

**: FACULTY DETAILED RESEARCH DATA:**

**Name of the Faculty:** Mr. Rupesh Dutta Banik

**Designation:** Teaching Assistant

**Department:** Microbiology

**School:** School of Life Sciences

**Research Area:** Environmental microbiology (Microbial community profiling, Analysis of heavy metals and their concentrations in wastewater, Microbial bioremediation of heavy metals and their mechanisms)

**Details of research portfolio of faculty:**

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

Google Scholar ID:

Orchid ID:

Scopus ID

Vidwan ID.:594422

**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 2024             | Microbial action to remediate petroleum-hydrocarbon contaminated soil | 15-01-2024                  | Sohani Das and Rupesh Dutta Banik       | International           | 10.22271/micro.2024.v5.i1a.129   | 2709-9431     |
| 2       | ICALF 2024             | Influence of alcohol on breast cancer risk                            | 21-12-2023                  | Tanisha Bhowmick and Rupesh Dutta Banik | International           | 10.33545/2664665X.2024.v4.i1a.12 | 2664-6668     |
| 3       | ICALF 2024             | GREEN STRATEGY FOR RECLAIMING                                         | 2024                        | Rupesh Dutta Banik, Pritha              | International           | 10.53555/sfs.v10i1S.2161         | 6432 - 6441   |

|   |               |                                                                                                                                 |                         |                                                                                       |               |                              |           |
|---|---------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------------------------------------------------------------------|---------------|------------------------------|-----------|
|   |               | ECOSYSTEM:<br>MICROBIAL<br>REMEDIATION<br>OF LEATHER<br>INDUSTRY<br>WASTES                                                      |                         | Pal, Sibashish<br>Baksi                                                               |               |                              |           |
| 4 | ICSA 2023     | TOXIC<br>COMPONENTS<br>OF PLASTIC<br>POSE<br>CARCINOGENI<br>C THREAT TO<br>PUBLIC<br>HEALTH                                     | 02 Nov<br>2023          | Priti Nand,<br>Rupesh Dutta<br>Banik                                                  | International | 10.17762/jaz.v4<br>4iS6.2582 | 0253-7214 |
| 5 | ICSA 2023     | Study Of<br>Microbial Impact<br>On Lead<br>Remediation In<br>Industrial<br>Wastewater                                           | 30/10/20<br>23          | Rupesh Dutta<br>Banik, Pritha<br>Pal                                                  | International | 10.53555/jaz.v4<br>4iS5.3209 | 0253-7214 |
| 6 | ICSA 2023     | INFLUENCE OF<br>A POOR<br>LIFESTYLE ON<br>THE<br>DEVELOPMENT<br>OF CYSTS IN<br>WOMEN.                                           | 02<br>Novembe<br>r 2023 | Tiyasha Saha<br>and Rupesh<br>Dutta Banik                                             | International | 10.17762/jaz.v4<br>4iS6.2697 | 0253-7214 |
| 7 | ICSA 2023     | MICROBIAL<br>REMEDIATION<br>AS AN<br>EMERGING<br>INDUSTRIAL<br>WASTEWATER<br>TREATMENT<br>PROCESS FOR<br>ARSENIC<br>EXTENUATION | 02<br>Novembe<br>r 2023 | Rupesh Dutta<br>Banik, Pritha<br>Pal                                                  | International | 10.53555/jaz.v4<br>4iS6.2581 | 0253-7214 |
| 8 | ICALF<br>2023 | Impact Of<br>Chronic Arsenic<br>Toxicity on<br>Human Health-A<br>Review                                                         | 4 Jun<br>2023           | Rupesh Dutta<br>Banik, Uparna<br>Dutta, Sneha<br>Sahani,<br>Shreya Saha,<br>Subhankar | International |                              | 6408-6413 |

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|--|--|--|--|--------------------------------------------|--|--|--|
|  |  |  |  | Paul,<br>Sibashish<br>Baksi, Pritha<br>Pal |  |  |  |
|--|--|--|--|--------------------------------------------|--|--|--|

## 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 <sup>st</sup> author in every article)                              | doi number               | Issue No. & Volume No. | Page no. | ISSN of the journal |
|--------|------------------------------------------|--------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------|----------|---------------------|
| 1      | Journal of Mines, Metals and Fuels       | Phytotoxicity Study of Biogenic Mono-metallic and Bimetallic (Au-Ag) Alloy NPs | November 2023               | <b>Rupesh Dutta Banik</b> , Rakesh Kumar Mandal, Bubai Das, Pritha Pal, Sibashish Baksi, and <b>Sabyasachi Ghosh*</b> | 10.18311/jmmf/2023/36098 | 71(11)                 |          | 0022-2755           |

## 3. Book chapter:

| Sl. No. | Title of the book                                                    | Publishers              | Author(s) Name (Highlight the corresponding and 1 <sup>st</sup> author in every article) | Year             | ISBN No.          | doi no. (if applicable)   |
|---------|----------------------------------------------------------------------|-------------------------|------------------------------------------------------------------------------------------|------------------|-------------------|---------------------------|
| 1       | Biotechnological Interventions in the Removal of Emerging Pollutants | Springer nature         | <b>Rupesh Dutta Banik</b> , Sibashish Baksi, <b>Pritha Pal*</b>                          | 25 February 2025 | 978-981-97-9921-3 | 10.1007/978-981-97-9922-0 |
| 2       | The Living World: Fundamentals of Life Sciences                      | Akinik Publications     | <b>Diptika Dey</b> , Swastika Dutta, <b>Rupesh Dutta Banik*</b>                          | 2025             | 978-93-6135-276-8 | 10.22271/ed.book.3190     |
| 3       | The Living World: Fundamentals of Life Sciences                      | Integrated Publications | <b>Sagnik Sardar</b> , Sanjukta Banerjee, <b>Rupesh Dutta Banik*</b>                     |                  | 978-93-6135-276-8 | 10.22271/ed.book.3190     |

|    |                                                                |                              |                                                                                                  |      |                   |                       |
|----|----------------------------------------------------------------|------------------------------|--------------------------------------------------------------------------------------------------|------|-------------------|-----------------------|
| 4  | Biobridges: Connecting Technology with the future of Life      |                              |                                                                                                  | 2025 | 978-93-5834-976-4 | 10.62778/int.book.535 |
| 5  | Microbes and Biotechnology: Real-World Applications            | Integrated Publications      | <b>Priti Nandi, Rupesh Dutta Banik*</b>                                                          | 2024 | 978-93-5834-281-9 | 10.62778/int.book.451 |
| 6  | Microbial Biotechnology in Industry and Medicine               | Bright Sky Publications      | <b>Akash Saha</b> , Sagnik Sardar, Addityaa Sinha, Sanjukta Banerjee, <b>Rupesh Dutta Banik*</b> | 2024 | 978-93-6233-478-7 | 10.62906/bs.book.213  |
| 7  | Interdisciplinary Review Articles                              | Akinik Publications          | <b>Diptika Dey, Rupesh Dutta Banik*</b>                                                          | 2024 | 978-93-6135-236-2 | 10.22271/ed.book.2879 |
| 8  | Microbes and Biotechnology: Real-World Applications            | Integrated Publications      | <b>Rupesh Dutta Banik</b> , Akash Saha, Addityaa Sinha, <b>Pritha Pal*</b>                       | 2024 | 978-93-5834-281-9 | 10.62778/int.book.451 |
| 9  | MICROBIOME: PRINCIPLES AND EXPLORATIONS                        | Swami Vivekananda University | <b>Rupesh Dutta Banik</b> , Debjit De, Priyankar Pal                                             | 2023 | 978-93-5980-246-6 |                       |
| 10 | FRONTIERS IN BIOTECHNOLOGY: EMERGING APPROACHES AND STRATEGIES | Swami Vivekananda University | <b>Priyankar Pal</b> , Debjit De, Rupesh Dutta Banik, Shantanu Pal                               | 2023 | 978-93-5980-245-9 |                       |
| 11 | FRONTIERS IN BIOTECHNOLOGY: EMERGING APPROACHES AND STRATEGIES | Swami Vivekananda University | <b>Debjit De</b> , Priyankar Pal, Rupesh Dutta Banik, Shantanu Pal                               | 2023 | 978-93-5980-245-9 |                       |

**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 <sup>st</sup> author in every article) | Year | ISBN No. | doi no. (if applicable) |
|---------|----------------------------------|------------|------------------------------------------------------------------------------------------|------|----------|-------------------------|
|         |                                  |            |                                                                                          |      |          |                         |

**4. Project granted:**

| <b>Sl. No</b> | <b>Sponsoring Agency</b> | <b>Name of the project</b> | <b>Du ation</b>                  |                                | <b>Amount in Lakhs</b> | <b>PI/ CO-PI</b> |
|---------------|--------------------------|----------------------------|----------------------------------|--------------------------------|------------------------|------------------|
|               |                          |                            | <b>Starting Month &amp; Year</b> | <b>Ending month &amp; Year</b> |                        |                  |
|               |                          |                            |                                  |                                |                        |                  |

**5. Consultancy Project Grant:**

| <b>Sl No.</b> | <b>Project title</b> | <b>Funding Agency</b> | <b>Duration</b> | <b>Completed (yes/no)</b> | <b>Sanctioned amount (in Rs.)</b> | <b>PI and CO-PI (if any)</b> |
|---------------|----------------------|-----------------------|-----------------|---------------------------|-----------------------------------|------------------------------|
|               |                      |                       |                 |                           |                                   |                              |

**6. Patent/IPR granted:**

| <b>Sl. No.</b> | <b>Name of the patent</b> | <b>Name of the applicant</b> | <b>Name of the inventor</b> | <b>Date of File</b> | <b>Date of Publication</b> | <b>Whether Granted (yes/no); If yes, Date of Grant</b> | <b>Application No.</b> |
|----------------|---------------------------|------------------------------|-----------------------------|---------------------|----------------------------|--------------------------------------------------------|------------------------|
|                |                           |                              |                             |                     |                            |                                                        |                        |

**8.**