

:FACULTY DETAILED RESEARCH DATA:

Name of the Faculty: Dr. Debjit De

Designation: Assistant Professor

Department: Department of Biotechnology

School: School of Life Sciences

Research Area: Metagenomics, Microbial Diversity, Host-microbiome Interaction, Gene Expression Analysis

Details of research portfolio of faculty:

A. Researcher's ID details:

Google Scholar ID: -j-7-_AAAAAJ&hl

Orchid ID: 0009-0004-7613-9241

Scopus ID: 7006062904

Vidwan ID: 500911

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.

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	Annals of Microbiology	Alteration of Rice Root Endophytic Bacterial Community Composition by Meloidogyne graminicola	December 2024	Pranamita Kunda ¹ , Sandip Mondal, Debjit De, Paltu Kumar Dhal* & Abhishek Mukherjee*	https://doi.org/10.1186/s13213-024-01789-0	Volume – 42	1-18	1869-2044

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
		and Identification of Potential Biocontrol Agent						
2	iScience	Prevised preterm birth in early pregnancy through vaginal microbiome signatures using metagenomics and dipstick assays	November, 2024	Daizee Talukdar ^{1,5} · Mousumi Sarkar ^{2,4,5} · Taruna Ahrodia ¹ · Shakti Kumar ¹ · Debjit De ² · Shankha Nath ² · Pradipta Jana ¹ · Jyoti Verma ¹ · Ojasvi Mehta ¹ · Akansha Kothidar ¹ · J.R. Yodhaanjalil · Komal Sharma ¹ · Susmita Bakshi ¹ · Upma Singh ¹ · Pallavi Kshetrapal ³ · Nitya Wadhwa ³ · Ramachandran Thiruvengadam ³ · Garbh-Ini study group ³ · G. Balakrish Nair ¹ · Shinjini Bhatnagar ³ · Souvik Mukherjee ^{2,4} · Bhabatosh Das	10.1016/j.isci.2024.111238	Volume: 27 Issue: 11	1 - 18	2589-0042
3	Journal of Advanced Zoology	Management Of Microbial Biofilm Using Nano Particle: A Review	November, 2023	Sulogna Mitra ¹ , Suranjana Sarkar, Debjit De, Semanti Ghosh, Bidisha Ghosh ² , Subhasis Sarkar *	https://doi.org/10.17762/jaz.v44iS6.2696	Issue: S-6 Year 2023 Volume: 44	2070 - 2080	0253-7214
4	Microbiology Spectrum	Upper respiratory tract microbiome profiles in SARS-CoV-2 Delta and Omicron infected patients	October, 2023	Shankha Nath ¹ , Mousumi Sarkar, Ankita Maddheshiya, Debjit De, Shouvik Paul, Souradeep Dey, Kuhu Pal, Suman Kr. Roy, Ayan Ghosh, Sharmila Sengupta,	10.1128/spectrum.02368-23	Issue: 6 Volume: 11	2368-23	2165-0497

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
		exhibit variant specific patterns and robust prediction of disease groups		Suman Kalyan Paine, Nidhan K. Biswas, Analabha Basu, Souvik Mukherjee*				
5	Frontiers in Microbiology	Insights of Host Physiological Parameters and Gut Microbiome of Indian Type 2 Diabetic Patients Visualized via Metagenomics and Machine Learning Approaches	July, 2022	Debjit De¹ ; Tilak Nayak; Subhankar Chowdhury; Paltu Kumar Dhal *	10.3389/fmicb.2022.914124	Volume: 13		1664-302X (e-ISSN)
6	Infection, Genetics and Evolution	The differences in SARS-CoV and SARS-CoV-2 specific co-expression network mediated biological process in human gut enterocytes	August, 2021	Tilak Nayak¹ ; Debjit De¹ ; Paltu Kumar Dhal *	10.1016/j.meegid.2021.104892	Volume: 92		1567-1348 (print); 1567-7257 (e-ISSN)
7	Frontiers in Environmental Science	Microbial communities of the drinking water with gradient radon concentration are primarily contributed	May, 2021	Tilak Nayak¹ ; Debjit De; Parimal Karmakar; Argha Deb; Paltu Kumar Dhal *	10.3389/fenvs.2021.576400	Volume: 9		2296-665X (e-ISSN)

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
		by radon and heavy metal content						
8	International Journal of Environmental Science and Technology	Characterization of indigenous bacteria from radon-rich groundwater and their tolerance to physicochemical stress	June, 2019	Tilak Nayak¹ ; Debjit De; Chiranjib Barman; Parimal Karmakar; Argha Deb; Paltu K. Dhal*	10.1007/s13762-019-02445-w	Volume: 17 Issue: 4	1627–1636	1735-1472 (print); 1735-2630 (e-ISSN)

3. Book chapter:

Sl. No.	Title of the book	Publishers	Author(s) Name (Highlight the corresponding (*) and 1 st author (¹) in every article)	Year	ISBN No.	doi no. (if applicable)
1	Frontiers In Biotechnology: Emerging Approaches And Strategies		1. Santanu Paul^{1*} , Debjit De, Priyankar Pal, Bidisha Ghosh 2. Priyankar Pal^{1*} , Debjit De, Rupesh Dutta Banik, Santanu Paul 3. Debjit De^{1*} , Priyankar Pal, Rupesh Dutta Banik, Santanu Paul	2023	978-93-5980-245-9	
2	Microbiome: Principles and Exploration		Rupesh Dutta Banik^{1*} , Debjit De, Priyankar Pal	2023	978-93-5980-246-6	
3	Interdisciplinary Review Articles Assisting as a Bridge between Research & Development	AkiNik Publications	Sudipta Chakaraborty¹ and Debjit De*	2024	978-93-6135-236-2	https://doi.org/10.22271/ed.book.2879
4	Microbes and Biotechnology: Real-World Applications	Integrated Publications TM	Susoma Garai¹ and Debjit De*	2024	978-93-5834-281-9	https://doi.org/10.62778/int.book.451
5	Microbial Biotechnology In Industry and Medicine	Bright Sky Publications	Koushik Bera¹ , Sabyasachi Ghosh, Debjit De*	2024	978-93-6233-478-7	https://doi.org/10.62906/bs.book.213
6	Biotech Miracles: Harnessing the Power of Microbes	Integrated Publications TM	Shanwoli Kanjilal¹ and Debjit De*	2024	978-93-5834-436-3	https://doi.org/10.62778/int.book.479
7	Articles from Different Disciplines that Serve as a Link between Research and Development	AkiNik Publications	Ranit Acharya¹ , Sagnik Sardar, Akash Saha, Debjit De*	2024	978-93-6135-406-9	https://doi.org/10.22271/ed.book.2993
8	Research Renaissance: Integration of Interdisciplinary Terrains	Notion Press Media Pvt. Ltd.	Bipasha Dey Sutradhar¹ , Semanti Ghosh* , Debjit De	2024	979-889588010-4	
9	Applications of Metagenomics	Academic Press (Elsevier)	Debjit De¹ ; Tilak Nayak; Gargi Das; Paltu Kumar Dhal*	2024	978-0-323-98394-5	10.1016/B978-0-323-98394-5.00009-2
10	Biobridges: Connecting Technology with the Future of Life	Integrated Publications TM	Mainak Barua¹ and Debjit De*	2025	Paper back ISBN: 978-93-5834-179-9 E-reader ISBN: 978-93-5834-976-4	https://doi.org/10.62778/int.book.535

Sl. No.	Title of the book	Publishers	Author(s) Name (Highlight the corresponding (*) and 1 st author (1) in every article)	Year	ISBN No.	doi no. (if applicable)
11	The Living Laboratory Biotechnology & Microbial Frontiers	AkiNik Publications	Anuska Biswas ¹ and Debjit De*	2025	Paperback ISBN: 978-93-6135-365-9 EBook ISBN: 978-93-6135-634-6	https://doi.org/10.22271/ed.book.3211
12	The Living World: Fundamentals of Life Sciences	AkiNik Publications	Anuska Laha ¹ and Debjit De*	2025	Paperback ISBN: 978-93-6135-585-1 EBook ISBN: 978-93-6135-276-8	https://doi.org/10.22271/ed.book.3190
13	Life at the Molecular Level: An Understanding of Biology	Bright Sky Publications	Sayantani Manna ¹ and Debjit De*	2025	Paperback ISBN: 978-93-6233-615-6 E-Book ISBN: 978-93-6233-647-7	https://doi.org/10.62906/bs.book.332
14	Blueprints of Life: Unlocking the Power of Modern Biotechnology	Penprints	1. Aditya Das ¹ , Ananyo Mazumdar, Debjit De* 2. Ananyo Mazumdar ¹ , Aditya Das, Debjit De* 3. Anuska Biswas ¹ , Debjit De* 4. Prakriti Patra ¹ , Debanjan Roy, Debjit De* 5. Saikat Manna ¹ , Debjit De* 6. Sanjukta Banerjee ¹ , Debjit De* 7. Sudipa Mukherjee ¹ , Debjit De* 8. Dipti Das ¹ , Keya Mondal ¹ , Aparna Chaudhuri, Sabyasachi Ghosh, Debjit De* 9. Keya Mandal ¹ , Dipti Das, Supriya Kumar Bose, Sabyasachi Ghosh, Debjit De* 10. Saheli Ghosh ¹ , Debjit De*	2025	978-81-988004-7-3	

Sl. No.	Title of the book	Publishers	Author(s) Name (Highlight the corresponding (*) and 1st author (1) in every article)	Year	ISBN No.	doi no. (if applicable)
			11. Anuska Laha¹, Debjit De*			

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)

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.
1	Biopesticide Composition	Swami Vivekananda University	Mr. Souradeep Banerjee Mr. Tuhin Mukherjee Ms. Tanya Das Ms. Mayisha Sultana Dr. Debjit De Mr. Saurabh Adhikari	12/03/2025	21/03/2025	No	202531022109 A

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