

CURRICULUM VITAE

Mr. Rupesh Dutta Banik

[M.Sc. PhD (Pursuing 2022 batch)]

Teaching Assistant & Research Scholar
Department of Microbiology,
School of Life Sciences,
Swami Vivekananda University, Barrackpore



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OBJECTIVE

Seek a position as an **Assistant Professor** in the **department of Microbiology** at Swami Vivekananda University to utilize and hone my skills in academia, research that offers professional growth and knowledge while being resourceful, innovative, and flexible.

EXPERIENCES

- Teaching Assistant, Department of Microbiology, School of Life Sciences, Swami Vivekananda University, Barrackpore, India from April. 2023 – till now.
- Teaching staff, Department of Microbiology, Academic Institution for Education and Research (AIER), Kolkata, INDIA from March, 2022 – March, 2023.
- Product analyst (Intern), Arogyam Medisoft Solution Pvt. Ltd. Kolkata, India, 2023.
- One-day workshop on “Writing Research Grant Proposal” organized by Swami Vivekananda University.
- Hands-on training on Computer Aided Drug Designing, International workshop organized by Prescience Insilico Pvt. Ltd., Bangalore and Swami Vivekananda University.
- Hands-on training on Basic Molecular Biology Techniques organized by Departments of Microbiology and Biotechnology, Swami Vivekananda University in collaboration with Andragogy Life Sciences
- Hands on experience on research training programme, Department of zoology, University of Calcutta, Ballygunge Science College, 2023

ACADEMIC QUALIFICATIONS

Degree	Major Subject	School/College/Board/University	Passing Year	Percentage
PhD	Microbiology	Swami Vivekananda University	(Pursuing)	
M.Sc.	Microbiology	Swami Vivekananda University	2022	90.2%
B.Sc.	Biosciences (Physiology, Zoology, Botany)	City College, University of Calcutta	2020	75%
12 th	Physics, Chemistry, Mathematics, Biology	Sodepur High School, WBCHSE	2017	65%
10 th	-	Sodepur High School, WBBSE	2015	87%

AREA OF RESEARCH INTEREST

Environmental Microbiology: Microbial community profiling, Analysis of heavy metals and their concentrations in wastewater, Microbial bioremediation of heavy metals and their mechanisms.

PUBLICATIONS

Journal publications:

- Das, S., & **Banik, R. D. (2024)**. Microbial action to remediate petroleum-hydrocarbon contaminated soil. *Journal of Advances in Microbiology Research*, 5(1): 27-32, DOI: 10.22271/micro.2024.v5.i1a.129
- Bhowmick, T., & **Banik, R. D. (2024)**. Influence of alcohol on breast cancer risk. *International Journal of Oncology Research*, 4(1): 09-12, DOI: 10.33545/2664665X.2024.v4.i1a.12
- **Banik, R. D.**, Pal, P., & Baksi, S. (2023). GREEN STRATEGY FOR RECLAIMING ECOSYSTEM: MICROBIAL REMEDIATION OF LEATHER INDUSTRY WASTES. *Journal of survey in fisheries sciences*, 10(IS) 6432-6441, DOI: 10.53555/sfs.v10i1S.2161
- **Banik, R. D.**, Mandal, R. K., Pal, P., Das, B., Baksi S., & Ghosh, S. (2023). Phytotoxicity Study of Biogenic Mono-metallic and Bimetallic (Au-Ag) Alloy NPs. *Journal of Mines, Metals and Fuels*, 71(11): 0-0; 2023, DOI: 10.18311/jmmf/2023/36098
- **Banik, R. D.**, & Pal, P. (2023). Green approach to remediate leather industry waste using fungi. (Communicated)
- Nandi, P., & **Banik, R. D. (2023)**. TOXIC COMPONENTS OF PLASTIC POSE CARCINOGENIC THREAT TO PUBLIC HEALTH. *Journal of Advanced Zoology*, ISSN: 0253-7214, DOI: 10.17762/jaz.v44is6.2582
- **Banik, R. D.**, & Pal, P. (2023). Study Of Microbial Impact On Lead Remediation In Industrial Wastewater. *Journal Of Advanced Zoology*, 44(S5), DOI: 10.53555/jaz.v44iS5.3209
- Saha, T., & **Banik, R. D. (2023)**. INFLUENCE OF A POOR LIFESTYLE ON THE DEVELOPMENT OF CYSTS IN WOMEN. *Journal of Advanced Zoology*, ISSN: 0253-7214, DOI: 10.17762/jaz.v44iS6.2697
- **Banik, R. D.**, & Pal, P. (2023). MICROBIAL REMEDIATION AS AN EMERGING INDUSTRIAL WASTEWATER TREATMENT PROCESS FOR ARSENIC EXTENUATION, *Journal of Advanced Zoology*, 44(S6), 1621–1628, DOI: 10.53555/jaz.v44iS6.2581
- **Banik, R. D.**, Dutta, U., Sahani, S., Saha, S., Paul, S., Baksi, S., & Pal, P. (2023). Impact Of Chronic Arsenic Toxicity on Human Health-A Review. *Journal of Survey in Fisheries Sciences*, 10(IS) 6408-6413.

Book chapter:

- **Banik, R. D.**, Baksi, S., & Pal, P. (2024). Advanced strategies in microbial bioremediation of dyes from industrial wastewater. *Springer nature*. (Accepted)
- Nandi, P., & **Banik, R. D. (2024)**. Detrimental Effect of Maternal Smoking during Gestation on Offspring. *Microbes and Biotechnology: Real-World Applications*, ISBN: 978-93-5834-281-9, DOI: 10.62778/int.book.451
- Saha, A., Sardar, S., Sinha, A., & **Banik, R. D. (2024)**. Microbiome Based Biodiesel Production using Genetic Engineering. *Microbial Biotechnology in Industry and Medicine*, ISBN: 978-93-6233-478-7, DOI: 10.62906/bs.book.213
- Dey, D., & **Banik, R. D. (2024)**. Relationship between Gut Microbial Incidence and Metabolic Disorders in Human. *Interdisciplinary Review Articles*, ISBN: 978-93-6135-236-2, DOI: 10.22271/ed.book.2879

- **Banik, R. D.**, Saha, A., Sinha, A., & Pal, P. (2024). Chromium Remediation from Leather Industry Wastewater: The Microbial Approach. *Microbes and Biotechnology: Real-World Applications*, ISBN: 978-93-5834-281-9, DOI: 10.62778/int.book.451
- **Banik, R. D.**, De, D., & Pal, P. (2023). Horizontal Gene Transfer in the Evolution of Microbial Genomes. *MICROBIOME: PRINCIPLES AND EXPLORATIONS*, ISBN: 978-93-5980-246-6
- Pal, P., De D, **Banik, R. D.**, & Paul, S. (2023). An overview of the mechanistic approach to RNA interference. *FRONTIERS IN BIOTECHNOLOGY: EMERGING APPROACHES AND STRATEGIES*, ISBN: 978-93-5980-245-9
- De, D., Pal, P., **Banik, R.D.**, Paul, S. (2023). UNRAVELING THE WONDERS OF GENOME SEQUENCING AND IT'S ADVANCE METHOD NEXT GENERATION SEQUENCING. *FRONTIERS IN BIOTECHNOLOGY: EMERGING APPROACHES AND STRATEGIES*, ISBN: 978-93-5980-245-9

CONFERENCES ATTENDED AND PRESENTATIONS

- 10th International Conference on Environment and Ecology (ICEE 2024) (Oral presentation)
- DST-SERB Sponsored National Conference on Zoology for Ecosystem and Human Health, 2024 (poster presentation)
- International Conference on Technological Interventions in Agriculture, Life Sciences and Food & Nutrition-ICALF 2024 (oral presentation)
- 6th Regional Science and Technology Congress, 2023-24 (oral presentation)
- International Conference on Scientific Advances in Life sciences, Agriculture and Food & Nutrition, 2023 (oral presentation)
- International Conference on Technological Interventions in Agriculture, Life Sciences and Food & Nutrition-ICALF 2023 (oral presentation)
- National Conference on Technological Interventions in Life sciences (oral presentation)
- International Conference on Engineering Design and Computing (oral presentation)
- Poster presentation on Metastasis: a staircase to severity
- 2nd Annual Conference on Biological Sciences in the modern era: current trends and future challenges (oral presentation)

MEMBERSHIP

Global Outreach – Contributing Member of the **American Society for Microbiology (ASM)**

TECHNICAL KNOWLEDGE

Microsoft office (Word, PowerPoint, Outlook & Excel), Google

PERSONAL INFORMATION

- Name : Mr. Rupesh Dutta Banik
- Father's Name : Mr. Himangshu Dutta Banik
- Mother's Name : Mrs. Rinku Dutta Banik
- Brother's / Sister's Name : Mr. Himesh Dutta Banik (elder brother)
- Date of Birth : 13th July, 1999
- Gender : Male

- Marital Status : Unmarried
- Nationality : Indian
- Category : General
- Language Known : Bengali, English, Hindi
- Permanent Address : C/197, Tirtha Bharati, Sodepur, North 24 Parganas,
West Bengal, Kol-700110, India.

HOBBIES

Reading books, painting, hand crafting, singing, travelling

DECLARATION

I hereby declare that all statements and information provided in this Curriculum Vitae are true, complete and correct to the best of my knowledge and belief.

Date: 22.01.2025

Rupesh Dutta Banik
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