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:** 13+ 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**
13.

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, Odisa 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**.