

: FACULTY DETAILED RESEARCH DATA:

Name of the Faculty: Subham Dutta

Designation: Assistant Professor

Department: Agriculture

School: Agriculture

Research Area: Plant Pathology, Plant Virology, Molecular Biology, Virus Transmission Biology, Virus-Vector Interaction Dynamics, Molecular Diagnostics, 3D viral protein modeling.

Details of research portfolio of faculty:

A. Researcher's ID details:

Google Scholar ID: **if93VqwAAAAJ&hl**

Orchid ID: **0009-0006-6790-4284**

Scopus ID: **57840964200**

Vidwan ID: **648157**

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.
1	Biotic and Abiotic Stress of Crop Plants and their Sustainable Management, Viswabharati University, Bolpur, India	Identification and molecular characterization of two conserved motifs existing in coat protein gene (AV1) of Mungbean Yellow Mosaic India Virus (MYMIV) Burdwan isolate in blackgram (Vigna	December, 2023	Dutta, S. and Tarafdar, J.	International		978-93-94678-83-5

		mungo L. Hepper)					
2	Recent Developmental Trends in Biological Research, Acharya Prafulla Chandra College, North 24 parganas, Kolkata	Detection and in silico characterization of banana bunchy top virus (BBTV) in West Bengal	July, 2023	Dutta, S., Cakraborty, S. and Tarafdar, J.	International		978-81-9-62683-2-9
3	Holistic Approaches for Biotic and Abiotic Stress Management in crop for Sustainable Agriculture, Central Upland Rice Research Station (ICAR-NRRI), Hazaribag, Ranchi, India	In silico characterization of Mungbean yellow mosaic India virus (MYMIV) and its associate satellites infecting black gram in West Bengal : an in-depth analysis	November, 2024	Dutta, S. and Tarafdar, J.	National		978-93-94678-83-5
4	Climate change and plant diseases, Dr. Rajendra Prasad Central Agricultural University Pusa, Samastipur – Bihar, India	In silico characterization of coat protein and movement protein gene of Mungbean Yellow Mosaic India Virus (MYMIV) in blackgram (Vigna mungo L. Hepper)	February, 2024	Dutta, S. and Tarafdar, J.	National		-
5	7th Regional Science and Technology Congress in Biotechnology	Unravelling Mungbean Yellow Mosaic India	January, 2025	Dutta, S. and Tarafdar, J.	Regional		-

	Bidhan Chandra Krishi Viswavidyalaya, West Bengal, India	Virus (MYMIV) and its Satellite Complexes: 3D Structural Modelling and Functional Insights into Viral Pathogenesis					
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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	Ecological Genetics and Genomics	Unraveling the Molecular Response: Transcriptomics Analysis of Heat Shocked Bemisia tabaci (Asia II 5 Biotype)	July 2025	Ahmed, B. , Dutta, S., Atta, K. and Barman, M.	https://doi.org/10.1016/j.egg.2025.100386	36	100386	2405-9854
2	Plant Diseases	First report of Rhynchosia Yellow Mosaic virus (RhYMV) infecting butterfly pea (Clitoria ternatea) in	February, 2025	Dutta, S. , Chhandogi, S., Barman, M., Chakraborty, S., Ahmed, T., P. R. and Tarafdar, J.	doi.org/10.1094/PDIS-10-24-2175-PDN	109 (5)	1186	0191-2917

		India						
3	Australasian Plant Pathology	First report of Colletotrichum siamense causing leaf spot of Aloe vera (Aloe barbadensis Mill.) in India	February, 2025	Mukhopadhyay, A., Mukherjee, S., Dutta, S., & Mondal, G.	doi.org/10.1007/s13313-025-01020-x	54(2)	97-99	0815-3191
4	Scientific Reports	Exploring the physiological, biochemical, and enzymatic responses of Vigna mungo varieties to Mungbean Yellow Mosaic India Virus (MYMIV) infection.	January, 2025	Dutta, S., Saha, P., Barman, M., Poorvasandhya, R., Panda, M., Ahmed, T., Davis, T.W., Ahmed, B., Mudagadde G. Deeksha and Tarafdar, J.	doi.org/10.1038/s41598-024-84990-0	15 (1)	1049	2045-2322
5	European Journal of Plant Pathology	Evaluating the bioactivity of Trichoderma asperellum against Colletotrichum siamense and its growth-promoting effects on Aloe vera (Aloe barbadensis Mill.).	January 2025	Mukhopadhyay, A., Mukherjee, S., Dutta, S., Kanthal, S., & Mondal, G. (2025)	doi.org/10.1007/s10658-025-03001-8	172(2)	275-289	0929-1873
6	Journal of Root Crops	Comparison of amino acid sequence profiles and 3-D structure prediction of Coat Protein of Sweet potato feathery	August, 2023	Tarafdar, J., Chakraborty, S., Kumar, M., Adhikary, N., Das, S., & Dutta, S.	www.journal.isrc.in/index.php/jrc/article/view/656	49(2)	10-23	2454-9053

		mottle virus (SPFMV) reveal strain variation						
7	Virus Disease	Detection and in silico characterization of banana bunchy top virus in West Bengal, India: relevance to global genetic diversity and population structure	June, 2023	Chakraborty, S. , Dutta, S., Barman, M., Samanta, S., Sarkar, K. P., Poorvasandhya, R., & Tarafdar, J.	doi.org/10.1007/s13337-023-00815-0	34(2)	221-235	2347-3584
8	Frontiers in Physiology	Transcription dynamics of heat-shock proteins (Hsps) and endosymbiont titres in response to thermal stress in whitefly, Bemisia tabaci (Asia-I)	January, 2023	Barman, M. , Samanta, S., Ahmed, B., Dey, S., Chakraborty, S., Deeksha, M. G., Dutta, S., Tarafdar, J. and Roy, D.	doi.org/10.3389/fphys.2022.1097459	13	1097459	1664-042X
9	Sustainability	How did research on conservation agriculture evolve over the years? A bibliometric analysis	January, 2023	Bhattacharjee, S. , Panja, A., Panda, M., Dutta, S., Dutta, S., Kumar, R., and Rajput, V. D.	https://doi.org/10.3390/su15032040	15(3)	2040	2071-1050

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	Bacillus secondary metabolites and their applications in agriculture. In Bacterial Secondary Metabolites	Elsevier	Barman, M. , Shah, M. H., Samanta, S., Dutta, S., Panda, M., Thakur, H., and Islam, S.	2024	978-0-323-95251-4	
2	Characterization of begomoviruses and DNA satellites associated with tomato. In Geminivirus: Detection, Diagnosis and Management	Academic Press (Elsevier)	Chakraborty, S. , Dutta, S., Samanta, S., Das, S., Barman, M., and Tarafdar, J.	2022	978-0-323-90587-9	
3	Fusarium: An Endophyte for Disease Management		Poorvasandhya, R. , Sinha, B., Tarafdar, J., and Dutta, S.			

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 1 st author in every article)	Year	ISBN No.	doi no. (if applicable)

5. Project granted:

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

6. Consultancy Project Grant:

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

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.

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