

FACULTY MEMBERS' ACADEMIC PROFILE

1. **Name of the Faculty member:** Dr. SUTAPA SANYAL
2. **Designation:** Assistant Professor in Zoology (W.B.E.S.)
3. **Qualification:** M.Sc. (CU), B.Ed. (CU), Ph.D. (CU)
4. **Specialization:** Fishery and Aquaculture
5. **E-mail address:** sutapa2007.sanyal@gmail.com
6. **Date of Joining in W.B.E.S.:** 25.04.2007
7. **Date of Joining in this College:** 16.06.2015
8. **Total Teaching experience in College level:** 16+ years (UG + PG)
9. **Research interests:** Fishery and Aquaculture
10. **Title of thesis (Ph.D.) with year:** “Qualitative and Quantitative assessment of bacterial population of exposed fish species and their environment in different ponds utilized for natural purification of wastewater” (awarded in 2013)
11. **Research guidance:** Nil
12. **Research Projects (Completed and ongoing):** 02



Year	Name of PI	Title of Project	Amount (in Rs.)	Duration	Funding Agency with date
2009-2011	Dr. Sutapa Sanyal	Health hazards assessment from antibiotic resistance bacteria associated with waste fed freshwater fishery	1, 15,000/-	2 years (Oct. 2009 to Apr. 2011)	UGC Minor Research project (F.PSW-054/09-10(ERO))
2018-2021	Dr. Sutapa Sanyal	Bacteriocins: Novel and Highly Potent Biopreservative in Fishing Industry	10,79,900/-	3 years	DST, Govt. of W.B., Sanction No: 281(Sanc)/ST/P/S &T/1G-52/2017

List of publications:**A) Published papers in Journals:**

1. “Occurrence and antibiotic susceptibility among coliform bacteria isolated from sewage exposed fish, **S. Sanyal**, A. Basu and S. Banerjee, *Recent Research in Science and Technology*, **2010**, 2(3), 42–47 [ISSN 2076-5061].
2. “Drug Resistance Profiles of Coliforms from Sewage Exposed Fish”, **S. Sanyal**, A. Basu and S. Banerjee, *World Journal of Fish and Marine Sciences*, **2011**, 3(4), 275-282 [ISSN 2078-4589].
3. “Transferable drug resistant coliforms in fish exposed to sewage”, **S. Sanyal** and S. Banerjee, *Archives of Polish Fisheries*, **2013**, 21, 29-39 [ISSN 2083-6139; IF: 0.632].

4. "Acclimatization to Heat Stress in Nistari Race of *Bombyx mori*", S. Sinha and S. Sanyal, *Journal of Entomology and Zoology Studies*, **2013**, 1(6), 61-65 [ISSN 2349-6800; IF: 0.37].
5. "Prey selectivity and efficient biocontrol of dengue by guppies: Effects of alternative prey and habitat complexity", S. Sanyal and S. Ghosh, *International Journal of Pure and Applied Zoology*, **2014**, 2(4), 339-347 [ISSN 2320-9577; IF: 0.765].
6. "Prey Selection in Relation to the Mosquito Control Efficacy of Guppy", S. Sanyal, *Manan*, July **2016**, 2(2), 132-138 [ISSN 2348-3849].
7. "Formalin in fish trading: an inefficient practice for sustaining fish quality", S. Sanyal, K. Sinha, S. Saha and S. Banerjee, *Archives of Polish Fisheries*, March **2017**, 25, 43-50 [ISSN 2083-6139; IF: 0.632].

7. Chapter in Books:

"Occurrence and antibiotic susceptibility of bacteriological indices isolated from fish cultured in waste fed wet land", S. Sanyal, A. Basu and S. Banerjee, Eds. A. Sinha, S. Datta and B. K. Mahapatra, In '*Diversification of aquaculture*', Narendra Publishing House, **2011**, Chapter 19, 201-209 [ISBN 978-93-8042-853-6].

8. Book:

"Questions and Answers in Zoology. Part I", R. Kr. Datta and S. Sanyal, Archana Publishing Centre, Kolkata, April **2016**.

14. Membership of Learned Societies/ Editorial Boards, etc.:

Life member of Zoological Society Kolkata

15. Patents: Nil

16. Awards:

1. **S. P. Roychowdhury Award** for "**Best Poster Presentation**" for poster entitled "A study on Monsoon Microbial Load of River Ganga in two different sites of West Bengal" in **National Seminar** on '*Faunal Diversity: Status, Utilization and Impact on Human Health*' organized by University of Calcutta and Zoological Society Kolkata in **2008**.
2. **R. K. Sur Award** for **Best Presentation** of "**unpublished original research work in the line of animal science**" for **Paper** entitled "*Pathogenic bacteria and transferable drug resistant coliforms of public health significance in sewage exposed fish*" in **R.K. Sur Memorial Lecture** on '*Animal Science*' organized by the Zoological Society Kolkata in **2013**.
3. **Best Poster Award** for presenting poster entitled "*Multidrug-tolerant bacteria and transfer of their resistance factors in microbial milieu of sewage system*" at UGC-SAP sponsored **National Conference** on '*Effect of Climate Change on Faunal Diversity*' organized by Department of Zoology, University of Kalyani, on **27th February, 2017**.
4. **Best Oral Award** for presenting paper entitled "Anti-Listeria Activity of Fish Lactic Acid Bacteria" at National Conference on Science and Technology: Rural Development, organized by Surendranath College, 20th and 21st January, 2020.

17. Other notable activities:**Departmental excursions**

1. Supervised Departmental Excursion of **42 students** of **UG 2nd Year (Hons)** and **PG Semester-1** to **Sunderbans**, South 24 Parganas, West Bengal from **14-16th December, 2015** (3 days).
2. Supervised Departmental Excursion of **22 students** of **UG 2nd Year (Hons)** to **Vizag and Araku, Andhra Pradesh** from **04-08th December, 2016** (5 days).
3. Supervised Departmental Excursion of **32 students** of **UG 2nd Year (Hons)** and **PG Semester-2** to **Chandipur, Orissa** from **26th February - 01st March, 2018** (4 days).
4. Supervised Departmental Excursion of **42 students** of **UG 2nd Year (Hons)** and **PG Semester-1** to **Gopalpur and Daringbadi, Odisha** from **04-08th March, 2019**.
5. Supervised Departmental Excursion of **06 students** of **PG Semester-3** (Fishery Special Paper) to **Kanchrapara Fish Co-operative Society, Nadia**, on **30st August, 2016**.
6. Supervised Departmental Excursion of **04 students** of **PG Semester-3** (Fishery Special Paper) to **Kanchrapara Fish Co-operative Society, Nadia**, on **16th December, 2017**.
7. Supervised Departmental Excursion of **13 students** of **PG Semester-3** (Fishery Special Paper) and **PG Semester 1** to **CIFA, Khardaha**, on **13th November, 2019**.
8. Supervised Departmental Excursion of **08 students** of **PG Semester-3** (Fishery Special Paper) to **Naihati Hatchery**, on **16th December, 2019**.

Convener of Seminar/Symposium

Organized “Satya Sundar Barman Memorial Lecture 2016” funded by Higher Education Directorate, Government of West Bengal, on 10/12/2016

Acted as **Joint Convener** of **One-day Regional Level Seminar-2017** on ‘*Degenerative Diseases of Brain and Folk Music as a Healer*’, organized by Krishnagar Govt. College on **16th September, 2017**.

18. A) Participation in Seminars/Symposia/Conferences/Workshops:**Seminars:**

1. **Presented a Poster** entitled “*A study on Monsoon Microbial Load of River Ganga in two different sites of West Bengal*” in **National Seminar** on ‘*Faunal Diversity: Status, Utilization and Impact on Human Health*’ organized by Department of Zoology, University of Calcutta on **16th February, 2008**.
2. **Presented a Paper** entitled “*Depuration of bacteria from fish*” for the selection of **Shudev Bhusan Ghosh Young Scientist Award (2009-10)** organized by the Zoological Society, Kolkata on **11th December, 2010**.
3. **Presented a Paper** entitled “*Bacteriological contamination and ability of self purification of fish reared in waste fed wet land*” in **18th West Bengal Science and Technology Congress** (State level) organized by Ramakrishna Mission Residential College, Narendrapur and West Bengal Science and Technology Department, Government of West Bengal on **28th February to 1st March, 2011**.
4. **Presented a Paper** entitled “*Pathogenic bacteria and transferable drug resistant coliforms of public health significance in sewage exposed fish*” in the **Regional level R.K. Sur Memorial**

- Lecture** on ‘*Animal Science*’ organized by the Zoological Society, Kolkata on **12th February, 2013**.
5. **Presented a Poster** entitled “*Predatory Preference of Poecilia reticulata to Aedes Larvae: An Efficient Biocontrol to Dengue*” in **National Seminar** on ‘*Frontiers in Modern Biology*’ organized by IISER, Mohanpur, on **10th December, 2013**.
 6. **Presented a Paper** entitled “*Quality characteristics of formalin contaminated fish*” in **International Conference** on ‘*Aquatic Resources and Sustainable Management*’ organized by Central Calcutta Science & Culture Organization for Youth, in collaboration with the University of Calcutta on **17th to 19th February, 2016**.
 7. **Presented a Poster** entitled “*Transferable antibiotic resistant bacteria: A limit to waste fed aquaculture*” in RUSA Funded **International Level Seminar** on ‘*Recent Trends in Microbiology*’ organized by Ramakrishna Mission Vidyamandira, Belur Math on **14th January, 2017**.
 8. **Presented a Poster** entitled “*Multidrug-tolerant bacteria and transfer of their resistance factors in microbial milieu of sewage system*” in UGC-SAP sponsored **National Conference** on ‘*Effect of Climate Change on Faunal Diversity*’ organized by Department of Zoology, University of Kalyani, on **27th February, 2017**.
 9. **Presented a Paper** entitled “*Gene transfer in microbial milieu of sewage system*” in **29th All India Congress of Zoology and International Symposium on Culture Based Fisheries in Inland Open Waters and International Satellite Symposium on Fish Immunology** organized by ICAR-Central Inland Fisheries Research Institute, Barrackpore on **9th-11th June, 2017**.
 10. **Presented a Paper** entitled “*Use of formalin for artificial quality retention of fish*” in **2nd Regional Science and Technology Congress (Southern Region)**, organized by University of Kalyani on **14th - 15th December, 2017**.
 11. **Presented a Paper** entitled “*Fisheries cooperatives in conservation of fish and socioeconomic improvement of fishers: Case studies from two societies of West Bengal*” in **3rd Regional Science and Technology Congress**, organized by Bidhannagar College and Department of Science and Technology and Biotechnology, Government of West Bengal **18th and 19th December, 2018**
 12. **Presented a Paper** entitled “*Bacteriocins: A Boon to Biopreservation of Food*” in **World Thinkers and Writers Peace Meet**, organized by Ramkrishna Vivekananda Centenary College **29th December, 2019**
 13. **Presented a Paper** entitled “*Anti-Listeria Activity of Fish Lactic Acid Bacteria*” **National Conference on Science and Technology: Rural Development**, organized by Surendranath College, **20th and 21st January, 2020**
 14. **Presented a Poster** entitled “*Application of LAB and their Metabolites: An Alternative to Food Safety*” in **Diversity in The Era of Globalization; Challenges And Management**, organized by Bidhannagar College **22nd and 23rd February, 2020**

Workshops:

1. Participated in **ICAR Sponsored Short Course** on ‘*Molecular approaches in diagnosis and control of emerging and transboundary diseases of freshwater fish and shellfish*’ organised by

ICAR-Central Institute of Freshwater Aquaculture Kausalyaganga, Bhubaneswar, Odisha from **17th to 26th November 2015.**

2. Participated in the **two-day National Seminar and Workshop** on '*Scientific Devices, Technology Applications and Community Linkage*' organized by Immunobiology and Regenerative Medicine Research Unit, Department of Zoology, University of Calcutta, in collaboration with Centre of Excellence, University of Calcutta, funded by TEQIP Phase II-CoE and held at the Centre for Research in Nanoscience and Nanotechnology (CRNN) on the **18th & 19th of March 2017.**

Invited Lectures:

1. Delivered an interactive invited lecture at **Science Teachers' Training Workshop** organized by Jagadis Bose National Science Talent Search, funded by NCSTC-Department of Science and Technology, New Delhi, Govt. of India on **18th May, 2017.**
2. Delivered an interactive invited lecture at a Workshop entitled '**Science Teachers' Training Program**' organized by Jagadis Bose National Science Talent Search, funded by NCSTC-Department of Science & Technology, New Delhi, Govt. of India on **20th July, 2017.**
3. Delivered an interactive invited lecture at a Workshop entitled '**Science Teachers' Training Program**' organized by Jagadis Bose National Science Talent Search, funded by NCSTC-Department of Science & Technology, New Delhi, Govt. of India on **18th December , 2017.**
4. Delivered an interactive invited lecture at a Workshop entitled '**Science Teachers' Training Program**' organized by Jagadis Bose National Science Talent Search, funded by NCSTC-Department of Science & Technology, New Delhi, Govt. of India on **17th January , 2018.**
5. Delivered an interactive invited lecture (popular talk) at educational activities involving school students for observance of Earth Day on the theme "**Protect our Species**" at BITM on **April 22, 2019.**

B) Participation in OP/RC:

1. Participated in UGC sponsored **Orientation Programme** organized by UGC-ASC, University of Calcutta from **5th to 30th July, 2010.**
2. Participated in UGC sponsored **Refresher Course** organized by UGC-ASC, University of Calcutta from **12th June to 2nd July, 2014.**
3. Participated in UGC sponsored **Refresher Course** organized by HRDC Ranchi, University of Calcutta from **08 August to 28th August, 2018.**