

Curriculum Vitae

Dr. Subhasis Sarkar, M.Sc., Ph.D

Assistant Professor
Department of Microbiology,
School of Life Sciences
Swami Vivekananda University, Barrakpore



RESIDENTIAL ADDRESS

Prafulla Chaki Sarani, East
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CONTACT DETAILS

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Post Ph.D. Teaching/Research Experience: 11 Years

Google Scholar Profile: https://scholar.google.com/citations?user=_M9-AKMAAAAJ&hl=en

<u>Citations</u>	2150
<u>h-index</u>	13
<u>i10-index</u>	13

Orchid ID: <https://orcid.org/0000-0003-2976-5472>

PROFESSIONAL DETAILS

Assistant Professor, Department of Microbiology, Swami Vivekananda University, Barrackpore, West Bengal (September, 2021 – till date)

Visiting Lecturer, Department of Food & Nutrition, Panihati Mahavidyalaya, Kolkata- 700110 (November, 2020- August, 2021).

Assistant Professor, Department of Microbiology, Kingston College of Science (March, 2016 – October, 2020).

Guest Lecturer, Department of Microbiology, West Bengal State University, Barasat (August, 2019- August, 2021)

Guest Lecturer, Department of Food & Nutrition, West Bengal State University, Barasat (August, 2018- January, 2019)

Guest Lecturer, Department of Physiology, West Bengal State University, Barasat (January, 2019- August, 2019)

Senior Project Fellow, Institute of Environmental Studies and Wetland Management, Govt. of West Bengal (July, 2015- March, 2016).

Guest Lecturer, Department of Molecular Biology & Bioinformatics, Tripura University, A Central University (Sep, 2014- May, 2015).

Project Assistant, Indian Association for the Cultivation of Science, Kolkata, Govt. of India (Nov 2005- April 2006)

GENERAL INFORMATION

DATE OF BIRTH: 10th December,
1981
NATIONALITY: Indian
GENDER: Male

ACADEMIC BACKGROUND

Ph.D. in BIOTECHNOLOGY in 2014 from University of Calcutta
M.Sc. in BIOTECHNOLOGY in 2005 from University of Calcutta
B.Sc. (Honors) in MICROBIOLOGY in 2003 from University of Calcutta
Higher Secondary in 2000 from WBCHSE
Secondary in 1998 from WBBSE

REVIEWER

1. Journal of Ecology and Natural Environment
2. Arabian Journal of Geosciences
3. Journal of Applied and Fundamental Sciences

FUTURE RESEARCH GOAL

1. The Industrially important enzymes/ value added product generation from solid waste.
2. Exploration of potential microorganism for waste remediation.

Examiner & Paper Setter

(i) M.Sc. (Molecular Biology & Bioinformatics), Tripura University, (ii) B.Sc. & M. Sc. (Microbiology), West Bengal State University, Kolkata; (iii) M.Sc. (Microbiology), Jis Univesity, Kolkata, (iv) B. Tech (Biotech), Amity University, Kolkata; (v) Ph.D.: The Neotia Univesity, West Bengal, (v) B.Sc., M.Sc. & Ph.D. (Microbiology & Biotechnology): Swami Vivekananda University.

Mentor

M.Sc. Dissertation: 05 (completed), 05 (on going)

Research Guide

Ph.D. (on going): 04

Patent: Probiotic malai formulation: Application No. ApplicationNo.202531022101A.
DateoffilingofApplication:12/03/2025; PublicationDate:28/03/2025

Invited Speaker

Seminars & Symposiums

1. Identification of microbial community from soil and water sample: a potential tool for microbial forensics (2011). **Subhasis Sarkar**, Prosun Tribedi, Koushik Mukherjee, Tapan Saha and Alok Kumar Sil. Proceedings in Indian Science Congress Association at SRM University, Channei, Tamil Nadu, India.
2. Oxidic-anoxic coupling in single pond treatment wastewater (2011). **Subhasis Sarkar**, Phani Bhusan Ghosh, Tapan Saha and Alok Kumar Sil. Proceedings in International Conference for Recycling and Reuse of Materials at **Mahatma Gandhi University, Kottayam, Kerala**, India.
3. Sediment Microbial Activity in Single Pond Sewage Stabilization process (2011). **Subhasis Sarkar**, Phanibhusan Ghosh, Alok Kumar Sil, Tapan Saha. Proceedings in National Seminar on Environmental Pollution and Bioremediation at **Jawaharlal Nehru University, New Delhi**, India.
4. Municipal Sewage Treatment in Single Pond System: "Wise Use of Wetland Ecosystem" (2012). **Subhasis Sarkar**, Koushik Mukherjee, Phanibhusan Ghosh, Alok K Sil, Tapan Saha. Proceedings in National Seminar on Recent advancement in Microbiology and Biotechnology at Bidhannagar College, Kolkata, West Bengal, India.
5. Sustainable strategy for municipal sewage recycling: Wise use of wetlands (2012). **Subhasis Sarkar**, Ghosh PB, Sil AK, Saha T. **Proceedings in International conference on Biodiversity & Sustainable Energy Development at HICC complex, Hyderabad**, Andhra Pradesh, India.
6. Natural Treatment of Municipal Sewage in a Sustainable way: Physicochemical and Microbial community study shed light into underlying Mechanism (2013). **Subhasis Sarkar**, Phanibhusan Ghosh, Alok Kumar Sil, Tapan Saha. Proceedings in National Seminar on Green Technologies for Sustainable Environmental Management at **Doon University, Dehradun, Uttarakhand**, India.
7. Suspended Particulate Matter Dynamics act as a driving force for Single Pond Sewage Stabilization System (2013). **Subhasis Sarkar**, Phanibhusan Ghosh, Tapan Saha, Alok Kumar Sil. **Proceedings in International Symposium on Frontier Discoveries and Innovations in Microbiology and its interdisciplinary Relevance (FDMIR-2013)** at **Maharshi Dayanand University, Rohtak, Haryana**, India.
8. Microbial Community and Water Purification (2019). **Subhasis Sarkar**, Prosun Tribedi, Alok Kumar Sil. In: **National Symposium on "Biotechnology: How is it changing our lives?" at The Neotia University, Kolkata, West Bengal**.
9. The Dynamics of Microbial Functional Diversity during Sewage Purification at East Kolkata Wetland (2024). **Subhasis Sarkar**. International Conferences on "Scope of Microbiology beyond academia: industry entrepreneurship and more" at **Vijaygarh Jyotish Ray College, in Collaboration with Microbiologists Society of India & E-Yuva Centre, Adamas University (supported by BIRAC), Jadavpur, West Bengal**.
10. Microbial Biotechnology for Sustainable Environment (2022). Invited Lecture on National Science Day (February 28, 2022). Sree Chaitanya College, Habra, North 24 Pgs. West Bengal- 743268.
11. Bioremediation: A way forward towards sustainability of environment (2023). Extension Lecture Session. RKVM Sarada Ma Girl's College, Kolkata-700126.
12. Two Days Workshop Kalyani Mahavidyalaya jointly Organized by Kalyani Mahavidyalaya & SHRM Pvt Ltd.
13. National level training workshop entitled "Safety, health and environment" and honored to demonstrate the microbiology experimentation related to drinking water in 2007, arranged by National Institute for Teacher's Training and Research, Government of India.

RESEARCH COMMUNICATIONS

Published Articles

1. Sewage Treatment in a Single Pond System at East Kolkata Wetland, India (2010). **Sarkar S**, Ghosh PB, Mukherjee K, Sil AK, Saha T. Water Science and Technology. 60 (9):2309-17. **IF: 2.43**.
2. Assessment of Heavy metal pollution in Sewage-fed fishery pond surface sediments of East Kolkata Wetland, a Ramsar site in India (2011). **Sarkar S**, Ghosh P. B, Sil A.K and Saha T. Environmental Earth Sciences: 6(5): 915-924. **IF: 3.119**.
3. Heavy metal contamination in leaves of *Mangifera indica* around a coal fired thermal power plant in India (2011). Sengupta S., Chatterjee T., Ghosh P. B., **Sarkar S** and Saha T. Journal of Ecology and the Natural Environment. 3(14): 446-454.
4. Isolation of a novel *Pseudomonas* sp from soil that can efficiently degrade polyethylene succinate (2011). Prosun Tribedi, **Subhasis Sarkar**, Koushik Mukherjee and Alok K. Sil. Environmental Science and Pollution Research. 18 (1): 2115–2124. **IF: 5.19**.
5. Environmental Assessment in terms of Salinity Distribution in the Tropical Mangrove forest of Sundarban, North East Coast of Bay of Bengal, India (2013). **Subhasis Sarkar**, Phanibhusan Ghosh, Tulsi Prasad Das Mahapatra, Shrabani Som Mazumdar and Tapan Saha. Archives of Applied Science Research, 5 (6):109-118.
6. Suspended Particulate Matter Dynamics act as a driving force for Single Pond Sewage Stabilization System (2014). **Subhasis Sarkar**, Phani Bhusan Ghosh, Alok Kumar Sil, Tapan Saha. Ecological Engineering, 69: 206–212. **IF: 4.379**.
7. Saha, M., Sarkar, S., Sarkar, B., Sharma, B. K., Bhattacharjee, S., & Tribedi, P. (2016). Microbial siderophores and their potential applications: a review. Environmental Science and Pollution Research, 23, 3984-3999. **IF: 5.19**
8. Gupta, P., **Sarkar, S.**, Das, B., Bhattacharjee, S., & Tribedi, P. (2016). Biofilm, pathogenesis and prevention—a journey to break the wall: a review. Archives of microbiology, 198, 1-15. **IF: 2.667**.
9. Environmental variability of some edaphic components from virgin areas of tropical mangrove forest of Sundarban, India (2015). S Mukherjee, P Ghosh, **S Sarkar**, T Saha. Indian Journal of GeoMarine Science.
10. Sequential changes of microbial community composition during biological wastewater treatment in single unit waste stabilization system (2016). **Subhasis Sarkar**, Prosun Tribedi, Phanibhusan Ghosh, Tapan Saha, Alok Kumar Sil. Waste and Biomass Valorization 7:483-493. **IF:3.449**.
11. 3-Amino-4-Aminoximidofurazan derivatives: small molecules possessing antimicrobial and antibiofilm activity against *Staphylococcus aureus* and *Pseudomonas* S. Das, M. C., Paul, S., Gupta, P., Tribedi, P., Sarkar, S., Manna, D., & Bhattacharjee. Journal of Applied Microbiology. 120:842-859. . **IF:4.059**.
12. Phosphorous dynamics of the aquatic system constitutes an important axis for waste water purification in natural treatment pond(s) in East Kolkata Wetlands (2016). Anirban Das Gupta, **Subhasis Sarkar**, Phanibhusan Ghosh, Tapan Saha, Alok Kumar Sil. Ecological Engineering. 90:63-67. **IF:4.379**.

13. Microbial Functional Diversity Decreases with Sewage Purification in Stabilization Ponds (2016). Subhasis Sarkar, Prosun Tribedi, Anirban Das Gupta, Tapan Saha, Alok Kumar Sil. Waste and Biomass Valorization.7:1-7. **IF:3.449**

14. Nitrogen Dynamics of the aquatic System is an important driving force for efficient sewage purification in single pond natural treatment wetlands at East Kolkata Wetland (2016). Anirban Das Gupta, Subhasis Sarkar, Jayprakash Singh, Tapan Saha, Alok Kumar Sil. Chemosphere 164:576- 584. **IF: 8.943.**

15. Exploration of strategies to increase the nitrogen and phosphate content of solid waste landfill soil (2020). Poulomi Chakraborty, Rakshita Dave, Payel Paul, Sutirtha Dutta & Subhasis Sarkar & Prosun Tribedi. Environ Monit Assess. 192:245. **IF: 3.0.**

16. Cuminaldehyde exhibits potential antibiofilm activity against Pseudomonas aeruginosa involving reactive oxygen species (ROS) accumulation: a way forward towards sustainable biofilm management. (S Chatterjee, P Paul, P Chakraborty, S Das, RK Sarker, S Sarkar, A Das, 3 Biotech 11 (11), 1-12) (**IF: 2.893**).

17. Bioaugmentation of Enterobacter cloacae AKS7 causes an enhanced degradation of low-density polyethylene (LDPE) in soil (2021): a promising approach for the sustainable management of LDPE waste. (RK Sarker, P Chakraborty, S Sarkar, MM Ghosh, P Tribedi. Archives of Microbiology 204 (1), (1-12). (**IF: 2.667**)

18. Metabolic dynamics of soil microorganisms of the aquatic ecosystem is a key component for efficient sewage purification in single pond natural treatment wetlands at East Kolkata Wetland (2022). A Das Gupta, S Sarkar, J Singh, T Saha, AK Sil. Waste and Biomass Valorization, 1-14. **IF:3.449.**

19. Laha, A., **Sarkar, S.**, Sengupta, S., Das, A., Paul, S., & Bhattacharyya, S. (2024). Unraveling the potential of Acinetobacter calcoaceticus for arsenic resistance and plant growth promotion in contaminated lentil field. South African Journal of Botany, 168, 61-70.**IF:2.7.**

20. Ghosh, B., Ullah, Z., Sehar, T., & **Sarkar, S***. (2025). Piezoelectric sterilization techniques: from innovations to applications. *Frontiers in Chemistry*, 13, 1709575. (**IF:5.2**)

21. Tudu, N. K., Das, D., Ari, S., Sarkar, S., Sarkar, A., & Panja, A. S. (2026). Screening of prospective anti-allergic compounds as a common inhibitor for different proteinaceous allergens from animal. *Discover Chemistry*, 3(1), 207.

Conference Publication

1. Ghosh, A., Naskar, P., Dey, S., Mukherjee, S., Biswas, S., Das, R., Sarkar, S., Ghosh, S., Ghosh, B., Sarkar, S. The Key to A Sustainable Future - Algal Biofuel, Journal of Survey in Fishery Sciences. Vol. 10 No. 1S (Special issue 1), 6395-6400.
2. Nayak, S., Chakraborty, S., Roy, S., Roy, S., Ghosh, K., Ghorui, A., Sarkar, S., Ghosh, B., Ghosh, S., Sarkar, S. The Role of Plant Hormone on Root Development, Journal of Survey in Fishery Sciences. Vol. 10 No. 1S (Special issue 1), 6401 – 6407.
3. Ghosh, S., Ghosh, B., Ghosh, M., Paul, S., Pal, A., Dey, T., Sarkar, S., Ghosh, S., Ghosh, B., Sarkar, S. Phytoremediation- Friendlier and Affordable Approach to Remediate Heavy Metal Pollution, Journal of Survey in Fishery Sciences. Vol. 10 No. 1S (Special issue 1), 6291-6296.

4. Pal, N., Das, P., Dutta, R., Sarkar, S., Mukherjee, S., Devi, P., Mukherjee, M., Dhar, S., Ghosh, S., Sarkar, S., Sarkar, S., Ghosh, B. Water Reclamation Through Nano-remediation & Bioremediation: A Weal Against Conventional Chemical Techniques, *Journal of Survey in Fishery Sciences*. Vol. 10 No. 1S (Special issue 1), 6297-6305.
5. Banerjee, D., Sadhu, P., Das, S., Pal, S., Mitra, S., Ghosal, A., Sarkar, S., Ghosh, B., Ghosh, S., Sarkar, S. Phosphate Solubilizing Bacteria: A potential biotic component for solubilizing phosphate in soil and its application as Biofertilizer: A Review. *Journal of Survey in Fishery Sciences*. Vol. 10 No. 1S (Special issue 1), 6306-6315.
6. Biswas, D., Chourasia, A., Sasmal, A., Santra, S., Panigrahi, S., Kundu, M., Sarkar, S., Ghosh, B., Ghosh, S., Sarkar, S. Mycoremediation is a Potential Strategy for Environmental Clean-up of Heavy Metal: A Review, *Journal of Survey in Fishery Sciences*. Vol. 10 No. 1S (Special issue 1), 6316- 6327.
7. Sen, A., Mondal, I., Das, S., Roy, S., Mondal, M., Roy, R., Sarangi, S., Banerjee, S., Sarkar, S., Ghosh, B., Sarkar, S., Ghosh, S. Analytical approach of micro-RNA interaction study in ovarian cancer, *Journal of Survey in Fishery Sciences*. Vol. 10 No. 1S (Special issue 1), 6328- 6335.
8. Chakraborty, B., Gosai, R., Saha, D., Nayek, B., Biswas, P., Das Gupta, A., Ghosh, R., Ghosh, B., Sarkar, S., Sarkar, S., Ghosh, S. Structural and functional relationship study in plant salinity stress, *Journal of Survey in Fishery Sciences*. Vol. 10 No. 1S (Special issue 1), 6336- 6343.
9. Dalalthakur, S., Singh, P., Singh, S., Sasmal, A., Deb, T., Karmakar, S., Dasgupta, T., Sarkar, S., Sarkar, S., Ghosh, B., Ghosh, S. Role of pathogenesis-related (PR) proteins in plant microbes defense mechanism, *Journal of Survey in Fishery Sciences*. Vol. 10 No. 1S (Special issue 1), 6344- 6352.
10. Noor, S., Mondal, M., Singh, S., Sadhu, P., Chourasia, S., Patra, S., Ghosh, K., Pal, S., Sarkar, S., Sarkar, S., Ghosh, S., Ghosh, B. Scavenging of Waste Water Using Oyster Mushrooms, *Journal of Survey in Fishery Sciences*. Vol. 10 No. 1S (Special issue 1), 6364- 6371.
11. Saha, S., Devi, P., Das, S., Roy, S., Sing, P., Mitra, S., Banerjee, S., Mallick, J., Sarkar, S., Sarkar, S., Ghosh, S., Ghosh, B. Study About the Absorption Pattern of Soil Chromium By Perennial Flowering Herbs, *Journal of Survey in Fishery Sciences*. Vol. 10 No. 1S (Special issue 1), 6372- 6377.
12. Sharma, P., Das, S., Sadhu, P., Pal, S., Mitra, S., Ghoshal, A., Biswas, S., Roy, S., Sarkar, S., Ghosh, B., Ghosh, S., Sarkar, S. Therapeutic Role of Probiotics In Managing Various Diseases, *Journal of Survey in Fishery Sciences*. Vol. 10 No. 1S (Special issue 1), 6378-6380.
13. Ghoshal, A., Saha, P., Mallick, J., Sarkar, S., Chakraborty, M., Sarkar, S., Ghosh, B., Ghosh, S., Sarkar, S. Phytoremediation: A Way Forward Towards Heavy Metal Management, *Journal of Survey in Fishery Sciences*. Vol. 10 No. 1S (Special issue 1), 6381-6394.
14. Bidisha Ghosh, Monoswita Chakraborty, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar, & Suranjana Sarkar. (2023). Genetic Basis And Clinical Perspectives Of Breast Cancer. *Journal of Advanced Zoology*, 44(S6). <https://doi.org/10.53555/jaz.v44iS6.3708>
15. Santanu Biswas, Subhajit Pal, Sayani Das, Soumili Banerjee, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar, & Suranjana Sarkar. (2023). Microbial Plastic Degradation: Nature's Solution for Sustainable Waste Management. *Journal of Advanced Zoology*, 44(S6), 2315–2321. <https://doi.org/10.53555/jaz.v44iS6.3720>
16. Abhishek Ghoshal, Joydev Mallick, Suranjana Sarkar, Semanti Ghosh, Bidisha Ghosh, & Subhasis Sarkar. (2023). Efflux Pumps In Antimicrobial Resistance: Mechanism, Regulation And Therapeutic Implications. *Journal of Advanced Zoology*, 44(S5), 2575–2580. <https://doi.org/10.53555/jaz.v44iS5.3282>

17. Dipti Das, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar, & Suranjana Sarkar. (2023). Recombinant Protein Production: Advancements And Applications. *Journal of Advanced Zoology*, 44(S6), 2236–2242. <https://doi.org/10.53555/jaz.v44iS6.3706>
18. Sayantani Chakraborty, Sampanna Roy, Aayushee Chatterjee, Falguni Pal, Ritu Das, Puja Sadhu, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar, & Suranjana Sarkar. (2023). Exosomal RNA: Interplay and Therapeutic Potential. *Journal of Advanced Zoology*, 44(S6), 2309–2314. <https://doi.org/10.53555/jaz.v44iS6.3718>
19. Puja Sadhu, Suranjana Sarkar, Aritri Laha, Semanti Ghosh, Bidisha Ghosh, & Subhasis Sarkar. (2023). Oncolytic Viral Nanoparticles: A Combination Of Targeted And Immunotherapeutic Approach For Cancer Treatment: A Review. *Journal of Advanced Zoology*, 44(S5), 2537–2550. <https://doi.org/10.53555/jaz.v44iS5.3277>
20. Sulogna Mitra, Suranjana Sarkar, Debjit De, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar. (2023). MANAGEMENT OF MICROBIAL BIOFILM USING NANO PARTICLE: A REVIEW. *Journal of Advanced Zoology*, 44(S6), 2070–2080. <https://doi.org/10.17762/jaz.v44iS6.2696>
21. Prity Singh, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar, & Suranjana Sarkar. (2023). Application Of Genetic Engineering In Crop Improvement. *Journal of Advanced Zoology*, 44(S6), 2301–2308. <https://doi.org/10.53555/jaz.v44iS6.3717>
22. Sourav Banerjee, Suranjana Sarkar, Subhasis Sarkar, Bidisha Ghosh, & Semanti Ghosh. (2023). Biofertilizer and their importance in sustainable agriculture. *Journal of Advanced Zoology*, 44(S5), 2526–2529. <https://doi.org/10.53555/jaz.v44iS5.3222>
23. Sayani Da, Suranjana Sarkar, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar. (2023). GUT MICROBIOME AND HUMAN HEALTH: A REVIEW. *Journal of Advanced Zoology*, 44(S6), 2062–2069. <https://doi.org/10.17762/jaz.v44iS6.2695>
24. Sayani Das, Sulogna Mitra, Monalisa Mallik, Soumili Banerjee, Subhajit Pal, Abhijit Kumar, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar, & Suranjana Sarkar. (2023). Advancing Biomedical Frontiers: Unveiling The Potential Of 3d Bioprinting In Organ Regeneration. *Journal of Advanced Zoology*, 44(S5), 2488–2493. <https://doi.org/10.53555/jaz.v44iS5.3210>
25. Tilatoma Dasgupta, Bidisha Ghosh, Suranjana Sarkar, Subhasis Sarkar, & Semanti Ghosh. (2023). Tuberculosis - A multisystemic disease and antimicrobial resistance in Mycobacterium tuberculosis. *Journal of Advanced Zoology*, 44(S5), 2641–2645. <https://doi.org/10.53555/jaz.v44iS5.3304>
26. Ankit Pal, Shreyoshi Pal, Saikat Manna, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar, & Suranjana Sarkar. (2023). Unlocking The Potential of Phytochemicals in Anti-Diabetic Therapy: Mechanisms, Challenges, And Future Prospects. *Journal of Advanced Zoology*, 44(S6), 2284–2289. <https://doi.org/10.53555/jaz.v44iS6.3713>
27. Sahely Roy, Semanti Ghosh, Srijani Karmakar, Subhasis Sarkar, Suranjana Sarkar, & Bidisha Ghosh. (2023). Immunity Risk Associated with Cytomegalovirus Infection After Organ Transplantation. *Journal of Advanced Zoology*, 44(S5), 2451–2456. <https://doi.org/10.53555/jaz.v44iS5.3202>
28. Srijani Karmakar, Sahely Roy, Suranjana Sarkar, Bidisha Ghosh, Subhasis Sarkar, & Semanti Ghosh. (2023). Genetic Diagnosis of Vexas Syndrome: A New Rare And Deadly Autoinflammatory Disorder In Adults. *Journal of Advanced Zoology*, 44(S5), 2636–2640. <https://doi.org/10.53555/jaz.v44iS5.3302>
29. Anwesha Das, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar, & Suranjana Sarkar. (2023). Recombinant Hormones: Applications And Challenges. *Journal of Advanced Zoology*, 44(S6), 2279–2283. <https://doi.org/10.53555/jaz.v44iS6.3712>

30. Deeti Das, Sudipta Chakraborty, Moumita Mukherjee, Susoma Garai, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar, & Suranjana Sarkar. (2023). Revolutionizing the Biological Landscape: the Power of Genome Editing. Journal of Advanced Zoology, 44(S5), 2446–2450. <https://doi.org/10.53555/jaz.v44iS5.3199>.
31. Satabdi Dey, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar and Suranjana Sarkar.(2024) Analysis of pathogenic genes in dengue virus. Zoological and Entomological Letters 2024; 4(1): 67-70.ferees:

Book Chapter

1	Prospects and Challenges in Microbial Biodiesel Production. Biofuels	Biofuels	2024	e-Book ISBN 9781003350606	10.1201/9781003350606
2	Ecotoxicity Potential of Carbon and Metal Nanoparticles: Delving into the Darker Realm	SPRINGER NATURE	2025	978-981-97-9921-3	https://doi.org/10.1007/978-981-97-9922-0
3	A Weal Against Woe: Detection of Pharmaceutical Remnants in Water Using Nano Sensors	SPRINGER NATURE	2025	978-981-96-3944-1	https://doi.org/10.1007/978-981-96-3945-8
4	Reduction of Bacterial Diversity in Environment Due to Indiscriminate use of Antibiotics	BIOBRIDGES: Connecting Technology with the Future of Life	2025	978-93-5834-179-9 (Paperback ISBN) 978-93-5834-976-4 (E-reader ISBN)	https://doi.org/10.62778/int.book.535
5	Edible Films from Biodegradable Products in Minimizing Plastic Pollution	BIOBRIDGES: Connecting Technology with the Future of Life	2025	978-93-5834-179-9 (Paperback ISBN) 978-93-5834-976-4 (E-reader ISBN)	https://doi.org/10.62778/int.book.535
6	Single Cell Protein Production from Food Wastes: A Short Review	BIOBRIDGES: Connecting Technology with the Future of Life	2025	978-93-5834-179-9 (Paperback ISBN) 978-93-5834-976-4 (E-reader ISBN)	https://doi.org/10.62778/int.book.535

7	A Review on Antibacterial Activity of Bioactive Compound	BIOBRIDGES: Connecting Technology with the Future of Life	2025	978-93-5834-179-9 (Paperback ISBN) 978-93-5834-976-4 (E-reader ISBN)	https://doi.org/10.62778/int.book.535
8	Microbial Volatile Compounds: A Sneak Peek into Their Sources, Mechanism of Action & Applications	The Living World: Fundamentals of Life Sciences	2025	978-93-6135-585-1	https://doi.org/10.22271/ed.book.3190
9	An Overview of Cost-Effective Plant Based Diet in Mitigating Oxidative Stress	The Living World: Fundamentals of Life Sciences	2025	978-93-6135-585-2	https://doi.org/10.22271/ed.book.3190
10	Eco-Friendly Microbial Strategies for Heavy Metal Detox in Agroecosystem	The Living World: Fundamentals of Life Sciences	2025	978-93-6135-585-3	https://doi.org/10.22271/ed.book.3190
11	Dairy Product Fortification with Bioactive Nanoformulation	Bio-Architects: Designing with Nature's Smallest Tools	2025	978-93-6233-486-2 Paperback ISBN : 978-93-6233-431-2	https://doi.org/10.62906/bs.book.403
12	Targeting Pathogens with Predators: Advances in Bdellovibrio-Based Treatment Strategies	Bio-Architects: Designing with Nature's Smallest Tools	2025	978-93-6233-486-2 Paperback ISBN : 978-93-6233-431-2	https://doi.org/10.62906/bs.book.403
13	Recent Advances in Biofilm-Mediated Wastewater Treatment: A Concise Review	Bio-Architects: Designing with Nature's Smallest Tools	2025	978-93-6233-486-2 Paperback ISBN : 978-93-6233-431-2	https://doi.org/10.62906/bs.book.403
14	Role of Microbial Consortium in Waste Water Treatment	The Living Laboratory Biotechnology & Microbial Frontiers	2025	Paperback ISBN: 978-93-6135-365-9 EBook ISBN: 978-93-6135-634-6	https://doi.org/10.22271/ed.book.3211

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