

## PERSONAL PROFILE

**Dr. ARINDAM GANGULY**  
**SACT-I & Head**  
**Department of Microbiology**  
**Bankura Sammilani College**

### Address:

**Address for Communication:** DEPARTMENT OF MICROBIOLOGY  
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### Personal Detail:

**Contact Number:** 6294214007

**Email Id:** [arindam.microbiology@gmail.com](mailto:arindam.microbiology@gmail.com)

**Date of Birth:** 24<sup>th</sup> February, 1984

**Date of Joining:** 04.12.2008

**Web Page Link:** <https://scholar.google.co.in/citations?user=W8KfYBsAAAAJ&hl=en>

<https://www.researchgate.net/profile/Arindam-Ganguly-3>>Arindam Ganguly

### Educational Qualification:

**Ph.D.:** Ph.D. degree from Vidyasagar University in the year of 2020.

**M.Sc.:** M.Sc. in Microbiology from Bangalore University in the year of 2006.

**Area of Teaching:** Medical Microbiology, Immunology, Virology etc.

**Research Interest:** Probiotics, Environmental Microbiology, Fermented Food, Biofertilizers, Vaccine.

### Research Guidance:

Courses	Name of the University/ College/ Institution	Duration
P.G. (M.Sc.) Botany	Worked as co-guide of two P.G. students of Botany department, Ramananda College, Bishnupur.	P.G. 4 <sup>th</sup> Semester 01.01.19 to 30.06.19
B. Tech Degree in Biotechnology	Worked as guide of a student of Kalinga Institute of Industrial technology, Odisha in One-month summer internship program	22.05.2023 to 21.06.2023
U.G (B.Sc.) Microbiology	Worked as guide of ten project works in the Microbiology Department.	01.01.2018 to till date

**Title of Doctoral thesis:**

**Assessment of Growth and Nutrient Status of Indigenous Fresh Water Catfish (*Clarias batrachus* Linn.) in relation to the application of newly isolated Probiotics**

**Award / Fellow / Recognition:**

**World Scientist and University Rankings 2024 by AD Scientific Index Position in Microbiology: 376 (Country)**

<https://www.adscientificindex.com/scientist/arindam-ganguly/4653528>

**Member of Professional Body / Editorial Board:****State Co-ordinator**

- Microbiologist Society, India (MBSI).

**Life Member**

- Biotech Research Society, India (BRSI).
- Microbiologist Society, India (MBSI).

**Reviewer of Journals:**

1. **Current research in microbial sciences (ELSEVIER)**
2. **Journal of ethnic foods (BMC Springer)**
3. **National Academy Science letter (Springer)**
4. **Biomass Conversion and Biorefinery (Springer)**
5. **Notulae Scientia Biologicae**

**Faculty Development Courses / Workshop/ Training Undertaken:**

Name of the Course / Program	Venue	Duration
Electron Microscopy and its application in Material Science and Biological Science	Jadavpur University & IICB	29 <sup>th</sup> to 30 <sup>th</sup> January, 2018.
Current trends of Biological Research at Crosswords of Science.	Vidyasagar University	17 <sup>th</sup> to 23 <sup>rd</sup> March, 2013.
Biopharmaceutical Analysis under the purview of Bioequivalence, Toxicity Study and Clinical Trials (Certificate course ISO-9001:2000)	Jadavpur University	June to July, 2008.
Vaccine Production & Quality Control Analysis	Serum Institute of India Research Foundation	26.07.2006 to 25.08.2006.

**Invited Lecture**

Sl. No	Seminar/ Workshop	Venue	Date	State/ National/ International	Sponsoring Agency
1.	Microbial Technology for Health, Environment and Employment	Vidyasagar University	7 <sup>th</sup> -9 <sup>th</sup> March, 2025	National	iNSERB
2.	Health & Hygiene	Keshia Saroj High School	14 <sup>th</sup> -15 <sup>th</sup> Sep, 2022	State	WBDST DBT
3.	Science for sustainable development	Keshia Saroj High School	8 <sup>th</sup> Sep, 2017	State	West Bengal State Council of Science and Technology DBT

**National / International Publications:**

Sl. No.	Title, Authors, Journal, Publishing year	ISSN / ISBN Number
1.	<p><b>A review on menstrual health in adolescent girls emphasizing multi-omics and machine learning strategies for preventing reproductive tract infections</b>  Mousumi Ganguly, <b>Arindam Ganguly</b>, Sourav Chattaraj, Dipak K. Midya  22: 105 (2025)  <i>Discover Public Health; Springer nature</i> (IF: 4.1)  <a href="https://doi.org/10.1186/s12982-025-00485-x">https://doi.org/10.1186/s12982-025-00485-x</a></p>	<p>ISSN: 3005-0774</p> 
2.	<p><b>Pioneering zero-waste technologies utilization and its framework on sustainable management: international, national and state level</b>  Rahul Kumar, Gauranshi Gupta, Aisha Hussain, Anju Rani, Ashish Thapliyal, Divya Gunsola, Sourav Chattaraj, <b>Arindam Ganguly</b>, Periyasamy Panneerselvam, Beatriz E. Guerra-Sierra, Debasis Mitra  7: 224 (2025)  <i>Discover Applied Sciences; Springer nature</i> (IF: 2.8; Cite Score: 7)  <a href="https://doi.org/10.1007/s42452-025-06693-z">https://doi.org/10.1007/s42452-025-06693-z</a></p>	<p>ISSN: 3004-9261</p> 
3.	<p><b>Harnessing microbe-based soil inoculums, strigolactones, and nanotechnology for sustainable agriculture: Mechanisms, innovations, and challenges</b>  Sourav Chattaraj; Debasis Mitra; <b>Arindam Ganguly</b>; Pradeep K. Das Mohapatra, Hrudayanath Thatoi  2025  <i>Pedosphere; ELSEVIER</i> (IF: 5.2; Cite Score: 11.7)  <a href="https://doi.org/10.1016/j.pedsph.2025.01.002">https://doi.org/10.1016/j.pedsph.2025.01.002</a></p>	<p>ISSN: 2210-5107</p> 
4.	<p><b>Employing plant growth-promoting rhizobacteria for abiotic stress mitigation in plants: with a focus on drought stress</b>  Sourav Chattaraj; Aurodeepa Samantaray; <b>Arindam Ganguly</b>; Hrudayanath Thatoi  7: 68 (2025)  <i>Discover Applied Sciences; Springer nature</i> (IF: 2.8; Cite Score: 7)  <a href="https://doi.org/10.1007/s42452-025-06468-6">https://doi.org/10.1007/s42452-025-06468-6</a></p>	<p>ISSN: 3004-9261</p> 
5.	<p><b>Brewers' spent grain as fish feed ingredient: Evaluation of bio-safety and analysis of its impact on gut bacteria of <i>Cirrhinus reba</i> by 16S Metagenomic sequencing</b>  Sourav Chattaraj; Debasis Mitra; Manasi Chattaraj, <b>Arindam Ganguly</b>; Hrudayanath Thatoi; Pradeep K. Das Mohapatra  <i>Current Research in Microbial Sciences; ELSEVIER</i> (IF: 4.8; Cite Score: 7.9)  <a href="https://doi.org/10.1016/j.crmicr.2024.100286">https://doi.org/10.1016/j.crmicr.2024.100286</a></p>	<p>ISSN: 2666-5174</p> 
6.	<p><b>Advances in microbial based bio-inoculum for amelioration of soil health and sustainable crop production</b>  Aurodeepa Samantaray; Sourav Chattaraj; Debasis Mitra; <b>Arindam Ganguly</b>; Rahul Kumar; Ashish Gaur; Pradeep K. Das Mohapatra; Sergio de los Santos-Villalobos; Anju Rani; Hrudayanath Thatoi  <i>Current Research in Microbial Sciences; ELSEVIER</i> (IF: 4.8; Cite Score: 7.9). <a href="https://doi.org/10.1016/j.crmicr.2024.100251">https://doi.org/10.1016/j.crmicr.2024.100251</a></p>	<p>ISSN: 2666-5174</p> 
7.	<p><b>16S amplicon sequencing of the gastrointestinal microbiota of <i>Cirrhinus reba</i> and isolation of an autochthonous probiotic using culture based approaches</b>  Sourav Chattaraj; Debasis Mitra; <b>Arindam Ganguly</b>; Pradeep K. Das Mohapatra; Hrudayanath Thatoi  <i>Systems Microbiology and Biomanufacturing; Springer nature</i> (Cite Score: 4.225)  <a href="https://doi.org/10.1007/s43393-024-00285-5">https://doi.org/10.1007/s43393-024-00285-5</a></p>	<p>ISSN: 2662-7663</p> 

8.	<p><b>Effect of three probiotic <i>Bacillus</i> strains supplemented feeds on growth, carcass composition and blood parameters of <i>Clarias magur</i> (Hamilton)</b>  <b>Arindam Ganguly</b>, Sourav Chattaraj, Mousumi Ganguly, Manasi Chattaraj, Amrita Banerjee, Asish Mandal, Mohammad Ali Khan, Sudip Kumar Sen &amp; Pradeep Kumar Das Mohapatra  <i>Journal of Applied Aquaculture; Taylor &amp; Francis</i> (IF: 1.2)  37(1), 19–44. 2024.  <a href="https://doi.org/10.1080/10454438.2024.2330499">https://doi.org/10.1080/10454438.2024.2330499</a></p>	<p>ISSN:1545-0805</p>  <p>Taylor &amp; Francis</p>
9.	<p><b>Production and Optimization of Xylanase Enzyme from <i>Bacillus cereus</i> BSA1 by Submerged Fermentation</b>  <b>Arindam Ganguly</b>, Asish Mandal  <i>International Research Journal of Basic and Applied Science</i>  2024.  9: 13-20.</p>	<p>ISSN: 2455-6718</p>
10.	<p><b>Menstruation in Adolescent Girls: Myths &amp; Taboos</b>  Mousumi Ganguly, Sila Jana, <b>Arindam Ganguly</b>, Dipak K. Midya  Acta Biologica Slovenica  2024.  <a href="https://doi.org/10.14720/abs.67.2.18725">https://doi.org/10.14720/abs.67.2.18725</a></p>	<p>ISSN:1854-3073</p>
11.	<p><b>Appraisal of Ethno-veterinary practices used for different livestock ailments in rural and periurban areas of Purba Bardhaman, West Bengal, India</b>  Suvendu Pal, Pritish Mitra, Somen Dey, <b>Arindam Ganguly</b>, Asish Mandal  Ethnobotany Research and Applications  2024.  <a href="http://dx.doi.org/10.32859/era.27.30.1-21">http://dx.doi.org/10.32859/era.27.30.1-21</a></p>	<p>ISSN:1547-3465</p> 
12.	<p><b>A detailed survey on fungal distribution and characterization under Bankura District, West Bengal, India</b>  Pabitra Mukhopadhyay, <b>Arindam Ganguly</b>, Rebeca Ghanta, Shyamal Kanti Mallick, Asish Mandal, Samir Kumar Mukherjee  Acta Biologica Slovenica  2024.  <a href="https://doi.org/10.14720/abs.67.2.18621">https://doi.org/10.14720/abs.67.2.18621</a></p>	<p>ISSN: 1854-3073</p>
13.	<p><b>A critical review on the biotechnological potential of Brewers' waste: Challenges and future alternatives</b>  Sourav Chattaraj, Debasis Mitra, <b>Arindam Ganguly</b>, Hrudayanath Thatoi, Pradeep K. Das Mohapatra  <i>Current Research in Microbial Sciences; ELSEVIER</i> (IF: 4.8; Cite Score: 7.9)  6: 2024.  <a href="https://doi.org/10.1016/j.crmicr.2024.100228">https://doi.org/10.1016/j.crmicr.2024.100228</a></p>	<p>ISSN: 2666-5174</p>  <p>ELSEVIER</p>
14.	<p><b>Study of intestinal bacteria of <i>Cirrhinus reba</i> and characterization of a new probiotic bacteria: An initiative to save the threatened species of <i>Cirrhinus</i></b>  Chattaraj S, <b>Ganguly A</b>, Das Mohapatra PK  <i>Applied Biochemistry and Microbiology; Springer nature</i> (IF: 1.1)  59 (6): 833–849, 2023.  <a href="https://doi.org/10.1134/S0003683823060248">https://doi.org/10.1134/S0003683823060248</a></p>	<p>ISSN: 0003-6838</p>  <p>Springer</p>
15.	<p><b>Anti-oncogenic potential of probiotics: Challenges and future prospective</b>  Chattaraj S, Mitra D, Chattaraj A, Chattaraj M, Kundu M, <b>Ganguly A</b>, Das Mohapatra PK  <i>Indian Journal of Microbiology Research</i>  10 (1): 1-10, 2023.  <a href="https://doi.org/10.18231/j.ijmr.2023.001">https://doi.org/10.18231/j.ijmr.2023.001</a></p>	<p>ISSN: 2394-546X</p>
16.	<p><b>A review of the role of probiotics for the control of viral diseases in aquaculture. 2022.</b>  Chattaraj S, <b>Ganguly A</b>, Mandal A, Das Mohapatra PK</p>	<p>ISSN: 1573-143X</p>

	<b>Aquaculture International; Springer nature</b> (IF: 2.9) <a href="https://doi.org/10.1007/s10499-022-00915-6">https://doi.org/10.1007/s10499-022-00915-6</a>	
17.	<b>Ichthyodiversity and water quality parameters of Uttar Dinajpur, West Bengal, India</b> Sarkar A, Chattaraj S, Chattaraj M, Maity S, <b>Ganguly A</b> , Nandi B, Pahari PR, Duari (Rakshit) M, Das Mohapatra PK <b>North-Western Journal of Zoology</b> (IF: 0.733) 18 (2): 151-160, 2022.	ISSN: 1843-5629
18.	<b>Traditional Fishing Gears of Bankura District, WB, India: Some Uniqueness In Fish Catching</b> <b>Ganguly A</b> , Konar U, Kundu A, Chatterjee S, Nandi S, Guin RK, Duari M, Mandal A, Das Mohapatra PK <b>Notulae Scientia Biologicae</b> (Cite Score: 1.1) 14 (1), 1-18, 2022. <a href="https://doi.org/10.15835/nsb14111132">https://doi.org/10.15835/nsb14111132</a>	ISSN: 2067-326 
19.	<b>Diversity and distribution of wild mushrooms in different forest areas of Bankura district, WB, India</b> <b>Ganguly A</b> , Nad S, Singha K, Pathak R, Hazra P, Singha P, Dhua P, Das Mohapatra PK, Mandal A <b>Acta Biologica Szegediensis; Hungary</b> (IF: 0.645) 65(2):185-198, 2021. <a href="https://doi.org/10.14232/abs.2021.2.185-198">https://doi.org/10.14232/abs.2021.2.185-198</a>	ISSN: 15884082
20.	<b>The prevalence, preventive measures and economic impact of pandemic COVID-19 in India: the initial phase</b> <b>Ganguly A</b> , Konar U, Kundu A, Ghosh S, Chatterjee I, Nad S, Chatterjee S, Nandi S, Singha S, Kali S <b>Acta Biologica Szegediensis; Hungary</b> (IF: 0.645) 64(1):43-61, 2020. <a href="https://doi.org/10.14232/abs.2020.1.43-61">https://doi.org/10.14232/abs.2020.1.43-61</a>	ISSN: 1588-4082
21.	<b>Isolation and characterization of bacteria from the intestine of Clarias batrachus for probiotic organism</b> <b>Ganguly A</b> , Banerjee A, Mandal A, Khan MA, Das Mohapatra PK <b>Proceedings of the Zoological Society; Springer</b> (IF: 0.712) 72(4):411-419, 2019. <a href="https://doi.org/10.1007/s12595-018-0283-x">https://doi.org/10.1007/s12595-018-0283-x</a>	ISSN: 0373-5893 
22.	<b>Study of bile salt hydrolase in Lysinibacillus sphaericus: A potent fish probiotic and its in silico structure prediction for catalytic interaction</b> <b>Ganguly A</b> , Banerjee A, Mandal A, Das Mohapatra PK <b>Romanian Archives of Microbiology and Immunology; Romania</b> 78(2):81-90, 2019.	ISSN:1222-3891
23.	<b>Probiotic-based cultivation of Clarias batrachus: importance and future perspective</b> <b>Ganguly A</b> , Banerjee A, Mandal A, Das Mohapatra PK <b>Acta Biologica Szegediensis; Hungary</b> (IF: 0.645) 62(2):158-168, 2018. <a href="https://doi.org/10.14232/abs.2018.2.158-168">https://doi.org/10.14232/abs.2018.2.158-168</a>	ISSN: 15884082
24.	<b>Study of indigenous freshwater fish diversity of Bankura (West Bengal), India with special reference to Clarias batrachus</b> <b>Ganguly A</b> , Banerjee A, Mandal A, Dutta TK, Das Mohapatra PK <b>Journal of Applied and Natural Science</b> (Cite Score: 0.8) 10(4):1162 -1172, 2018. <a href="https://doi.org/10.31018/jans.v10i4.1892">https://doi.org/10.31018/jans.v10i4.1892</a>	ISSN: 09749411 
25.	<b>Optimization of effective dose of a newly isolated probiotic bacteria for growth and disease resistance of Clarias batrachus (Linn.)</b> <b>Ganguly A</b> , Banerjee A, Mandal A, Das Mohapatra PK <b>Research journal of Life sciences, Bioinformatics, Pharmaceutical and Chemical sciences</b> 4(4):344-354, 2018.	ISSN: 24546348

26.	<b>Investigation of Alkaline Phosphatase Enzyme of A Novel Bacillus Species Isolated from Rhizospheric Soil of Potato Field</b> Bhattacharjee M, Banerjee M , Mitra P, <b>Ganguly A</b> <b>Research journal of Life sciences, Bioinformatics, Pharmaceutical and Chemical sciences</b> 4(2): 129-144, 2018.	ISSN: 24546348
27.	<b>Study of physico-chemical parameters, planktonic diversity and bacterial load of <i>Clarias batrachus</i> cultivation pond at Bankura, WB, India</b> <b>Ganguly A</b> , Mandal A, Khan MA, Dutta TK, Raha S, Das Mohapatra PK <b>International Research Journal of Biological sciences</b> 6(12):23-34, 2017.	ISSN: 22783202
28.	<b>Assessment of nutritional status and socio-economic conditions of terracotta artisans of Panchmura, West Bengal</b> Ganguly M, Patsa MK, Chowdhury P, <b>Ganguly A</b> <b>International Journal of Development Research</b> 6(5):7741-7747, 2016.	ISSN: 2230-9926
29.	<b>Assessment of nutritional status, socio-economic conditions &amp; occupational health hazards of conch shell workers of Bankura</b> Ganguly M, Daripa A, Patsa MK, <b>Ganguly A</b> <b>International Journal of Current Research</b> 8(3):28530-28536, 2016.	ISSN: 0975-833X
30.	<b>An Insight to the bell metal industry of Bankura, West Bengal, India</b> Ganguly M, Patsa MK, Ghosh A, <b>Ganguly A</b> <b>International Journal of Life Sciences</b> 5(2):105-111, 2016.	ISSN: 2277-193X
31.	<b>Assessment of nutritional status, socio-economic conditions and occupational health hazards of terracotta artisans of Bishnupur, West Bengal, India</b> <b>Ganguly A</b> , Ganguly M, Chowdhury P, Patsa MK <b>International Journal of Life Sciences</b> 5(2):129-135, 2016.	ISSN: 2277-193X
32.	<b>From Courtly Craze to Coasters: A Catastrophic Chronicle of Ganjifa Cards</b> Roy S, <b>Ganguly A</b> <b>Thespian Magazine</b> 4(1):59-74, 2016.	ISSN: 2321-4805
33.	<b>A study on anthropometric measurement, socio-economic conditions &amp; occupational health problems of Baluchari shari weavers of Bishnupur</b> Ganguly M, <b>Ganguly A</b> <b>International Journal of Current Research</b> 7(7):17722-17729, 2015.	ISSN: 0975-833X

#### List of Books / Book Chapters Published:

Sl. No.	Title, Authors, Journal, Book, Publishing year	ISSN / ISBN Number
1.	<b>Sustainable valorization of food waste through bacterial biofilm: A pathway towards environmental safety and economic viability</b>  <b>Arindam Ganguly</b> , Ritwick Konar, Ponmurugan Karuppiah, Uma Eswaranpillai, Mousumi Ganguly, Manasi Chattaraj , Debasis Mitra, and Sourav Chattaraj In book: Biofilm Applications to Revolutionize Food Technology; <i>Springer nature</i> (Accepted). <a href="https://doi.org/10.1007/978-3-031-85205-3_13">https://doi.org/10.1007/978-3-031-85205-3_13</a>	ISBN: 978-303-18-5204-6   Springer

2.	<p><b>Integrated Molecular Strategies for Enhanced Production of Medicinal Plant-Derived Flavonoids</b>  Dwaipayan Sinha, Zoofishan Kazi, Rashmi Muherjee, <b>Arindam Ganguly</b>, Swastika Banerjee, Arun Kumar Maurya, Abhra Abir Chowdhury, Aqsa Majgaonkar, Shreyasi Dutta  Integrated Molecular Strategies for Enhanced Production of Medicinal Plant-Derived Flavonoids; <i>Springer nature</i>  In book: Biotechnology, Multiple Omics, and Precision Breeding in Medicinal Plants  <a href="https://10.1201/9781003475491-23">https://10.1201/9781003475491-23</a></p>	<p>ISBN: 978-1-032-75467-3</p>  <p>Taylor &amp; Francis</p>
3.	<p><b>Valorization of Wastewater by the Application of Probiotic, Nitrifying, and Denitrifying Bacterial Consortium</b>  Sourav Chattaraj, Soumitra Das, <b>Arindam Ganguly</b>, Hrudayanath Thatoi &amp; Pradeep K. Das Mohapatra  Application of Microbial Technology in Wastewater Treatment and Bioenergy Recovery; <i>Springer nature</i>  133–156, 2024.  <a href="https://doi.org/10.1007/978-981-97-3458-0_6">https://doi.org/10.1007/978-981-97-3458-0_6</a></p>	<p>ISBN: 978-981-97-3458-0</p>  <p>Springer</p>
4.	<p><b>Valorization of Feather Waste by Microbial Enzymatic Activity: Bioconversion, Production and Application</b>  Susmita Nad, Ujjal Konar, Sourav Chattaraj, <b>Arindam Ganguly*</b>  Agro-waste to Microbe Assisted Value Added Product: Challenges and Future Prospects; <i>Springer nature</i>  337–363, 2024.  <a href="https://doi.org/10.1007/978-3-031-58025-3_15">https://doi.org/10.1007/978-3-031-58025-3_15</a></p>	<p>ISBN: 978-3-031-58025-3</p>  <p>Springer</p>
5.	<p><b>Computational approach to assess Mucormycosis: A systematic review</b>  Mitra D, Nachhmin B, <b>Ganguly A</b>, Das Mohapatra PK  Computational Intelligence in Healthcare Applications, Academic Press, (<i>ELSEVIER</i>)  71-85, 22.07.2022.  DOI: <a href="https://doi.org/10.1016/B978-0-323-99031-8.00004-1">https://doi.org/10.1016/B978-0-323-99031-8.00004-1</a></p>	<p>ISBN: 978-03-23990-31-8</p>  <p>ELSEVIER</p>
6.	<p><b>Employing Technological Innovation for Eco-Friendly Waste Disposal at a Global Scale</b>  <b>Arindam Ganguly</b>, Ritwick Konar, Deep Kumar Kirtania, Mousumi Ganguly, Manasi Chattaraj, Debasis Mitra, Sourav Chattaraj  AI Technologies for Enhancing Recycling Processes; Hershey, PA: IGI Global.  135-152, 2025.  <a href="https://doi.org/10.4018/979-8-3693-7282-1.ch008">https://doi.org/10.4018/979-8-3693-7282-1.ch008</a></p>	<p>ISBN: 979-83-69372-82-1</p>  <p>IGI Global  Publishing Tomorrow's Research Today  www.igi-global.com</p>
7.	<p><b>Considerations of Policy and Morality in Waste Management</b>  Chattaraj, M., Goswami, A., <b>Ganguly, A.</b>, &amp; Chattaraj, S.  AI Technologies for Enhancing Recycling Processes; Hershey, PA: IGI Global.  233-266, 2025.  <a href="https://doi.org/10.4018/979-8-3693-7282-1.ch012">https://doi.org/10.4018/979-8-3693-7282-1.ch012</a></p>	<p>ISBN: 979-83-69372-82-1</p>  <p>IGI Global  Publishing Tomorrow's Research Today  www.igi-global.com</p>
8.	<p><b>Aquaculture Microbiology</b>  <b>Ganguly A*</b>, Chattaraj S, Ghosh T  Microbiology and Immunology, Kripa Drishti Publications  1-10, 2022</p>	<p>ISBN: 978-93-90847-97-6</p>
9.	<p><b>Herbal Drug: A Natural Bioactive Formulation &amp; its scope against Viral diseases</b>  Nad S, Mandal A, Das Mohapatra PK , <b>Ganguly A*</b>  Hand Book of Agriculture &amp; Plant Sciences; ABS Books  187-230, 2021.</p>	<p>ISBN: 978-93-91002-25-1</p>
10.	<p><b>School Sanitation and Hygiene: A Glimpse of Contemporary India</b>  <b>Ganguly A*</b>, Dutta TK, Ganguly M, Roy S  <b>Health, Nutrition and Hygiene: The Dynamics of Social Ecology in India</b>  5:197-207, 2016.</p>	<p>ISBN: 978-81-930138-1-6</p>

<b>11.</b>	<b>The Role of Probiotics in Aquaculture</b> <b>Ganguly A*</b> , Ganguly M <i>A Diamond Collection of Research Articles, Prantar Publication</i> 4:289-302. 2016.	ISBN: 978-81-928200-9-5
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**National / International seminars / conferences / workshop attended/ Paper presented:**

Sl. No.	Name of Seminar / Workshop / Symposium & Sponsoring Agency	Venue	Duration	State/ National/ International	Nature of Participation
1.	<b>Research &amp; Innovation in Industrial &amp; Marine Biotechnology: A circular economy</b>	Siksha O Anusandhan University	4 <sup>th</sup> -5 <sup>th</sup> Nov, 2024	National	Paper Presentation
2.	<b>Microbial Diversity and Applications</b>	Raja NL Khan College	17 <sup>th</sup> -18 <sup>th</sup> Aug, 2023	National	Poster Presentation
3.	<b>Pollution and Biosafety: Issues and Concerns</b>	Raja Rammohan Roy Mahavidyalaya	3 <sup>rd</sup> Aug, 2022	International	Poster Presentation
4.	<b>International Research Conference on Recent Trends in Life Science</b> International Academy of Science and Research.	Sidho Kanho Birsha University	28 <sup>th</sup> to 29 <sup>th</sup> Nov, 2019	International	Poster Presentation
5.	<b>International Symposium on Microbial Technologies in Sustainable Development of Energy, Environment, Agriculture and Health</b> by AMI.	Central University of Haryana	15 <sup>th</sup> to 18 <sup>th</sup> Nov, 2019	International	Poster Presentation
6.	<b>“International Conference on Emerging Trends in Biotechnology”</b> (ICETB); DBT, DST, MoES, NABARD, ICMR, CSIR, BARC, INSA, SBI.	Jawaharlal Nehru University	6 <sup>th</sup> to 9 <sup>th</sup> Nov, 2014	International	Poster Presentation
7.	<b>“Celebrating International Year of Periodic Table”</b> (IYPT); RSC, Indian chemical society.	Bankura Sammilani College	18 <sup>th</sup> to 19 <sup>th</sup> Mar, 2019.	National	Poster Presentation
8.	<b>“Biodiversity Conservation and Bio-Resource Management: Benefitting Man and Nature”</b> ; West Bengal Biodiversity Board.	Bankura Sammilani College	11 <sup>th</sup> Dec, 2018	National	Poster Presentation
9.	<b>“Perspective of Human health, Microbial Biotechnology and Innovation”</b> ; UGC.	Vidyasagar University	27 <sup>th</sup> to 29 <sup>th</sup> Mar, 2018	National	Paper Presentation
10.	<b>“National Seminar on Microbial Biotechnology”</b> (NSMB); sponsored by UGC.	Vidyasagar University	10 <sup>th</sup> to 11 <sup>th</sup> Mar, 2017	National	Paper Presentation
11.	<b>National Level Seminar</b> ; UGC.	Sonamukhi College	5 <sup>th</sup> to 6 <sup>th</sup> Jan, 2017.	National	Paper Presentation
12.	<b>National Level Seminar</b> ; UGC.	Vidyasagar University	29 <sup>th</sup> to 1 <sup>st</sup> Mar, 2016	National	Poster Presentation
13.	<b>National Level Seminar</b> ; DST, UGC.	Vidyasagar University	23 <sup>rd</sup> to 24 <sup>th</sup> Mar, 2015.	National	Poster Presentation



14.	<b>“Science in the 21<sup>st</sup> century for a sustainable future”</b>	SKBU	12 <sup>th</sup> -13 <sup>th</sup> Feb, 2020	State	Paper Presentation
15.	<b>“Importance of Eye donation, eye hygiene &amp; allied public health issues”</b> Sponsored by B.S. College, Family & Welfare Department of Govt. Of W.B.	Bankura Sammilani College	16 <sup>th</sup> Nov, 2017.	State	Paper Presentation
16.	<b>Rural Health Ecology: Issues of Public Health, Nutrition and Fluorosis</b> B.S. College, Family & Welfare Department of Govt. Of W.B.	Bankura Sammilani College	11 <sup>th</sup> Jan, 2017.	State	Paper Presentation
17.	<b>“Relevance of Swami Vivekananda in the present perspectives”</b> ; UGC.	Ramananda College	13 <sup>th</sup> Sep, 2018	International	Attended
18.	<b>“Problems and prospects of coastal aquaculture and application of biotechnological tools for rural development”</b> ; CSIR, DST, DBT and UGC.	Vidyasagar University	1 <sup>st</sup> to 3 <sup>rd</sup> Mar, 2013.	International	Attended.
19.	<b>“Climate Change, Bioresource &amp; Green Biotechnology”</b> ; Ministry of Earth Science, DST, DBT, UGC.	Vidyasagar University	12 <sup>th</sup> to 13 <sup>th</sup> Mar, 2014.	National	Attended.
20.	<b>“Colonialism, Post colonialism and Beyond”</b> ; UGC.	Ramananda College	27 <sup>th</sup> to 28 <sup>th</sup> Sep, 2013.	National	Attended.
21.	<b>“Non animal science Teaching and Research”</b> ; UGC.	Vidyasagar University	31 <sup>st</sup> Mar, 2011	National	Attended.
22.	<b>“Exploitation of Biofertilizers and Biopesticides for sustainable Development of Modern Agriculture”</b> ; UGC.	Bankura Christian College	18 to 19 <sup>th</sup> Feb, 2011.	National	Attended.
23.	<b>Our Ice, Our Future</b>	Bankura Sammilani College	6 <sup>th</sup> June, 2024.	State	Attended.
24.	<b>Intellectual Property Rights</b>	Bankura Sammilani College	7 <sup>th</sup> Sep, 2019.	State	Attended.
25.	<b>Mushroom Cultivation &amp; Production</b>	Bankura Christian College	20 <sup>th</sup> Dec, 2014	State	Attended.
26.	<b>National Integration in the perspective of Swami Vivekananda</b> UGC.	Panchmura Mahavidyala	22 <sup>nd</sup> to 23 <sup>rd</sup> Sep, 2011.	State	Attended.
27.	<b>Peoples Biodiversity Register</b> ; West Bengal Biodiversity Board.	Raghunathpur College	2 <sup>nd</sup> Feb, 2016.	State	Attended.

28.	<b>Recent trends in Chemical Sciences</b>	Bankura Sammilani College	16 <sup>th</sup> July, 2015	State	Attended.
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### National / International Webinars/ workshop attended

Sl. No	Name of Webinar / Workshop	Venue	Duration	State/ National/ International	Nature of Participation
1.	<b>Recent trends in biological sciences</b>	Ramananda College	10 <sup>th</sup> -11 <sup>th</sup> Nov, 2021	International	Attended
2.	<b>The World of Plants Its impact on indigenous people, society and biosphere</b>	Government General Degree College	18 <sup>th</sup> -19 <sup>th</sup> Nov, 2020	International	Attended
3.	<b>Yoga: The holistic approach to physiological and psychological homoeostasis</b>	Government General Degree College, Mohanpur	17 <sup>th</sup> -18 <sup>th</sup> Oct, 2020	International	Attended
4.	<b>Sustainable environmental factors as immune boosters</b>	Rural Institute of higher studies	28 <sup>th</sup> Sep, 2020	International	Attended
5.	<b>Sustainable Biodiversity for Sustainable Livelihood</b>	Raghunathpur College	15 <sup>th</sup> -16 <sup>th</sup> Sep, 2020	International	Attended
6.	<b>Recent Advancement in Biological Research</b>	Midnapore City College	2 <sup>nd</sup> Sep, 2020	International	Attended
7.	<b>Science, biology and the world's future</b>	Dinabandhu Andrews College	25 <sup>th</sup> Aug, 2020	International	Attended
8.	<b>Microbial Biotechnology: Present and Future</b>	Vidyasagar University	13 <sup>th</sup> Aug, 2022	International	Attended
9.	<b>Revisiting human rights, ethics and environment during COVID19</b>	Ramanujan College	6 <sup>th</sup> -7 <sup>th</sup> Aug, 2020	International	Attended
10.	<b>Ideals of Swami Vivekananda and role of students for achieving successful life towards development of new India</b>	Bankura Sammilani College	1 <sup>st</sup> Aug, 2020	International	Attended
11.	<b>Research Frontiers and Prospects in Biosciences and Biotechnology</b>	Fakir Mohan University	28 <sup>th</sup> -29 <sup>th</sup> July, 2020	International	Attended
12.	<b>Swami Vivekananda's evaluation of India</b>	Bankura Sammilani College	1 <sup>st</sup> July, 2020	International	Attended
13.	<b>Contemporary issues and challenges of COVID-19</b>	Ramananda College	28 <sup>th</sup> June, 2020	International	Attended
14.	<b>Post-COVID World Order: Challenges &amp; Way outs: Democracy, Culture, Society, Security &amp; International Relations</b>	Bankura Christian College	25 -26 <sup>th</sup> June, 2020	International	Attended
15.	<b>Contemplation of Sports and Physical Education in New Normal Situation</b>	Bankura University	17 <sup>th</sup> Dec, 2020	National	Attended

16.	<b>Human-virus interaction: Present and future perspective</b>	Sonamukhi College	26 <sup>th</sup> Aug, 2021	National	Attended
17.	<b>Hundred Years of Biocultural Studies in Anthropology in Bengal</b>	Vidyasagar University	23 <sup>rd</sup> July, 2022	National	Attended
18.	<b>Integration of ecosystem and biodiversity values into national and local development planning</b>	SKBU	22 <sup>nd</sup> May, 2021	National	Attended
19.	<b>Opportunity of Microbiologist in the new normal era</b>	Vidyasagar University	26 <sup>th</sup> -27 <sup>th</sup> Sep, 2020	National	Attended
20.	<b>Corona pandemic and application of Indian philosophical thought</b>	Bankura Sammilani College	21 <sup>st</sup> Sep, 2020	National	Attended
21.	<b>Recent Trends in Applied Mathematics</b>	Ramananda College	16 <sup>th</sup> Sep, 2020	National	Attended
22.	<b>Student life during the pandemic: Challenges and responsibilities</b>	Chatra Ramai Pandit Mahavidyalaya	8 <sup>th</sup> Sep, 2020	National	Attended
23.	<b>Dengue and its prevention</b>	Bankura Sammilani College	4 <sup>th</sup> Aug, 2020	National	Attended
24.	<b>Recycling waste: Management in theory and practice</b>	Kashipur Michael Madhusudhan Mahavidyalaya	1 <sup>st</sup> Aug, 2020	National	Attended
25.	<b>COVID 19: Immunoinformatics for disease diagnosis and next-generation vaccine designing</b>	Bankura Sammilani College	29 <sup>th</sup> July, 2020	National	Attended
26.	<b>Physical and psychological well being through household work and daily life activity</b>	Siddhinath Mahavidyalaya	13 <sup>h</sup> -15 <sup>th</sup> July, 2020	National	Attended
27.	<b>Naming of Cyclone</b>	Bankura Sammilani College	23 <sup>rd</sup> May, 2024	State	Attended
28.	<b>Post COVID world: Power shift in world politics and quest for India's new identity</b>	Ramananda College	27 <sup>th</sup> June, 2020	National	Attended
29.	<b>Dreamscape of the white continent</b>	Bankura Sammilani College	24 <sup>th</sup> July, 2021	State	Attended
30.	<b>Gender Equity</b>	Bankura Sammilani College	21 <sup>st</sup> Nov, 2020	State	Attended

**State/ National / International seminars / Webinars Organized:**

Sl No	Name of Seminar / Symposium & Sponsoring Agency	Venue	Duration	State/ National/ International	Nature of Participation
1.	Microbes and Social Equity	B.S. College	December 22-23, 2023	International Seminar	Convener
2.	Dengue and other vector borne diseases: Causes & Consequences	Bankura Sammilani College	11 <sup>th</sup> October, 2023.	State	Convener

3.	<b>Emerging Trends in Applied Microbiology</b>	Bankura Sammilani College	10 <sup>th</sup> to 11 <sup>th</sup> April, 2023.	State	Convener
4.	<b>Advancement in Microbiology in the context of Louis Pasteur</b>	Bankura Sammilani College	27 <sup>th</sup> Dec, 2022	State	Convener
5.	<b>Emerging Trends in Microbiology</b>	Bankura Sammilani College	9 <sup>th</sup> to 10 <sup>th</sup> Feb, 2016.	State	Organizing secretary
6.	<b>Nutrition health and stress management in the context of COVID-19 pandemic</b>	Google meet	7 <sup>th</sup> Sep, 2020	International Webinar	Organizing secretary
7.	<b>Trajectory of COVID-19 Pandemic: Awareness, Treatment and Genomic Insight for Future Development</b>	Google meet & YouTube live	14 <sup>th</sup> to 15 <sup>th</sup> June, 2020	International Webinar	Convener

### Hands-on-training Program Organized:

Name of Workshop	Venue	Duration	Participant
Vermi-composting	Bankura Sammilani College	6 months	30

### Project guided:

- Valorization of Chicken Feather Through Utilization of Keratinolytic Bacteria
- A study on production and standardization of vermicompost from green waste
- Isolation and Characterization of Keratinase Producing microorganisms from Poultry Farm Waste: A sustainable approach of Bioremediation
- A study on Ethnomedicinal plants in Joypur forest Bankura, WB, India
- Physico-Chemical & Microbiological Assessment Of Holy Spring Water Of Susunia, WB India
- Study on small indigenous fish diversity of Bankura district, W.B., India with special emphasis on *Clarias batrachus* (Linn.)
- Dose determination of a putative probiotic bacteria *Bacillus cereus* PKA18 for the growth and disease resistance of *Clarias batrachus* (Linn.)
- A study on the isolation and quantification of potential wood degrading microorganisms
- Diversity and Distribution of Wild Mushrooms in Different Forest Areas of Bankura District, W.B., India
- Inhibition of Aquaculture Pathogen *Vibrio* spp. by Signal Peptides of Probiotic Bacteria *Lysinibacillus sphaericus*: A Bioinformatics Insight
- A Review on the Uses of ethno-medicinal plants in a village of Bankura district, WB
- A study on antimicrobial activity of medicinal herbs
- Isolation and characterization of probiotic bacteria from Ārsē Piṭhā: A popular traditional fermented rice-cake of Bankura
- A Study on Isolation and Characterization of Potential Fish Pathogens from Tilapia (*Oreochromis mossambicus*)

### Sequences submitted to GenBank (NCBI):

1. **Ganguly, A.,** Mandal, A, and Das Mohapatra, P.K. **(2016) *Lysinibacillus sphaericus* PKA17** 16s rRNA gene, partial sequence of 747 bp, Acc. No. KX580190.1. <http://www.ncbi.nlm.nih.gov>
2. **Ganguly, A.,** Mandal, A, and Das Mohapatra, P.K. **(2016) *Bacillus cereus* PKA18** 16s rRNA gene, partial sequence of 677 bp, Acc. No. KX826079.1. <http://www.ncbi.nlm.nih.gov>
3. **Ganguly, A.,** Mandal, A, and Das Mohapatra, P.K. **(2017) *Bacillus thuringiensis* PKA19** 16s rRNA gene, partial sequence of 1460 bp, Acc. No. MF139049.1. <http://www.ncbi.nlm.nih.gov>
4. **Ganguly, A.,** Konar, R., Das, A., Dhang, S., Shit, A., Brahmachari, S., Chattaraj, S. and Das Mohapatra, P.K. **(2023) *Bacillus licheniformis* strain PKA76** 16s rRNA gene, partial sequence of 1075 bp, Acc. No. OQ978223.1. <http://www.ncbi.nlm.nih.gov>
5. **Ganguly, A.,** Konar, R., Das, A., Dhang, S., Shit, A., Brahmachari, S., Chattaraj, S. and Das Mohapatra, P.K. **(2023) *Bacillus paramycoides* strain PKA78** 16s rRNA gene, partial sequence of 1279 bp, Acc. No. OQ978224.1. <http://www.ncbi.nlm.nih.gov>
6. **Ganguly, A.,** Chattaraj, S., Samanta, S., Mukherjee, P., Sk, M., Roy, T., Sannyasi, S., Dutta, N., Das Mohapatra, P.K. and Mukherjee, S.K. **(2023) *Staphylococcus gallinarum* strain BTA5** 16s rRNA gene, partial sequence of 1331 bp, Acc. No. OQ978222.1. <http://www.ncbi.nlm.nih.gov>

### Extension Work/Community Service:

- Organized awareness program on 'Prevention of Malaria, Chikungunya and other vector-borne diseases'.
- Participated in the program of 'Drive against illiteracy' & 'Eradication of Polio'.
- Social Awareness Program on "Dengue and other vector borne diseases: Causes & Consequences"

### Innovations/Contributions in Teaching:

- Audio visual teaching aids like Computer & LCD projector are used for Power Point presentation in Hons. Classes.
- Assisted students in job orientation program through Career Counselling Cell
- Regular Class tests and practical examination for students.
- Regular on line Classes and examinations through college portal.
- Tutorial classes to discuss on questions.
- Remedial Teaching for slow-learners.
- Teaching in the scheme of 'Entry into the service' sponsored by U.G.C.
- Participating in field study tour or Excursion of Microbiology Hons. students since 2009.
- Guiding Microbiology Hons. students in College Exhibition since 2009.
- Organized several international webinars.
- Organized training program.
- Member of Innovation & skill enhancement cell, Eco-club.
- Member of IQAC.
- Acted as Paper setter/Examiner/Scrutinizer/Internal Examiner/External Examiners of **Vidyasagar University, University of Burdwan, Sidho-Kanho-Birsha University, Kazi Nazrul University and Bankura University.**