

: FACULTY DETAILED RESEARCH DATA:

Name of the Faculty: Dr. Ria Mukhopadhyay

Designation: Assistant Professor

Department: Agriculture

School: Agriculture

Research Area: Plant Pathology

Details of research portfolio of faculty:

A. Researcher's ID details:

Google Scholar ID: <https://scholar.google.com/citations?user=YZAvk00AAAAJ&hl=en>

Orcid ID: 0000-0002-9392-3335

Vidwan ID: 526050

B. Publication details:

1. Conference proceedings/ Conference paper: N.A.

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.
---------	------------------------	--------------------	-----------------------------	----------------	-------------------------	---------------------	---------------

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.	Plant Pathology (Scopus)	Climate change and plant pathogens: Understanding dynamics, risks and mitigation strategies	November, 2024	Deepak Kumar, Ria Mukhopadhyay	https://doi.org/10.1111/pa.14033	74, 1	59-68	1365-3059

2.	Plant Physiology and Biochemistry (Scopus)	Identification of genes associated to β -N oxalyl- L- α , β -diaminopropionic acid and their role in mitigating salt stress in a low-neurotoxin cultivar of <i>Lathyrus sativus</i>	February, 2024	Deepak Kumar , Riman Saha Chaudhury, Kajal Mandal, Prajjwal Pradhan, Sampurna Bhattacharya, Bimal Das, Ria Mukhopadhyay, Victor Phani, Kantamraju Prudveesh, Sahanob Nath, Rupsanatan Mandal, Priyanka Boro	10.1016/j.plaphy.2024.108388	207, 108388	1-16	1873-2690
3.	Journal of Plant Biochemistry and Biotechnology (Scopus)	Advances in the understanding of heat shock proteins and their functions in reducing abiotic stress in plants	December, 2024	Ria Mukhopadhyay , Priyanka Boro, Kapudeep Karmakar, Prajjwal Pradhan, Riman Saha Chowdhury, Bimal Das, Rupsanatan Mandal, Deepak Kumar	https://doi.org/10.1007/s13562-024-00895-z	33, 4	474-491	09717811
4.	Industrial Crops and Products (Scopus)	Turmeric (<i>Curcuma longa</i> L.) rhizome extract mediated silver nanoformulation exhibits enhanced antifungal property against <i>Rhizoctonia solani</i> and boosts innate immunity of rice	December, 2023	Swathi Chintala , Rosalin Laishram, Prithusayak Mondal, Kumaresh Pal, Prudveesh Kantamraju, Srinjoy Ghosh, Kapudeep Karmakar, Hillol Chakdar, Ria Mukhopadhyay, Ramkrishna Sen, Ashok Choudhury,	https://doi.org/10.1016/j.indcrop.2023.117616	206	117616	1872-633X

				Somnath Mandal, Nandita Sahana				
5.	International Journal of Advanced Biochemistry Research (UGC care /NAAS)	<i>Azadirachta indica</i> : A source of potential antibacterial activity against various bacterial strains	2024	Dipendu Ghosh , Bratati Mahapatra and Ria Mukhopadhyay	10.33545/26174693.2024.v8.i4Sa.929	8,4	48-50	2617-4707
6.	International journal of Research in Agronomy (UGC care /NAAS)	The warming world and it's impact on phytopathogens and insects	2024	Tamalika Kumari , Milan Ghosh and Ria Mukhopadhyay	10.33545/2618060X.2024.v7.i4Sb.534	7, 4	101-104	2618-060X
7.	International journal of Research in Agronomy (UGC care /NAAS)	A review on important diseases of rice in West Bengal	2024	Dipanjana Mondal , Sheikh Rameez Akhtar and Ria Mukhopadhyay	10.33545/2618060X.2024.v7.i4Sa.533	7, 4	67-70	2618-060X
8.	International journal of Research in Agronomy (UGC care /NAAS)	Zebra chip and purple top: An overview on two emerging diseases of potato	2024	Milan Ghosh , Tamalika Kumari, and Ria Mukhopadhyay	10.33545/2618060X.2024.v7.i4Sa.532	7, 4	63-66	2618-060X
9.	International Journal of Advanced Biochemistry Research (UGC care /NAAS)	Biocontrol potential of Trichoderma and Pseudomonas: A review	2024	Bratati Mahapatra , Dipendu Ghosh and Ria Mukhopadhyay	10.33545/26174693.2024.v8.i4Sb.933	8, 4	129-132	2617-4707
10.	Egyptian Journal of Biological Pest Control (Scopus)	Trichoderma: a beneficial antifungal agent and insights into its mechanism of biocontrol potential	2020	Ria Mukhopadhyay and Deepak Kumar	10.1186/s41938-020-00333-x	30	1-8	2536-9342
11.	Pharmaceutical Research (Scopus)	Gemcitabine Co-Encapsulated with Curcumin in Folate Decorated PLGA Nanoparticles; a Novel Approach to Treat	2020	Ria Mukhopadhyay , Ramkrishna Sen, Brahmachary Paul, Julekha Kazi, Shantanu	https://doi.org/10.1007/s11095-020-2758-5	37, 56	1-19	1573-904X

		Breast Adenocarcinoma		Somnath Mandal & Nandita Sahana				
12.	Biomedicine & Pharmacotherapy (Scopus)	Synthesis and characterization of copper nanoparticles stabilized with Quisqualis indica extract: Evaluation of its cytotoxicity and apoptosis in B16F10 melanoma cells	2018	Ria Mukhopadhyay , Julekha Kazi, Mita Chatterjee Debnath	https://doi.org/10.1016/j.biopha.2017.10.167	97	1373-1385	1950-6007
13.	Nanomedicine (Scopus)	Garcinol-loaded novel cationic nanoliposomes: in vitro and in vivo study against B16F10 melanoma tumor model	2019	Brahamachary Paul, Raghuvir H Gaonkar , Ria Mukhopadhyay, Shantanu Ganguly, Mita Chatterjee Debnath , & Biswajit Mukherjee	10.2217/nnm-2019-0022	14, 15	2045-2065	1743-5889
14.	PLOS One (Scopus)	Transcriptomic Profiling of Arabidopsis thaliana Mutant pad2.1 in Response to Combined Cold and Osmotic Stres	2015	Deepak Kumar , Riddhi Datta, Saptarshi Hazra, Asma Sultana, Ria Mukhopadhyay, Sharmila Chattopadhyay	10.1371/journal.pone.012690	10,3	1-23	1932-6203
15.	Plant Cell Tissue Organ Culture (Scopus)	Integrated transcriptomic and proteomic analysis of Arabidopsis thaliana exposed to glutathione unravels its role in plant defense	2014	Ragini Sinha , Deepak Kumar , Riddhi Datta, Saptarshi Hazra, Dipto Bhattacharyya, Aparupa Bose Mazumdar, Ria Mukhopadhyay, Asma Sultana, Sharmila Chattopadhyay	10.1007/s11240-014-0651-9	120, 3	975-988	1573-5044

16.	MedChemComm (Scopus)	Design of folate conjugated peptide linked nanoparticles loaded with 5-fluorouracil (5-FU), a potential new drug carrier for selective targeting of tumor cells	2019	Julekha Kazi, Ria Mukhopadhyay, Ramkrishna, Tarun Jha, Shantanu Ganguly and Mita Chatterjee Debnath	10.1039/C8MD00565F	10	2040-2503	-
17.	Journal of Botanical Society of Bengal	Isolation and selection of some antagonistic Trichoderma species from different new alluvial zones of Nadia district, West Bengal	2012	Ria Mukhopadhyay and Sitansu Pan	-	66, 2	157-160	0971-2976
18.	The Journal of Plant Protection Sciences	Effect of biopriming of radish (Raphanus sativus) seed with some antagonistic isolates of Trichoderma	December, 2012	Ria Mukhopadhyay and Sitansu Pan	-	4, 2	46-50	2249-7897

3. Book chapter:

Sl. No.	Title of the book	Publishers	Author(s) Name (Highlight the corresponding and 1 st author in every article)	Year	ISBN No.	doi no. (if applicable)
1.	Microplastic Pollution	Springer Nature Singapore	Ria Mukhopadhyay and Koushik Biswas	2024	978-981-99-8357-5	10.1007/978-981-99-8357-5_28
2.	Genomics Data Analysis for Crop Improvement	Springer Protocols Handbooks	Ria Mukhopadhyay, Sahanob Nath, Deepak Kumar, Nandita Sahana, and Somnath Mandal	2024	978-981-99-6913-5	10.1007/978-981-99-6913-5_14
3.	Nanozymes in Medicine	Springer Cham	Prithusayak Mondal, Somnath Mandal, Nandita Sahana, Victor Phani, Kapudeep Karmakar, Deepak Kumar, Ria Mukhopadhyay, and Goutam Kumar Pandit	2023	978-3-031-20581-1	10.1007/978-3-031-20581-1_5
4.	Agriculture Reimagined	Bright Sky	Abhinaba Samanta and Ria	2024	978-93-	https://doi.org/10.62

		Publications	Mukhopadhyay		6233-556-2	906/bs.book.198
5.	Harvesting Tomorrow Innovations Redefining Agriculture	Akinik Publications	Bratati Mahapatra and Ria Mukhopadhyay	2024	978 93 6135 113-6	https://doi.org/10.22271/ed.book.2965
6.	Innovations and Challenges in Modern Agriculture	Integrated Publications	Md Mohibullah and Ria Mukhopadhyay	2024	978 93 5834 874-3	https://doi.org/10.62778/int.book.460
7.	Nutrient Management Practices in Crops and Cropping System	Swami Vivekananda University	Ria Mukhopadhyay	2025	9789334- 196856	-
8.	Frontiers in Agriculture: AI, Automation and the future of food	Swami Vivekananda University	Ria Mukhopadhyay	2025	9789334- 195347	-
9.	Cultivating the Future Strategies for Sustainable Agriculture	Swami Vivekananda University	Ria Mukhopadhyay	2025	9789334- 074154	-
10.	Farming 5.0: The Digital Revolution Of Agriculture	Swami Vivekananda University	Ria Mukhopadhyay	2025	9789334- 192537	-
11.	Resource Conservation A Way to foster the crop production	Swami Vivekananda University	Ria Mukhopadhyay	2024	978-93- 340- 3456-1	-
12.	Modern Facets of Agriculture in India	Swami Vivekananda University	Ria Mukhopadhyay	2023	978-93- 5967- 754-5	-
13.	Emerging Trends in Sustainable Agriculture	Swami Vivekananda University	Ria Mukhopadhyay	2024	978-93- 340- 0372-7	-

a. 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 1 st author in every article)	Year	ISBN No.	doi no. (if applicable)
1.	Emerging Trends in Sustainable Agriculture	Swami Vivekananda	Ria Mukhopadhyay	2024	978-93-340-	-

		University			0372-7	
2.	Farming 5.0: The Digital Revolution Of Agriculture	Swami Vivekananda University	Ria Mukhopadhyay	2025	97893341-92537	
3.	A Concept Note on Bio-pesticides and Bio-fertilizers	Notion Press	Praveen Boddana, Ria Mukhopadhyay, Abhinandita Sahoo	2020	97816366-91398	

b. Project granted: N.A.

Sl. No	Sponsoring Agency	Name of the project	Duration		Amount in Lakhs	PI/ CO-PI
			Starting Month & Year	Ending month & Year		

c. Consultancy Project Grant: N.A.

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

d. Patent /IPR granted: N.A.

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.