

FACULTY DETAILED RESEARCH DATA

Name of the Faculty: Suranjana Sarkar

Designation: Assistant Professor

Department: Microbiology

School: School of Life Sciences

Research Area: Drug Discovery

Details of research portfolio of faculty:

A. Researcher's ID details:

Google Scholar ID: s1k79xQAAAAJ

Orchid ID: 0009-0003-2800-1101

Scopus ID: 58740907700

Vidwan ID: 270484

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	ICALF 2023	Recombinant Hormones: Applications and Challenges	05-11-2023	Anwesha Das, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar, Suranjana Sarkar	International	https://doi.org/10.53555/jaz.v44iS6.3712	0253-7214
2	ICALF 2023	Exosomal RNA: Interplay and Therapeutic Potential	05-11-2023	Sayantani Chakraborty et al., Suranjana Sarkar	International	https://doi.org/10.53555/jaz.v44iS6.3718	0253-7214
3	ICALF 2023	Application of Genetic Engineering in Crop Improvement	05-11-2023	Prity Singh et al., Suranjana Sarkar	International	https://doi.org/10.53555/jaz.v44iS6.3717	0253-7214
4	ICALF 2023	Unraveling Cellular Heterogeneity: Insights from Single-Cell Omics Technologies	05-11-2023	Sulogna Mitra et al., Suranjana Sarkar	International	https://doi.org/10.53555/jaz.v44iS6.3716	0253-7214
5	ICALF 2023	Advancing Biomedical Frontiers: Unveiling the	05-11-2023	Sayani Das et al., Suranjana Sarkar	International	https://doi.org/10.53555/jaz.v44iS5.3210	0253-7214

		Potential of 3D Bioprinting in Organ Regeneration					
6	ICALF 2023	Unlocking the Potential of Phytochemicals in Anti-Diabetic Therapy	05-11-2023	Ankit Pal et al., Suranjana Sarkar	International	https://doi.org/10.53555/jaz.v44iS6.3713	0253-7214
7	ICALF 2023	Revolutionizing the Biological Landscape: The Power of Genome Editing	05-11-2023	Deeti Das et al., Suranjana Sarkar	International	https://doi.org/10.53555/jaz.v44iS5.3199	0253-7214
8	ICALF 2023	Genetic Basis and Clinical Perspectives of Breast Cancer	05-11-2023	Santanu Biswas et al., Suranjana Sarkar	International	https://doi.org/10.53555/jaz.v44iS6.3708	0253-7214
9	ICALF 2023	Microbial Plastic Degradation: Nature's Solution for Sustainable Waste Management	05-11-2023	Bidisha et al., Suranjana Sarkar	International	https://doi.org/10.53555/jaz.v44iS6.3720	0253-7214
10	ICALF 2023	Immunity Risk Associated with Cytomegalovirus Infection After Organ Transplantation	05-11-2023	Roy et al.	International	https://doi.org/10.53555/jaz.v44iS5.3202	0253-7214
11	ICALF 2023	Tuberculosis – A Multisystemic Disease and Antimicrobial Resistance in <i>M. tuberculosis</i>	05-11-2023	Tilatoma Dasgupta et al., Suranjana Sarkar	International	https://doi.org/10.53555/jaz.v44iS5.3304	0253-7214
12	ICALF 2023	Genetic Diagnosis of VEXAS Syndrome	05-11-2023	Srijani Karmakar et al., Suranjana Sarkar	International	https://doi.org/10.53555/jaz.v44iS5.3302	0253-7214
13	ICALF 2023	Biofertilizer and Their Importance in Sustainable Agriculture	05-11-2023	Sourav Banerjee et al., Suranjana Sarkar	International	https://doi.org/10.53555/jaz.v44iS5.3222	0253-7214
14	ICALF 2023	Water Reclamation Through Nano-remediation & Bioremediation	05-11-2023	N. Pal et al.	International	https://doi.org/10.53555/sfs.v10i1S.2141	2368-7487
15	ICSA 2023	The Key to a Sustainable Future – Algal Biofuel		Alivia Ghosh et al., Suranjana Sarkar	International	https://doi.org/10.53555/sfs.v10i1S.2154	0253-7214
16	ICSA 2023	Phytoremediation – Friendlier and Affordable Approach to Remediate Heavy Metal Pollution	Dec-23	Shirshendu Ghosh et al., Suranjana Sarkar	International	https://doi.org/10.53555/sfs.v10i1S.2140	0253-7214
17	ICSA 2023	Role of Plant Hormones on Root	Dec-23	Suman Sangita Nayak et al., Suranjana Sarkar	International	https://doi.org/10.53555/sfs.v10i1S.215	0253-7214

		Development					
18	ICSA 2023	Mycoremediation – The Promising Thread Between Present and Future	Dec-23	Suranjana Sarkar	International	https://doi.org/10.31632/ijalsr.2022.v05i02.005	2687-7937
19	ICALF 2023	Analysis of Pathogenic Genes in Dengue Virus	24-02-2024	Satabdi Dey et al., Suranjana Sarkar	International	10.22271/letters.2024.v4.i1a.84	P-ISSN: 2788-8428 / E-ISSN: 2788-8436
20	ICSA 2023	Assessment of Genome Stability of <i>pfl</i> FB Hybrid Generations Through Molecular DNA Markers	Dec-23	Suranjana Sarkar , Nilanjana Bag, Pijush Mallick	International	https://doi.org/10.53555/jaz.v44iS6.3712	2581-4877
21	ICSA 2023	Analytical Approach of micro-RNA Interaction Study in Ovarian Cancer	Dec-23	Ankita Sen et al., Suranjana Sarkar	International	https://doi.org/10.53555/sfs.v10i1S.2144	2368-7487
22	ICSA 2023	Structural and Functional Relationship Study in Plant Salinity Stress	Dec-23	Bipasha Chakraborty et al., Suranjana Sarkar	International	https://doi.org/10.53555/sfs.v10i1S.2145	2368-7487
23	ICSA 2023	Role of Pathogenesis-Related (PR) Proteins in Plant Microbes Defense Mechanism	Dec-23	Subhasri Dalalthakur et al., Suranjana Sarkar	International	https://doi.org/10.53555/sfs.v10i1S.2146	2368-7487
24	ICALF 2023	Scavenging of Waste Water Using Oyster Mushrooms	Dec-23	Noor et al.	International	—	2368
25	ICALF 2023	Study About the Absorption Pattern of Soil Chromium by Perennial Flowering Herbs	Dec-23	Saha et al.	International	—	2368
26	ICALF 2023	Phytoremediation: A Way Forward Towards Heavy Metal Management	Dec-23	Sarkar et al.	International	https://doi.org/10.53555/sfs.v10i1S.2152	2368-7487
27	ICALF 2023	Mycoremediation is a Potential Strategy for Environmental Clean-Up of Heavy Metal: A Review	Dec-23	Sarkar et al.	International	https://doi.org/10.53555/sfs.v10i1S.2143	2368-7487
28	ICALF 2023	Therapeutic Role of Probiotics in Managing Various Diseases	Dec-23	Sarkar et al.	International	https://doi.org/10.53555/sfs.v10i1S.2151	2368-7487

29	ICALF 2023	Phosphate Solubilizing Bacteria: A Potential Biotic Component for Solubilizing Phosphate in Soil and Its Application as Biofertilizer: A Review	Dec-23	Sarkar et al.	International	https://doi.org/10.53555/sfs.v10i1S.2142	2368-7487
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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	International Journal of Advancement in Life Sciences Research (IJALSR)	Assessment of genome stability of pflFB hybrid generations through molecular DNA markers	27-04-2022	Suranjana Sarkar, Nilanjana Bag, Pijush mallick	https://doi.org/10.31632/ijalsr.2022.v05i02	Volume 5 : Issue 2	1-15	25814877

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	Biodegradation of Toxic and Hazardous Chemicals Detection and Mineralization	Taylor & Francis	Suranjana Sarkar , Tina Basu , Subhamoy Banerjee , Ruchira Mukherjee	30 April 2024	9781003391494	10.1201/9781003391494
2	Radioactive Pollutant. Environmental Science and Engineering	Springer, Cham	Suranjana Sarkar , Bidisha Ghosh, Semanti Ghosh	11 December 2024	978-3-031-73796-1	https://doi.org/10.1007/978-3-031-73796-1_15
3	Innovative and Hybrid Technologies for Wastewater Treatment and Recycling	CRC Press	Bidisha Ghosh, Suranjana Sarkar , Semanti Ghosh	2024	9781003454199	https://doi.org/10.1201/9781003454199
4	Pioneering the Next Frontier: Innovative Approaches to Tackle Antibiotic Resistance	Swami Vivekananda University, Dept. of Biotechnology	Bidisha Ghosh, Subhasis Sarkar, Suranjana Sarkar , Semanti Ghosh	30-11-2023	9789361352362	
5	Pioneering the Next Frontier: Innovative Approaches to Tackle Antibiotic Resistance	Swami Vivekananda University, Dept. of Biotechnology	Bidisha Ghosh, Subhasis Sarkar, Suranjana Sarkar , Semanti Ghosh	30-11-2023	9789361352362	
6	Microbiome Principles and Explorations	Swami Vivekananda University, Dept. of Microbiology	Subhasis Sarkar, Bidisha Ghosh, Suranjana Sarkar , Semanti Ghosh	30-11-2023	978-93-5980-246-6	
7	Microbiome Principles and Explorations	Swami Vivekananda University, Dept. of Microbiology	Suranjana Sarkar , Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar	30-11-2023	978-93-5980-246-6	
8	Microbial Biotechnology in Industry and Medicine	Bright Sky Publications	Pratiksha Bhowmik, Subhasis Sarkar, Suranjana Sarkar and Bidisha Ghosh	14 November 2024	BN-10 : 936233478X BN-13 : 978-62334787	https://doi.org/10.62906/bs.book.213
9	Biotech Miracles: Harnessing the Power of Microbes	Integrated Publications	Diksha Adhikari, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar and Suranjana Sarkar	18 November 2024	78-93-5834-436-3 SBN-10 : 9358344369 SBN-13 : 978-358344363	https://doi.org/10.62778/int.book.479
10	Biotech Miracles: Harnessing the Power of Microbes	Integrated Publications	Jhilik Das, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar and Suranjana Sarkar	18 November 2024	78-93-5834-436-3 SBN-10 : 9358344369 SBN-13 : 978-	https://doi.org/10.62778/int.book.479

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11	Interdisciplinary Review Articles Assisting as a Bridge between Research & Development	AkiNik Publications	Prity Singh, Anwesha Das, Tiyaasha Saha, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar and Suranjana Sarkar	2024	78-93-6135-236-2	https://doi.org/10.22271/ed.book.2879
12	Interdisciplinary Review Articles Assisting as a Bridge between Research & Development	AkiNik Publications	Anushka Singh, Madiha Perween, Palak Bhardwaj, Priyanka Mandal, Riya Lama, Semanti Ghosh, Subhasis Sarkar, Suranjana Sarkar and Bidisha Gh	2024	78-93-6135-236-2	https://doi.org/10.22271/ed.book.2879
13	Interdisciplinary Review Articles Assisting as a Bridge between Research & Development	AkiNik Publications	Sulogna Mitra, Bidisha Ghosh, Suranjana Sarkar and Subhasis Sarkar	2024	78-93-6135-236-2	https://doi.org/10.22271/ed.book.2879
14	Interdisciplinary Review Articles Assisting as a Bridge between Research & Development	AkiNik Publications	Krittika Das, Soumashri Mondal, Suranjana Dhara, Aditi Das, Daizy and Semanti Ghosh	2024	78-93-6135-236-2	https://doi.org/10.22271/ed.book.2879
15	Microbes and Biotechnology: Real-World Applications	Integrated Publications	(Abu Jishan, Semanti Ghosh, Subhasis Sarkar, Suranjana Sarkar and Bidisha Ghosh)	2024	78-93-5834-281-9	https://doi.org/10.62778/int.book.451
16	Microbes and Biotechnology: Real-World Applications	Integrated Publications	(Santanu Mishra, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar and Suranjana Sarkar)	2024	78-93-5834-281-9	https://doi.org/10.62778/int.book.451
17	Microbes and Biotechnology: Real-World Applications	Integrated Publications	(Arpan Pattanayak, Bidisha Ghosh, Semanti Ghosh, Suranjana Sarkar and Subhasis Sarkar)	2024	978-93-5834-281-9	https://doi.org/10.62778/int.book.451
18	Articles from Different Disciplines that Serve as a Link between Research and Development	AkiNik Publications	Shrestha Mukherjee, Semanti Ghosh, Subhasis Sarkar, Suranjana Sarkar and Bidisha Ghosh	2024	78-93-6135-406-9	https://doi.org/10.22271/ed.book.2993
19	Articles from Different Disciplines that Serve as a Link between Research and Development	AkiNik Publications	Santanu Biswas, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar and Suranjana Sarkar	2024	78-93-6135-406-9	https://doi.org/10.22271/ed.book.2993
20	Articles from Different Disciplines that Serve as a Link between Research and Development	AkiNik Publications	Bidisha Ghosh, Ankit Pal, Semanti Ghosh, Subhasis Sarkar and Suranjana Sarkar	2024	78-93-6135-406-9	https://doi.org/10.22271/ed.book.2993
21	Articles from Different Disciplines that Serve as a Link between Research and Development	AkiNik Publications	Sayani Das, Bidisha Ghosh, Suranjana Sarkar and Subhasis Sarkar	2024	78-93-6135-406-9	https://doi.org/10.22271/ed.book.2993
22	Biotech Miracles: Harnessing the Power of Microbes	Integrated Publications	Diksha Adhikari, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar and Suranjana Sarkar	2024	78-93-5834-436-3	https://doi.org/10.62778/int.book.479

23	Biotech Miracles: Harnessing the Power of Microbes	Integrated Publications	Dipti Das, Tanisha Bhowmick, Swastika Dutta, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar and Suranjana Sarkar	2024	78-93-5834-436-3	https://doi.org/10.62778/int.book.479
24	Biotech Miracles: Harnessing the Power of Microbes	Integrated Publications	Anwesha Das, Prity Singh, Tiyasha Saha, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar and Suranjana Sarkar	2024	78-93-5834-436-3	https://doi.org/10.62778/int.book.479
25	Biotech Miracles: Harnessing the Power of Microbes	Integrated Publications	Shristi Dey, Bidisha Ghosh, Suranjana Sarkar , Semanti Ghosh and Subhasis Sarkar	2024	78-93-5834-436-3	https://doi.org/10.62778/int.book.479
26	Microbial Biotechnology in Industry and Medicine	Bright Sky Publications	Ankit Pal, Bidisha Ghosh, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar and Suranjana Sarkar)	2024	ISBN: 978-93-6233- 78-7	https://doi.org/10.62906/bs.book.213
27	Microbial Biotechnology in Industry and Medicine	Bright Sky Publications	Puja Sadhu, Bidisha Ghosh, Suranjana Sarkar , Semanti Ghosh and Subhasis Sarkar)	2024	ISBN: 978-93-6233- 78-7	https://doi.org/10.62906/bs.book.213
30	The Living World: Fundamentals of Life Sciences	AkiNik Publications	Madiha Perween, Subhasis Sarkar, Suranjana Sarkar and Bidisha Ghosh)	2025	78-93-6135-276-8	https://doi.org/10.22271/ed.book.3190
32	The Living World: Fundamentals of Life Sciences	AkiNik Publications	Ishani Das, Subhasis Sarkar, Suranjana Sarkar and Bidisha Ghosh	2025	78-93-6135-276-8	https://doi.org/10.22271/ed.book.3190
33	The Living World: Fundamentals of Life Sciences	AkiNik Publications	Shristi Dey, Bidisha Ghosh, Suranjana Sarkar and Subhasis Sarkar)	2025	78-93-6135-276-8	https://doi.org/10.22271/ed.book.3190
34	Book title Life at the Molecular Level an Understanding of Biology	Bright Sky Publications	Raju Bhunia, Raj Manna, Subhashis Sarkar, Suranjana Sarkar and Bidisha Ghosh	2025	78-93-6233-647-7	https://doi.org/10.62906/bs.book.332
35	Book title Life at the Molecular Level an Understanding of Biology	Bright Sky Publications	Priyanka Mandal, Bidisha Ghosh, Subhasis Sarkar and Suranjana Sarkar	2025	78-93-6233-647-7	https://doi.org/10.62906/bs.book.332
36	Book title Life at the Molecular Level an Understanding of Biology	Bright Sky Publications	Santanu Mishra, Bidisha Ghosh, Subhasis Sarkar and Suranjana Sarkar	2025	78-93-6233-647-7	https://doi.org/10.62906/bs.book.332
37	Book title Life at the Molecular Level an Understanding of Biology	Bright Sky Publications	Dipti Das, Tanisha Bhowmick, Tiyasha Saha, Priyajit Banerjee, Bidisha Ghosh, Subhasis Sarkar and Suranjana Sarkar	2025	78-93-6233-647-7	https://doi.org/10.62906/bs.book.332
38	Biobridges: Connecting Technology with the Future of Life	Integrated Publications	Sayan Mondal, Arunava Maity, Subhasis Sarkar, Suranjana Sarkar and Bidisha Ghosh	2025	78-93-5834-976-4	https://doi.org/10.62778/int.book.535
39	Biobridges: Connecting Technology with the Future of Life	Integrated Publications	Soumili Bakshi, Subhasis Sarkar, Suranjana Sarkar and Bidisha Ghosh	2025	78-93-5834-976-4	https://doi.org/10.62778/int.book.535

40	Biobridges: Connecting Technology with the Future of Life	Integrated Publications	Shristi Dey, Bidisha Ghosh, Suranjana Sarkar and Subhasis Sarkar	2025	78-93-5834-976-4	https://doi.org/10.62778/int.book.535
41	The Living Laboratory	AkiNik Publications	Abu Jishan, Subhasis Sarkar, Suranjana Sarkar and Bidisha Ghosh	2025	78-93-6135-634-6	https://doi.org/10.22271/ed.book.3211
42	The Living Laboratory	AkiNik Publications	Aritra Chatterjee, Sumita Mal, Priyajit Banerjee, Bidisha Ghosh, Subhasis Sarkar and Suranjana Sarkar	2025	78-93-6135-634-6	https://doi.org/10.22271/ed.book.3211
43	The Living Laboratory	AkiNik Publications	Chandan Das, Bidisha Ghosh, Suranjana Sarkar and Subhasis Sarkar)	2025	78-93-6135-634-6	https://doi.org/10.22271/ed.book.3211

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.
1	Herbal formulation-based lip balm	Sucheta Bhowmik, Debanjan Roy, Sounak Chakraborty, Suranjana Sarkar	NA	11/03/2025 ☐	28/03/2025 ☐	No	No.202531021920 ☐ A ☐
2	SYSTEMATIC APPROACH TO STUDY THE IMPACT OF BACTERIOPHAGE COCKTAILS AS ANTIBACTERIAL AGENTS IN CROP PROTECTION	1 . Dr ASHOK KUMAR 2 . Dr. T.V. SURESH KUMAR 3 . NITIN MISHRA 4 . Dr. C. KANDEEPAN 5 . Dr. SURENDRA KUMAR GAUTAM 6 . SUDHA S 7 . SURANJANA SARKAR 8 . D R K SAIKANTH 9 . R.K.M.HARISH KUMAR 10 . Dr VIJAY KUMAR SALVIA 11 . Dr.M.DHANANIVETHA 12 . MOHD ASIF SHAH	NA	05/01/2023	13/01/2023	No	202311001233