

### **: FACULTY DETAILED RESEARCH DATA:**

**Name of the Faculty:** Dr. Semanti Ghosh

**Designation:** Assistant Professor

**Department:** Biotechnology

**School:** Life Sciences

#### **Details of Research Area:**

Computational Biology & Structural Bioinformatics:

- Protein structure function relationship during abiotic stress of rice plant
- Gene expression study and computer-aided drug discovery against Dengue virus mediated fever
- Molecular insight study and molecular regulation of neurodegenerative diseases

#### **Details of research portfolio of faculty:**

##### **A. Researcher's ID details:**

Google Scholar ID: <https://scholar.google.com/citations?hl=en&user=y13o148AAAAJ>

Orchid ID: 0000-0001-8916-5159

Scopus ID: 55990430400

Vidwan ID: <https://vidwan.inflibnet.ac.in//profile/270777/MjcwNzc3>

**B. Publication details:**

**1. Conference proceedings/ Conference paper:**

<b>Sl. No.</b>	<b>Name of the Conference</b>	<b>Title of the paper</b>	<b>Month &amp; Year of Publication</b>	<b>Author(s) Name</b>	<b>National/ International</b>	<b>DOI number (if any)</b>	<b>ISSN/ ISBN no.</b>
1.	Proceedings of Second International Conference INDIA 2015, Volume 2	Intermolecular Interaction Study of Dissimilatory Sulfite Reductase (DsrAB) from Sulfur Oxidizing Proteobacteria <i>Allchromatium</i> <i>vinosum</i>	January 2015	<b>Semanti Ghosh and Angshuman Bagchi*</b>	International	DOI: <a href="https://doi.org/10.1007/978-81-322-2247-7_3">https://doi.org/10.1007/978-81-322-2247-7_3</a>	Print ISBN978-81- 322-2246-0 Online ISBN978-81- 322-2247-7

**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 1st author in every article)	DOI No.	Issue No. & Volume No.	Page No.	ISSN No.
1	Gene (SCI)	Hypoglycosylation of dystroglycan due to T192M mutation: a molecular insight behind the fact.	March, 2014	<b>Bhattacharya, S., Das, A., Ghosh, S., Dasgupta, R., &amp; Bagchi, A*</b>	DOI: <a href="https://doi.org/10.1016/j.gene.2013.11.071">https://doi.org/10.1016/j.gene.2013.11.071</a>	537(1)	108-114	Online ISSN: 1879-0038 Print ISSN: 0378-1119
2	Computational biology and chemistry (SCI)	Comparative analysis of the mechanisms of sulfur anion oxidation and reduction by dsr operon to maintain environmental sulfur balance	December, 2015	<b>Ghosh, S., &amp; Bagchi, A*</b>	<a href="https://doi.org/10.1016/j.compbiochem.2015.07.001">https://doi.org/10.1016/j.compbiochem.2015.07.001</a>	59	177-184	ISSN:1476-9271
3	Interdisciplinary Sciences: Computational Life Sciences (SCI and SCOPUS)	Molecular Interactions, Structural Transitions and Alterations in SoxB Protein Due to SoxYZ Interaction from Two Distinct $\beta$ -Proteobacteria: An In-silico Approach Towards the Thiosulfate Oxidation and Recycling of SoxY Protein.	November 2016	<b>Ray, S., Ghosh, S., &amp; Bagchi, A.*</b>	DOI: <a href="https://doi.org/10.1007/s12539-016-0199-y">https://doi.org/10.1007/s12539-016-0199-y</a>	10(2)	390-399.	Electronic ISSN 1867-1462 Print ISSN 1913-2751

4	Journal of Molecular Recognition (SCI and SCOPUS)	A structural perspective on the interactions of TRAF6 and Basigin during the onset of melanoma: A molecular dynamics simulation study.	June 2017	<b>Biswas, R.</b> , Ghosh, S., & Bagchi, A*	DOI: <a href="https://doi.org/10.1002/jmr.2643">https://doi.org/10.1002/jmr.2643</a>	30(11),	e2643	Online ISSN:1099-1352 Print ISSN:0952-3499
5	Biochemical and biophysical research communications (SCI and SCOPUS)	Structural study of the effects of mutations in proteins to identify the molecular basis of the loss of local structural fluidity leading to the onset of autoimmune diseases.	February 2017	<b>Ali, A.</b> , Ghosh, S., & Bagchi, A*	DOI: <a href="https://doi.org/10.1016/j.bbrc.2017.01.048">https://doi.org/10.1016/j.bbrc.2017.01.048</a>	484(1)	165-170	Online ISSN:1090-2104 Print ISSN:0006-291X
6	Chemistry Select (SCI and SCOPUS)	A Terminally Capped Synthetic, Acyclic Tripeptide Forms Dimer in the Solid, Liquid and Gaseous States.	March 2018	<b>Samui, S.</b> , Chakraborty, A., Biswas, S., Singh, G., Mondal, S., Ghosh, S., ... & <b>Naskar, J*</b>	DOI: <a href="https://doi.org/10.1002/slct.201702722">https://doi.org/10.1002/slct.201702722</a>	3(9)	2523 - 2527	ISSN: 23656549
7	International journal of biological macromolecules (SCI and SCOPUS)	Alanine substitution mutations in the DNA binding region of a global staphylococcal virulence regulator affect its structure, function, and stability.	July 2018	<b>Mandal, S.</b> , <b>Ghosh, S.</b> , Sinha, D., Seal, S., Mahapa, A., Polley, S., ... & <b>Sau, S.*</b>	<a href="https://doi.org/10.1016/j.ijbiomac.2018.03.045">https://doi.org/10.1016/j.ijbiomac.2018.03.045</a>	113	1221 - 1232 .	Print ISSN:0141-8130 Online ISSN:1879-0003

8	Journal of molecular modelling (SCI and SCOPUS)	Insight into the molecular mechanism of the sulfur oxidation process by reverse sulfite reductase (rSiR) from sulfur oxidizer <i>Allochromatium vinosum</i>	April 2018	<b>Ghosh, S., &amp; Bagchi, A.*</b>	<a href="https://doi.org/10.1007/s0894-018-3652-5">https://doi.org/10.1007/s0894-018-3652-5</a>	24(5)	117	<b>Electro nic</b> ISSN 0948-5023 <b>Print ISSN</b> 1610-2940
9	International journal of biological macromolecules (SCI and SCOPUS)	Dimerization ability, denaturation mechanism, and the stability of a staphylococcal phage repressor and its two domains.	March 2019	<b>Biswas, A., Ghosh, S., Sinha, D., Dutta, A., Seal, S., Bagchi, A., &amp; Sau, S*</b>	DOI: <a href="https://doi.org/10.1016/j.ijbiomac.2018.11.263">https://doi.org/10.1016/j.ijbiomac.2018.11.263</a>	124	903-914	Print ISSN: 0141-8130 Online ISSN: 1879-0003
10	Journal of molecular modelling (SCI and SCOPUS)	Structural study to analyze the DNA-binding properties of DsrC protein from the dsr operon of sulfur-oxidizing bacterium <i>Allochromatium vinosum</i>	February 2019	<b>Ghosh, S., &amp; Bagchi, A.*</b>	DOI: <a href="https://doi.org/10.1007/s0894-019-3945-3">https://doi.org/10.1007/s0894-019-3945-3</a>	25(3)	74	<b>Electro nic</b> ISSN 0948-5023 <b>Print ISSN</b> 1610-2940
11	Journal of Biomolecular Structure and Dynamics (SCI and SCOPUS)	Protein dynamics and molecular motions study in relation to molecular interactions between DsrAB and DsrC proteins from	May 2020	<b>Ghosh, S., &amp; Bagchi, A.*</b>	<a href="https://doi.org/10.1080/07391102.2020.1754914">https://doi.org/10.1080/07391102.2020.1754914</a>	39(8)	2771 – 2787	Journal ISSN: 0739-1102

		sulfur oxidizer proteobacteria						
12	International journal of biological macromolecules (SCI and SCOPUS)	Probing conformational transitions of PIN1 from <i>L. major</i> during chemical and thermal denaturation.	July 2020	<b>Biswas, G.</b> , Ghosh, S., Raghuraman H., <b>Banerjee R.*</b>	DOI: <a href="https://doi.org/10.1016/j.ijbiomac.2020.03.166">https://doi.org/10.1016/j.ijbiomac.2020.03.166</a>	154	904–915	Print ISSN: 0141-8130 Online ISSN: 1879-0003
13	Plos One (SCI and SCOPUS)	Reciprocal interplay between asporin and decorin: Implications in gastric cancer prognosis.	August 2021	<b>Basak, D.</b> , Jamal, Z., Ghosh, A., Mondal, PK., Talukdar, PD., Ghosh, S., .... <b>Dutta S*</b>	DOI: <a href="https://doi.org/10.1371/journal.pone.0255915">https://doi.org/10.1371/journal.pone.0255915</a>	16(8)	e0255915	ISSN : 1932-6203
14	Proteins: Structure, function, Bioinformatics. PubMed-Medline, Thomson Reuters Science Citation Index (and BIOSIS and WoS), Scopus.	Can the Jigsaw Puzzle Model of Protein Folding Re-assemble a Hydrophobic Core?	2022	<b>Biswas, G.</b> , Ghosh, S., Basu, S., Bhattacharyya, D., Datta, A. K., & <b>Banerjee, R.</b>	<a href="https://doi.org/10.1002/prot.26321">https://doi.org/10.1002/prot.26321</a>	90(7)	1390 – 1412	1097-0134
15	Journal of Biomolecular Structure and Dynamics. PubMed-Medline, Thomson Reuters Science Citation Index (and BIOSIS and WoS), Scopus.	Spectrin: an alternate target for cytoskeletal drugs.	2022	<b>Dutta, S.</b> , Bose, D., Ghosh, S., & <b>Chakrabarti, A.</b>	<a href="https://doi.org/10.1080/0739102.2022.2109063">https://doi.org/10.1080/0739102.2022.2109063</a>	41(14),	6534 – 6545	Print ISSN: 0739-1102 Online ISSN: 1538-0254

16	Journal of Survey in Fishery Sciences. Scopus	Analytical approach of micro-RNA interaction study in ovarian cancer,	2023	<b>Ankita Sen</b> , Ishita Mondal, Sourav Das, Shrabani Roy, Moumita Mondal, Ritika Roy, Suman Sarangi, Sourav Banerjee, Suranjana Sarkar, Bidisha Ghosh, Subhasis Sarkar, <b>Semanti Ghosh*</b>	<a href="https://doi.org/10.53555/sfs.v10i1S.2144">https://doi.org/10.53555/sfs.v10i1S.2144</a>	Vol. 10 No. 1S (Special issue 1)	6328-6335	ISSN: 2368-7487
17	Journal of Survey in Fishery Sciences. Scopus	Structural and functional relationship study in plant salinity stress	2023	<b>Chakraborty, B.</b> , Gosai, R., Saha, D., Nayek, B., Biswas, P., Gupta, A.D., Ghosh, R., Ghosh, B., Sarkar, S., Sarkar, S., & <b>Ghosh, S.</b>	DOI: 10.53555 /sfs.v10i1S.2145	Vol. 10 No. 1S (Special issue 1)	6336-6343	ISSN: 2368-7487
18	Journal of Survey in Fishery Sciences. Scopus	Role of pathogenesis-related (PR) proteins in plant microbes defense mechanism	2023	<b>Subhasri Dalalthakur</b> , Puja Singh, Shruti Singh, Atin Sasmal, Tania Deb, Srijani Karmakar, Tilottoma Dasgupta, Subhasis Sarkar, Suranjana Sarkar, Bidisha Ghosh, <b>Semanti Ghosh*</b>	DOI: <a href="https://doi.org/10.53555/sfs.v10i1S.2146">https://doi.org/10.53555/sfs.v10i1S.2146</a>	Vol. 10 No. 1S (Special issue 1)	6344-6352	ISSN: 2368-7487
19	Journal of Survey in Fishery Sciences. Scopus	Protein protein interaction mapping of neurodegenerative disease	2023	<b>Ananya Samanta</b> , <b>Semanti Ghosh*</b>		Vol. 10 No. 1S (Special issue 1)	6449 – 6450	ISSN: 2368-7487
20	Journal of Survey in Fishery Sciences. Scopus	Comparative in silico study of major prolamin protein of Wheat and Rice in relation to Celiac Disease	2023	<b>Mouli Nahar</b> , <b>Semanti Ghosh*</b>	DOI: <a href="https://doi.org/10.53555/sfs.v10i1S.2164">https://doi.org/10.53555/sfs.v10i1S.2164</a>	Vol. 10 No. 1S (Special issue 1)	6451 – 6453	ISSN: 2368-7487

21	Journal of Survey in Fishery Sciences. Scopus	The Key to A Sustainable Future - Algal Biofuel	2023	<b>Ghosh, A.</b> , Naskar, P., Dey, S., Mukherjee, S., Biswas, S., Das, R., Sarkar, S., Ghosh, S., Ghosh, B., <b>Sarkar, S.</b>		Vol. 10 No. 1S (Special issue 1)	6395-6400	ISSN: 2368-7487
22	Journal of Survey in Fishery Sciences. Scopus	The Role of Plant Hormone on Root Development	2023	<b>Nayak, S.</b> , Chakraborty, S., Roy, S., Roy, S., Ghosh, K., Ghorui, A., Sarkar, S., Ghosh, B., Ghosh, S., <b>Sarkar, S.</b>		Vol. 10 No. 1S (Special issue 1)	6401 – 6407	ISSN: 2368-7487
23	Journal of Survey in Fishery Sciences. Scopus	Phytoremediation- Friendlier and Affordable Approach to Remediate Heavy Metal Pollution	2023	<b>Ghosh, S.</b> , Ghosh, B., Ghosh, M., Paul, S., Pal, A., Dey, T., Sarkar, S., Ghosh, S., Ghosh, B., <b>Sarkar, S.</b>		Vol. 10 No. 1S (Special issue 1)	6291-6296	ISSN: 2368-7487
24	Journal of Survey in Fishery Sciences. Scopus	Water Reclamation Through Nano-remediation & Bioremediation: A Weal Against Conventional Chemical Techniques	2023	<b>Pal, N.</b> , Das, P., Dutta, R., Sarkar, S., Mukherjee, S., Devi, P., Mukherjee, M., Dhar, S., Ghosh, S., Sarkar, S., Sarkar, S., <b>Ghosh, B.</b>		Vol. 10 No. 1S (Special issue 1)	6297-6305	ISSN: 2368-7487
25	Journal of Survey in Fishery Sciences. Scopus	Phosphate Solubilizing Bacteria: A potential biotic component for solubilizing phosphate in soil and its application as Biofertilizer: A Review.	2023	<b>Banerjee, D.</b> , Sadhu, P., Das, S., Pal, S., Mitra, S., Ghosal, A., Sarkar, S., Ghosh, B., Ghosh, S., <b>Sarkar, S.</b>		Vol. 10 No. 1S (Special issue 1)	6306-6315	ISSN: 2368-7487
26	Journal of Survey in Fishery Sciences. Scopus	Mycoremediation is a Potential Strategy for Environmental Clean-up of Heavy Metal: A Review	2023	<b>Biswas, D.</b> , Chourasia, A., Sasimal, A., Santra, S., Panigrahi, S., Kundu, M., Sarkar, S., Ghosh, B., Ghosh, S., <b>Sarkar, S.</b>		Vol. 10 No. 1S (Special issue 1)	6316-6327	ISSN: 2368-7487

27	Journal of Survey in Fishery Sciences. Scopus	Scavenging of Waste Water Using Oyster Mushrooms	2023	<b>Noor, S., Mondal, M., Singh, S., Sadhu, P., Chourasia, S., Patra, S., Ghosh, K., Pal., S., Sarkar, S., Sarkar, S., Ghosh, S., Ghosh, B.</b>		Vol. 10 No. 1S (Special issue 1)	6364-6371	ISSN: 2368-7487
28	Journal of Survey in Fishery Sciences. Scopus	Study About the Absorption Pattern of Soil Chromium By Perennial Flowering Herbs	2023	<b>Saha, S., Devi, P., Das, S., Roy, S., Sing, P., Mitra, S., Banerjee, S., Mallick, J., Sarkar, S., Sarkar, S., Ghosh, S., Ghosh, B.</b>		Vol. 10 No. 1S (Special issue 1)	6372-6377	ISSN: 2368-7487
29	Journal of Survey in Fishery Sciences. Scopus	Therapeutic Role of Probiotics In Managing Various Diseases	2023	<b>Sharma, P., Das, S., Sadhu, P., Pal, S., Mitra, S., Ghoshal, A., Biswas, S., Roy, S., Sarkar, S., Ghosh, B., Ghosh, S., Sarkar, S.</b>		Vol. 10 No. 1S (Special issue 1)	6378-6380	ISSN: 2368-7487
30	Journal of Survey in Fishery Sciences. Scopus	Phytoremediation: A Way Forward Towards Heavy Metal Management	2023	<b>Ghoshal, A., Saha, P., Mallick, J., Sarkar, S., Chakraborty, M., Sarkar, S., Ghosh, B., Ghosh, S., Sarkar, S.</b>		Vol. 10 No. 1S (Special issue 1)	6381-6394	ISSN: 2368-7487
31	Journal of Advanced Zoology Google Scholar	Biofertilizer and their importance in sustainable agriculture.	2023	<b>Sourav Banerjee, Suranjana Sarkar, Subhasis Sarkar, Bidisha Ghosh, Semanti Ghosh*</b>	<b>DOI:</b> 10.53555 5/jaz.v44iS5.3 222 Google Scholar	44(S5)	2526 – 2529	ISSN: 0253-7214
32	Journal of Advanced Zoology Google Scholar	Genetic Diagnosis of Vexas Syndrome: A New Rare And Deadly Autoinflammatory Disorder In Adults	2023	<b>Srijani Karmakar, Sahely Roy, Suranjana Sarkar, Bidisha Ghosh, Subhasis Sarkar, Semanti Ghosh*</b>	<b>DOI:</b> <a href="https://doi.org/10.53555/jaz.v44iS5.3302">https://doi.org/10.53555/jaz.v44iS5.3302</a>	44(S5)	2636 – 2640	ISSN: 0253-7214

33	Journal of Advanced Zoology Google Scholar	Tuberculosis - A multisystemic disease and antimicrobial resistance in <i>Mycobacterium tuberculosis</i> .	2023	<b>Tilatoma Dasgupta, Bidisha Ghosh, Suranjana Sarkar, Subhasis Sarkar, Semanti Ghosh*</b>	<a href="https://doi.org/10.53555/jaz.v44iS5.3304">https://doi.org/10.53555/jaz.v44iS5.3304</a>	44(S5),	2641 – 2645	ISSN: 0253-7214
34	Journal of Advanced Zoology Google Scholar	Melittin based nano drug delivery system for cancer therapy.	2023	<b>Smarta Das, Semanti Ghosh*</b>	<b>DOI:</b> <a href="https://doi.org/10.53555/jaz.v44iS5.3290">https://doi.org/10.53555/jaz.v44iS5.3290</a>	44(S5)	2607 – 2610	ISSN: 0253-7214
35	Journal of Advanced Zoology Google Scholar	Molecular Insight of Q126P PINK1 Mutation Parkinson's Disease	2024	<b>Ananya Samanta, Semanti Ghosh*</b>	<a href="https://doi.org/10.53555/jaz.v45i1.4564">https://doi.org/10.53555/jaz.v45i1.4564</a>	45(1)	499– 503	ISSN: 0253-7214
36	Journal of Advanced Zoology Google Scholar	Comprehensive In-Silico Study of PLAT Domain Containing Protein 1 Upregulated From Salinity Stress In <i>Oryza Sativa</i> .	2024	<b>Mouli Nahar, Semanti Ghosh*</b>	<b>DOI:</b> <a href="https://doi.org/10.53555/jaz.v45i1.4570">https://doi.org/10.53555/jaz.v45i1.4570</a>	45(1)	529– 534	ISSN: 0253-7214
37	Journal of Advanced Zoology Google Scholar	Immunotherapy: A New Generation Treatment For Cancer.	2024	<b>Ritika Roy, Bidisha Ghosh, Suranjana Sarkar, Subhasis Sarkar, Semanti Ghosh*</b>	<b>DOI:</b> <a href="https://doi.org/10.53555/jaz.v45i1.4565">https://doi.org/10.53555/jaz.v45i1.4565</a>	45(1)	504– 507	ISSN: 0253-7214
38	Journal of Advanced Zoology Google Scholar	Recent Advancement Of Algal Biofuel Production And Its Potential Uses.	2024	<b>Monisha Sarker, Semanti Ghosh*</b>	<b>DOI:</b> <a href="https://doi.org/10.53555/jaz.v45i1.4566">https://doi.org/10.53555/jaz.v45i1.4566</a>	45(1)	508– 510	ISSN: 0253-7214
39	Journal of Advanced Zoology Google Scholar	A Study On Potential Drug Target For SARS-CoV-2-And Combinatorial Therapeutic Approach To Combat COVID-19.	2024	<b>Debojyati Datta, Semanti Ghosh*</b>	<b>DOI:</b> <a href="https://doi.org/10.53555/jaz.v45i1.4567">https://doi.org/10.53555/jaz.v45i1.4567</a>	45(1)	511– 517	ISSN: 0253-7214
40	Journal of Advanced Zoology Google Scholar	Role Of LncRNA In Alzheimer's Diseases.	2024	<b>Prabahan Nath, Semanti Ghosh*</b>	<b>DOI:</b> <a href="https://doi.org/10.53555/jaz.v45i1.4568">https://doi.org/10.53555/jaz.v45i1.4568</a>	45(1)	518– 523	ISSN: 0253-7214

41	Journal of Advanced Zoology Google Scholar	Genetic Basis And Clinical Perspectives Of Breast Cancer	2023	<b>Bidisha Ghosh,</b> Monoswita Chakraborty, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar, & <b>Suranjana Sarkar.</b>	<a href="https://doi.org/10.53555/jaz.v44iS6.3708">https://doi.org/10.53555/jaz.v44iS6.3708</a>	44(S6)	2265-2272	ISSN: 0253-7214
42	Journal of Advanced Zoology Google Scholar	Microbial Plastic Degradation: Nature's Solution for Sustainable Waste Management	2023	<b>Santanu Biswas,</b> Subhajit Pal, Sayani Das, Soumili Banerjee, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar, & <b>Suranjana Sarkar*</b>	<a href="https://doi.org/10.53555/jaz.v44iS6.3720">https://doi.org/10.53555/jaz.v44iS6.3720</a>	44(S6)	2315 – 2321	ISSN: 0253-7214
43	Journal of Advanced Zoology Google Scholar	Efflux Pumps In Antimicrobial Resistance: Mechanism, Regulation And Therapeutic Implications	2023	<b>Abhishek Ghoshal,</b> Joydev Mallick, Suranjana Sarkar, Semanti Ghosh, Bidisha Ghosh, & <b>Subhasis Sarkar*</b>	<a href="https://doi.org/10.53555/jaz.v44iS5.3282">https://doi.org/10.53555/jaz.v44iS5.3282</a>	44(S5)	2575 – 2580	ISSN: 0253-7214
44	Journal of Advanced Zoology Google Scholar	Recombinant Protein Production: Advancements And Applications.	2023	<b>Dipti Das,</b> Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar, & <b>Suranjana Sarkar.</b>	<a href="https://doi.org/10.53555/jaz.v44iS6.3706">https://doi.org/10.53555/jaz.v44iS6.3706</a>	44(S6)	2236 – 2242.	ISSN: 0253-7214
45	Journal of Advanced Zoology Google Scholar	Exosomal RNA: Interplay and Therapeutic Potential.	2023	<b>Sayantani Chakraborty,</b> Sampanna Roy, Aayushee Chatterjee, Falguni Pal, Ritu Das, Puja Sadhu, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar, & <b>Suranjana Sarkar*</b>	<a href="https://doi.org/10.53555/jaz.v44iS6.3718">https://doi.org/10.53555/jaz.v44iS6.3718</a>	44(S6)	2309 – 2314	ISSN: 0253-7214

46	Journal of Advanced Zoology Google Scholar	Oncolytic Viral Nanoparticles: A Combination Of Targeted And Immunotherapeutic Approach For Cancer Treatment: A Review.	2023	<b>Puja Sadhu,</b> Suranjana Sarkar, Aritri Laha, Semanti Ghosh, Bidisha Ghosh, & <b>Subhasis Sarkar*</b>	<a href="https://doi.org/10.53555/jaz.v44iS5.3277">https://doi.org/10.53555/jaz.v44iS5.3277</a>	44(S5)	2537 – 2550	ISSN: 0253-7214
47	Journal of Advanced Zoology Google Scholar	Management Of Microbial Biofilm Using Nano Particle: A Review.	2023	<b>Sulagna Mitra,</b> Suranjana Sarkar, Debjit De, Semanti Ghosh, Bidisha Ghosh, <b>Subhasis Sarkar*</b>	<a href="https://doi.org/10.17762/jaz.v44iS6.2696">https://doi.org/10.17762/jaz.v44iS6.2696</a>	44(S6)	2070 – 2080	ISSN: 0253-7214
48	Journal of Advanced Zoology Google Scholar	Application Of Genetic Engineering In Crop Improvement	2023	<b>Prity Singh,</b> Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar, & <b>Suranjana Sarkar*</b>	<a href="https://doi.org/10.53555/jaz.v44iS6.3717">https://doi.org/10.53555/jaz.v44iS6.3717</a>	44(S6),	2301 – 2308	ISSN: 0253-7214
49	Journal of Advanced Zoology Google Scholar	Gut Microbiome And Human Health: A Review.	2023	<b>Sayani Das,</b> Suranjana Sarkar, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar*	<a href="https://doi.org/10.17762/jaz.v44iS6.2695">https://doi.org/10.17762/jaz.v44iS6.2695</a>	44(S6)	2062 – 2069	ISSN: 0253-7214
50	Journal of Advanced Zoology Google Scholar	Management Of Microbial Biofilm Using Nano Particle: A Review.	2023	<b>Sulagna Mitra,</b> Suranjana Sarkar, Debjit De, Semanti Ghosh, Bidisha Ghosh, <b>Subhasis Sarkar*</b>	<a href="https://doi.org/10.17762/jaz.v44iS6.2696">https://doi.org/10.17762/jaz.v44iS6.2696.</a>	44(S6)	2070 – 2080	ISSN: 0253-7214
51	Journal of Advanced Zoology Google Scholar	Advancing Biomedical Frontiers: Unveiling The Potential Of 3d Bioprinting In Organ Regeneration.	2023	<b>Sayani Das,</b> Sulagna Mitra, Monalisa Mallik, Soumili Banerjee, Subhajit Pal, Abhijit Kumar, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar, & <b>Suranjana Sarkar*</b>	<a href="https://doi.org/10.53555/jaz.v44iS5.3210">https://doi.org/10.53555/jaz.v44iS5.3210</a>	44(S5)	2488 – 2493	ISSN: 0253-7214

52	Journal of Advanced Zoology Google Scholar	Unlocking The Potential of Phytochemicals in Anti-Diabetic Therapy: Mechanisms, Challenges, And Future Prospects.	2023	<b>Ankit Pal</b> , Shreyoshi Pal, Saikat Manna, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar, & Suranjana Sarkar*	<a href="https://doi.org/10.53555/jaz.v44iS6.3713">https://doi.org/10.53555/jaz.v44iS6.3713</a>	44(S6)	2284 – 2289	ISSN: 0253-7214
53	Journal of Advanced Zoology Google Scholar	Immunity Risk Associated with Cytomegalovirus Infection After Organ Transplantation.	2023	Sahely Roy, Semanti Ghosh, Srijani Karmakar, Subhasis Sarkar, Suranjana Sarkar, & <b>Bidisha Ghosh</b> *	<a href="https://doi.org/10.53555/jaz.v44iS5.3202">https://doi.org/10.53555/jaz.v44iS5.3202</a>	44(S5)	2451 – 2456	ISSN: 0253-7214
54	Journal of Advanced Zoology Google Scholar	Recombinant Hormones: Applications And Challenges.	2023	<b>Anwesha Das</b> , Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar, & <b>Suranjana Sarkar</b> *	<a href="https://doi.org/10.53555/jaz.v44iS6.3712">https://doi.org/10.53555/jaz.v44iS6.3712</a>	44(S6)	2279 – 2283	ISSN: 0253-7214
55	Journal of Advanced Zoology Google Scholar	Revolutionizing the Biological Landscape: the Power of Genome Editing.	2023	<b>Deeti Das</b> , Sudipta Chakraborty, Moumita Mukherjee, Susoma Garai, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar, & <b>Suranjana Sarkar</b> *	<a href="https://doi.org/10.53555/jaz.v44iS5.3199">https://doi.org/10.53555/jaz.v44iS5.3199</a>	44(S5)	2446 – 2450	ISSN: 0253-7214
56	International Journal of Research in Advanced Electronics Engineering (Google Scholar, Cross ref)	CRISPR-Cas based nano-sensors in water pathogen detection.	2024	<b>Shrestha Mukherjee</b> , Subhasis Sarkar, Suranjana Sarkar, Semanti Ghosh, <b>Bidisha Ghosh</b> *	DOI: 10.22271/27084558.2024.v5.i1a.32	5(1)	07-10	P-ISSN: 2708-4558 E-ISSN: 2708-4566
57	International Journal of Pharmacology and	Recent advances in dendrimer-based drug and gene delivery system.	2024	<b>Arijit Maity</b> , Subhasis Sarkar, Semanti Ghosh, Suranjana	<a href="https://doi.org/10.33545/26647206.2024.v6.i1a.13">https://doi.org/10.33545/26647206.2024.v6.i1a.13</a>	6(1)	01-04	P-ISSN: 2664-7206

	Pharmaceutical Sciences (Google Scholar)			Sarkar and Bidisha Ghosh*.				E-ISSN: 2664-7214
58	International Journal of Research in Medical Science (Google Scholar, Cross ref)	Recent insights into anti-adhesion inhibition in medical implants to treat bacterial infections through naturally derived compounds.	2024	<b>Addityaa Sinha,</b> Suranjana Sarkar, Subhasis Sarkar, Semanti Ghosh and <b>Bidisha Ghosh*</b>	DOI: 10.33545/26648733.2024.v6.i1a.53	6(1)	21-26	P-ISSN: 2664-8733 E-ISSN: 2664-8741
59	Zoological and Entomological Letters (Google Scholar)	Analysis of pathogenic genes in dengue virus.	2024	<b>Satabdi Dey</b> , Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar and <b>Suranjana Sarkar*</b>	DOI: <a href="https://doi.org/10.22271/letters.2024.v4.i1a.84">https://doi.org/10.22271/letters.2024.v4.i1a.84</a>	4(1)	67-70	E-ISSN: 2788-8428 P-ISSN: 2788-8436
60	Advances in Bioresearch (Web of Science, UGC care listed)	Identification of Key Genes Related to Salinity Stress in Rice ( <i>Oryza sativa</i> ) Using Bioinformatics Analysis	November, 2024	<b>Nahar M, Samanta A, Ghosh S*.</b>	DOI: 10.15515/abr.0976-4585.15.6.387394	Vol 15 (6).	387-394	E- ISSN: 2277-1573
61	Advances in Bioresearch (Web of Science, UGC care listed)	Comparative Study of Sequence & Phylogeny Analysis of Dengue Virus isolates from globally infected countries	November, 2024	<b>Datta D, Ghosh S*.</b>	DOI: 10.15515/abr.0976-4585.15.6.395404	Vol 15 (6)	395-404	PRINT ISSN: 0976-4585
62	Molecular Biotechnology PubMed-Medline, Thomson Reuters Science Citation Index (and BIOSIS and WoS), Scopus	Analyzing the Molecular Signature Genes and Pathways of Dengue Fever, Dengue Hemorrhagic Fever and Dengue Shock Syndrome Caused by Dengue Virus in India.	February, 2025	<b>Datta D, Ghosh S*.</b>	<a href="https://doi.org/10.1007/s12033-025-01407-7">https://doi.org/10.1007/s12033-025-01407-7</a>			Electronic ISSN 1559-0305 Print ISSN 1073-6085

63	The Science Of The Total Environment PubMed-Medline, Thomson Reuters Science Citation Index (and BIOSIS and WoS), Scopus	Impact of metformin on gene expression in Burmese loach ( <i>Lepidocephalichthys berdmorei</i> ) from Manipur, India.	May, 2025	<b>Ningombam, P.,</b> Kundu, R. D., Ghosh, S., Ghosh, S. K., & Wangkheimayum, V. D.	<a href="https://doi.org/10.1016/j.scitotenv.2025.179458">https://doi.org/10.1016/j.scitotenv.2025.179458</a>	978	1794-58	ISSN-0048-9697
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### 3. Book chapter:

Book Chapter Publication:

Sl. No.	Title of the Book	Publishers	Name of the Chapter	Author(s) Name <b>(Highlight the corresponding and 1<sup>st</sup> author in every article)</b>	ISBN No.	Year of Publication	DOI No. (if applicable)
1	The Gen-Next Genomics Revolution.	Sarvasumanâ Association, India.	A short note on Computational biomolecular modelling and molecular docking.	<b>Semanti Ghosh, Angshuman Bagchi*</b>	ISBN: 978-81-952207-1-7 (online) ISBN: 978-81-952207-0-0 (print)	2022	NA
2	Multidisciplinary Review Book.	Taurean Publications. New Delhi.	An overview of Computational tools and Databases	<b>Semanti Ghosh, Angshuman Bagchi*</b>	E-Book ISBN: 978-93-91074-40-1	2022	NA
3	Phospholipases in Physiology & Pathology,	Academic Press.	Protein – protein Interaction Mapping of Phospholipase	<b>Ananya Samanta, Semanti Ghosh, Angshuman Bagchi*</b>	978-0-323-95687-1	2023	<a href="https://doi.org/10.1016/B978-0-443-15177-4.00009-1">https://doi.org/10.1016/B978-0-443-15177-4.00009-1</a>

4	Frontiers In Biotechnology: Emerging Approaches And Strategies.		Recent Advancements on Computational Enzyme Designing: Rational to De-Novo.	<b>Semanti Ghosh*</b> , Suranjana Sarkar, Bidisha Ghosh, Subhasis Sarkar	978-93-5980-245-9	2023	NA
5	Frontiers In Biotechnology: Emerging Approaches And Strategies.		Advances In Wastewater Treatment Technology.	<b>Subhasis Sarkar</b> , Bidisha Ghosh, Suranjana Sarkar, Semanti Ghosh.	978-93-5980-246-6	2023	NA
6	Frontiers In Biotechnology: Emerging Approaches And Strategies.		Recent Advances In The Sensing Of Pesticides And Antibiotics In Water Through Fluorescent Quantum Dots.	<b>Bidisha Ghosh</b> , Subhasis Sarkar, Suranjana Sarkar, Semanti Ghosh.	978-93-5980-245-9	2023	NA
7	Frontiers In Biotechnology: Emerging Approaches And Strategies.		Beyond The Plate: Advances and Future Frontiers in Food Microbiology.	<b>Suranjana Sarkar</b> , Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar.	978-93-5980-246-6	2023	NA
8	Interdisciplinary Review Articles - Assisting as a Bridge between Research & Development	AkiNik Publications	Diagnosis of Alagille Syndrome: A Genetic Disorder	<b>Krittika Das</b> , Soumashri Mondal, Suranjana Dhara, Aditi Das, Daizy and <b>Semanti Ghosh*</b>	978-93-6135-236-2	2024	<b>Book DOI:</b> <a href="https://doi.org/10.22271/ed.book.2879">https://doi.org/10.22271/ed.book.2879</a>
9	Microbes and Biotechnology: Real-World Applications	Integrated Publications.	A Review on Role of Long Non Coding RNA in Dengue Fever	<b>Debojyoti Datta</b> and <b>Semanti Ghosh*</b>	978-93-5834-281-9	2024	<b>Book DOI:</b> <a href="https://doi.org/10.62778/int.book.451">https://doi.org/10.62778/int.book.451</a>

10	Microbes and Biotechnology: Real-World Applications	Integrated Publications.	Nanotechnology-based Immunotherapeutic Medication for Cancer Diagnosis and Treatment	<b>Joysurya Kanthal and Semanti Ghosh*</b>	978-93-5834-281-9	2024	<b>Book DOI:</b> <a href="https://doi.org/10.62778/int.book.451">https://doi.org/10.62778/int.book.451</a>
11	Biotech Miracles: Harnessing the Power of Microbes	Integrated Publications.	Medicinal Review of Costus igneus: The Insulin Plant	<b>Rajiv Gosai and Semanti Ghosh*</b>	978 93 5834 436 3	2024	<b>Book DOI:</b> <a href="https://doi.org/10.62778/int.book.479">https://doi.org/10.62778/int.book.479</a>
12	Biotech Miracles: Harnessing the Power of Microbes	Integrated Publications	Functional Effect of Yogurt in Human Health	<b>Ramu Samanta and Semanti Ghosh*</b>	978 93 5834 436 3	2024	<b>Book DOI:</b> <a href="https://doi.org/10.62778/int.book.479">https://doi.org/10.62778/int.book.479</a>
13	Biotech Miracles: Harnessing the Power of Microbes	Integrated Publications	Role of Helicobacter pylori in Gastric Carcinogenesis	<b>Ritika Roy, Riya Ghosh, Tilatoma Dasgupta, Srijani Karmakar and Semanti Ghosh*</b>	978 93 5834 436 3	2024	<b>Book DOI:</b> <a href="https://doi.org/10.62778/int.book.479">https://doi.org/10.62778/int.book.479</a>
14	Biotech Miracles: Harnessing the Power of Microbes	Integrated Publications	Phage Therapy: A Promising Paradigm Shift in Antibiotic Resistance	<b>Srijani Karmakar, Sahely Roy, Riya Ghosh, Ritika Roy and Semanti Ghosh*</b>	978 93 5834 436 3	2024	<b>Book DOI:</b> <a href="https://doi.org/10.62778/int.book.479">https://doi.org/10.62778/int.book.479</a>
15	Microbial Biotechnology in Industry and Medicine	Bright Sky Publications	Functional Effect Regarding Specialised Metabolites Constructed Over Endophytic Fungi	<b>Manashi Paul and Semanti Ghosh*</b>	978 93 6233 478 7	2024	<b>DOI:</b> <a href="https://doi.org/10.62906/bs.book.213">https://doi.org/10.62906/bs.book.213</a>

16	Microbial Biotechnology in Industry and Medicine	Bright Sky Publications	Cystic Fibrosis: An Inherited Life Threatened Genetic Disorder	<b>Monisha Sarker, Ipsmita Pan, Srijita Ghosh, Tandrima Tikadar, Shaloni Das, Pratim Patra, Semanti Ghosh*</b>	978 93 6233 478 7	2024	<b>DOI:</b> <a href="https://doi.org/10.62906/bs.book.213">https://doi.org/10.62906/bs.book.213</a>
17	Articles from Different Disciplines that Serve as a Link between Research and Development	AkiNik Publications	Anticancer Peptides: Synthesis Methods, Modes of Action, and Future Potential Therapeutic uses for Cancer Treatment	<b>Pooja Kumari and Semanti Ghosh*</b>	978-93-6135-406-9	2024	<b>Book DOI:</b> <a href="https://doi.org/10.22271/ed.book.2993">https://doi.org/10.22271/ed.book.2993</a>
18	Articles from Different Disciplines that Serve as a Link between Research and Development	AkiNik Publications	Gene Enrichment, Network Mapping, and Identification of Potential Core Genes Associated with Parkinson's Disease	<b>Deep Saha, Prabahan Nath and Semanti Ghosh*</b>	978-93-6135-406-9	2024	<b>Book DOI:</b> <a href="https://doi.org/10.22271/ed.book.2993">https://doi.org/10.22271/ed.book.2993</a>
19	Research Renaissance: Integration of Interdisciplinary Terrains	Notion Press	GBA Gene Expression study of Parkinson Disease	<b>Bipasha Dey Sutradhar, Semanti Ghosh*, Debjit De</b>	979-889588010-4	2024	NA
20	Research Renaissance: Integration of Interdisciplinary Terrains	Notion Press	Analyzing molecular signature proteins of VEXAS Syndrome.	<b>Ritika Roy, Srijani Karmakar, Semanti Ghosh*</b>	979-889588010-4	2024	NA
21	Exploring The Cosmos: Interdisciplinary Research Approach	Notion Press	Diverse facets of alpha-synuclein in Parkinson's Disease	<b>Ananya Samanta, Semanti Ghosh*</b>	ISBN: 979-889673635-6	2024	NA

22	Exploring The Cosmos: Interdisciplinary Research Approach	Notion Press	Molecular Breeding: Beacon To Combat Salinity Stress In Rice – A Review"	<b>Mouli Nahar, Semanti Ghosh*</b>	ISBN: 979-889673635-6	2024	NA
23	Innovative and Hybrid Technologies for Wastewater Treatment and Recycling	Taylor and Francis, CRC Press	Advancing Sustainable Wastewater Treatment: Unleashing the Potential of Nano-Sponges for Effective Remediation.	<b>Bidisha Ghosh, Suranjana Sarkar, Semanti Ghosh*</b>	9781032593265	2024	<a href="https://doi.org/10.1201/9781003454199">https://doi.org/10.1201/9781003454199</a>
24	Radioactive Pollutant - Sources, Issues and Remediation	Springer	Microbial Interventions in Bioremediation of Nuclear Waste.	<b>Suranjana Sarkar, Bidisha Ghosh, Semanti Ghosh*</b>	978-3-031-73796-1	2024	<a href="https://doi.org/10.1007/978-3-031-73796-1">https://doi.org/10.1007/978-3-031-73796-1</a>
25	The Living Laboratory Biotechnology & Microbial Frontiers	AkiNik Publications	AI in Eco-Friendly Sustainable Agriculture	<b>Ramu Samanta and Semanti Ghosh*</b>	<i>Paperback ISBN: 978-93-6135-365-9 EBook ISBN: 978-93-6135-634-6</i>	2025	<b>Book DOI:</b> <a href="https://doi.org/10.22271/ed.book.3211">https://doi.org/10.22271/ed.book.3211</a>
26	Translational Research in Applied Science: Microbiology, Biotechnology, and Bio-Innovation	Cambridge Scholars Publishing Limited	Translation Bioinformatics and Computational Biology: historical evolution, applications and future perspectives	<b>Prabahan Nath, Debojyati Datta, Semanti Ghosh*</b>		2025	
27	Physiological Perspectives on Food Safety:	Springer Nature	Neurophysiological Implications of Food Safety: Food Borne	<b>Priti Nandi, Joysurya Kanthal, Surajit Hansda, Semanti Ghosh*</b>	978-3-031-94581-6	2025	<b>DOI:</b> 10.1007/978-3-

	Exploring the Intersection of Health and Nutrition		Pathogens and Its Neurological Impact				031-94582-3
28	Blueprints of Life: Unlocking the Power of Modern Biotechnology	Penprints	Pesticide Residue Analysis In Marketed Green Chili's: A Comparative Study With Organically Grown Green Chilies	<b>Joysurya Kanthal, Semanti Ghosh*</b>	ISBN: 978-81-988004-7-3 ISBN 10 : 81-988004-7-6	2025	
29	Blueprints of Life: Unlocking the Power of Modern Biotechnology	Penprints	Amelioration Of Salinity Stress In Rice Cultivation Of West Bengal	<b>Puja Dutta, Semanti Ghosh*</b>	ISBN: 978-81-988004-7-3 ISBN 10 : 81-988004-7-6	2025	
30	Blueprints of Life: Unlocking the Power of Modern Biotechnology	Penprints	Advances In Stem Cell Biotechnology And Regenerative Medicine: Applications, Challenges, And Future Perspectives	<b>Niranjan Barik, Semanti Ghosh*</b>	ISBN: 978-81-988004-7-3 ISBN 10 : 81-988004-7-6	2025	
31	Articles from Different Disciplines that Serve as a Link between Research and Development	<i>AkiNik Publications</i>	A Systematic Review of Treatment of Antibiotics and Water-Borne Pathogens by Piezo-Catalytic Nanomaterials	<b>Shrestha Mukherjee, Semanti Ghosh, Subhasis Sarkar, Suranjana Sarkar and Bidisha Ghosh</b>	ISBN: 978-93-6135-406-9	2024	Book DOI: <a href="https://doi.org/10.22271/ed.book.2993">https://doi.org/10.22271/ed.book.2993</a>
32	Articles from Different Disciplines that Serve	<i>AkiNik Publications</i>	Precision Therapy: CRISPR-Cas9 Gene Editing in Sickle Cell Disease	<b>Santanu Biswas, Semanti Ghosh, Bidisha Ghosh, Subhasis</b>	ISBN: 978-93-6135-406-9	2024	Book DOI: <a href="https://doi.org/10.22271">https://doi.org/10.22271</a>

	as a Link between Research and Development			<b>Sarkar and Suranjana Sarkar*</b>			/ed.book.29 93
33	Articles from Different Disciplines that Serve as a Link between Research and Development	<i>AkiNik Publications</i>	Unveiling the Therapeutic Potential of <i>Mycobacterium vaccae</i> for Mental Health	<b>Bidisha Ghosh, Ankit Pal, Semanti Ghosh, Subhasis Sarkar and Suranjana Sarkar*</b>	ISBN: 978-93-6135-406-9	2024	Book DOI: <a href="https://doi.org/10.22271/ed.book.29 93">https://doi.org/10.22271/ed.book.29 93</a>
34	Articles from Different Disciplines that Serve as a Link between Research and Development	<i>AkiNik Publications</i>	Biofertilizer and their Importance in Sustainable Agriculture	<b>Sayani Das, Bidisha Ghosh, Suranjana Sarkar and Subhasis Sarkar*</b>	ISBN: 978-93-6135-406-9	2024	Book DOI: <a href="https://doi.org/10.22271/ed.book.29 93">https://doi.org/10.22271/ed.book.29 93</a>
35	Microbial Biotechnology in Industry and Medicine	Bright Sky Publications	Mycobacteriophages: A Bacteriophage Therapeutic Approach for the Treatment of <i>Mycobacterium Tuberculosis</i> Infections: A Review	<b>Puja Sadhu, Bidisha Ghosh, Suranjana Sarkar, Semanti Ghosh and Subhasis Sarkar*</b>	978 93 6233 478 7	2024	<b>DOI:</b> <a href="https://doi.org/10.62906/bs.book.21 3">https://doi.org/10.62906/bs.book.21 3</a>
36	Microbial Biotechnology in Industry and Medicine	Bright Sky Publications	Navigating Neurotechnological Frontiers: Prospects and Trajectories of Neuralink's Brain-Machine Interface	<b>Ankit Pal, Bidisha Ghosh, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar and Suranjana Sarkar*</b>	978 93 6233 478 7	2024	<b>DOI:</b> <a href="https://doi.org/10.62906/bs.book.21 3">https://doi.org/10.62906/bs.book.21 3</a>

37	Biotech Miracles: Harnessing the Power of Microbes	Integrated Publications	Decoding Food Spoilage: Microbial Culprits and Mechanisms	<b>Diksha Adhikari, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar and Suranjana Sarkar*</b>	978 93 5834 436 3	2024	<b>Book DOI:</b> <a href="https://doi.org/10.62778/int.book.479">https://doi.org/10.62778/int.book.479</a>
38	Biotech Miracles: Harnessing the Power of Microbes	Integrated Publications	Exploring the Role of Melatonin in Disease Prevention and Anti-Aging	<b>Jhilik Das, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar and Suranjana Sarkar*</b>	978 93 5834 436 3	2024	<b>Book DOI:</b> <a href="https://doi.org/10.62778/int.book.479">https://doi.org/10.62778/int.book.479</a>
39	Microbes and Biotechnology: Real-World Applications	Integrated Publications.	Delving Into the Importance of Bioactive Peptide from Marine Algae & Their Potential Health Impacts	<b>Abu Jishan, Semanti Ghosh, Subhasis Sarkar, Suranjana Sarkar and Bidisha Ghosh*</b>	978-93-5834-281-9	2024	<b>Book DOI:</b> <a href="https://doi.org/10.62778/int.book.451">https://doi.org/10.62778/int.book.451</a>
40	Microbes and Biotechnology: Real-World Applications	Integrated Publications.	Aloe Vera: An In-Depth Exploration of Its Therapeutic and Medicinal Uses	<b>Santanu Mishra, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar and Suranjana Sarkar*</b>	978-93-5834-281-9	2024	<b>Book DOI:</b> <a href="https://doi.org/10.62778/int.book.451">https://doi.org/10.62778/int.book.451</a>
41	Microbes and Biotechnology: Real-World Applications	Integrated Publications.	Antimicrobial Activity of Medicinal Plants	<b>Arpan Pattnayak, Bidisha Ghosh, Semanti Ghosh, Suranjana Sarkar and Subhasis Sarkar*</b>	978-93-5834-281-9	2024	<b>Book DOI:</b> <a href="https://doi.org/10.62778/int.book.451">https://doi.org/10.62778/int.book.451</a>
42	Interdisciplinary Review Articles - Assisting as a Bridge between	AkiNik Publications	The Utility of Biologically Competent Polymers and Tuning Natural Bioactive Compounds	<b>Anushka Singh, Madiha Perween, Palak Bhardwaj, Priyanka Mandal, Riya Lama, Semanti Ghosh, Subhasis</b>	978-93-6135-236-2	2024	<b>Book DOI:</b> <a href="https://doi.org/10.22271/ed.book.2879">https://doi.org/10.22271/ed.book.2879</a>

	Research & Development		in Modern Dermatological Formulations: A Concise Review	Sarkar, Suranjana Sarkar and Bidisha Ghosh *			
43	Interdisciplinary Review Articles - Assisting as a Bridge between Research & Development	AkiNik Publications	Pioneering the Next Frontier: Innovative Approaches to Tackle Antibiotic Resistance	<b>Prity Singh</b> , Anwesha Das, Tiyasha Saha, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar and Suranjana Sarkar*	978-93-6135-236-2	2024	<b>Book DOI:</b> <a href="https://doi.org/10.22271/ed.book.2879">https://doi.org/10.22271/ed.book.2879</a>
44	Interdisciplinary Review Articles - Assisting as a Bridge between Research & Development	AkiNik Publications	Nanoparticle and Antibiotic: Combinatorial Therapy for Biofilm Prevention	<b>Sulagna Mitra</b> , Bidisha Ghosh, Suranjana Sarkar and Subhasis Sarkar*	978-93-6135-236-2	2024	<b>Book DOI:</b> <a href="https://doi.org/10.22271/ed.book.2879">https://doi.org/10.22271/ed.book.2879</a>
45	Computational Intelligence in Medical Informatics. Springer Briefs in Applied Sciences and Technology	Springer	Analysis of the structural details of DsrO protein from <i>Allochromatium vinosum</i> to identify the role of the protein in the redox transport process through the dsr operon	<b>Ghosh S., Bagchi A*</b>	ISBN 978-981-287-259-3;	2015	<a href="https://doi.org/10.1007/978-981-287-260-9_1">https://doi.org/10.1007/978-981-287-260-9_1</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	Natural anti-inflammatory powder formulation.	Beauty Roy, S. Vinitha, Puja Dutta, <b>Semanti Ghosh.</b>	Beauty Roy, S. Vinitha, Puja Dutta, <b>Semanti Ghosh.</b>	Mar 12, 2025	Mar 28, 2025.		202531022079 A