of Swami Vivekananda University	Disease free minituber production through integrated tissue culture-aeroponics technique for enhancing potato production in West Bengal	June, 2025	—	19.25	PI

6. Consultancy Project Grant:

Sl No.	Project title	Funding Agency	Duration	Completed (yes/no)	Sanctioned amount (in Rs.)	PI and CO-PI (if any)
	N/A					

7. Patent/IPR granted:

Sl. No.	Name of the patent	Name of the applicant	Name of the inventor	Date of File	Date of Publication	Whether Granted (yes/no); If yes, Date of Grant	Application No.
1	“Grow Sense Plant Support System”	Tanmoy Sarkar, Vibhor Raj, Sudip Sengupta, Suprabuddha Kundu, Abhishek Dhar, Saurabh Adhikari, Subhranil Som	Tanmoy Sarkar, Vibhor Raj, Sudip Sengupta, Suprabuddha Kundu, Abhishek Dhar, Saurabh Adhikari, Subhranil Som	10/04/2024	26/04/2024	No	202431029282