

## Dr. SUMANA DUTTA

**Contact:** sumanadutta.zoology@gmail.com

**Qualification:** M.Sc.; Ph.D.

**Designation:** Assistant Professor

**Teaching Experience (in years):** UG: 4+ years PG: 3+ years

**Research Experience (in years):** 9+ years

**Date of Joining Present Institution:** 23/11/2015

**Institutions/Companies Previously Served:** NA

**Examinations cleared:** NET-CSIR JRF (2011, All India Rank: 59), GATE (2015)

**Specialization/Research Interest:** Evaluation of hypoglycemic, antioxidant and antimicrobial potentials of phytochemicals.



### Awards & Recognitions

1. **Awarded 3<sup>rd</sup> position** in the paper (oral) presentation in 4<sup>th</sup> regional science & technology congress (Western region) 2019 on "Aqueous extract from *Manilkara hexandra* leaves reduced serum glucose level in *Labeo rohita* fingerlings", Organized by The University and Department of Science & technology and Biotechnology (DSTBT), Government of West Bengal, 9<sup>th</sup>-10<sup>th</sup> December, 2019.
2. **Best Oral presentation** in National Seminar on Advent of Biotechnology in Life Processes on Evaluation of hypoglycemic potentials of leaf and bark extracts of *Manilkara hexandra* (Roxb.) Dubard", organized by the Department of Biotechnology, University of Burdwan, 22-23rd March, 2018.
3. Got DST-INSPIRE Fellowship in the year 2011.
4. University Gold Medal from the University of Burdwan for 1<sup>st</sup> class 1<sup>st</sup> position in M.Sc examination in the year 2010.
1. 5. Won the Bhakti-Gouri Memorial Bronze Medal having secured highest percentage of marks in M.Sc. Examination, 2010 in zoology.

## Courses taught

	B.Sc Honours	B.Sc. Program	M.Sc. (Conservation Biology)
<b>Semester-I</b>	Core Course-I (Basic Concept of Taxonomy & Non Chordates I: Protista to Pseudocoelomates) Core Course-II (Principles of Ecology) ( 2016-2018)	Core Course I (Animal Diversity)	MCB-104 (Ecological Principles) [2016-2019]
<b>Semester-II</b>	Core Course- IV (Animal Physiology)		
<b>Semester-III</b>	Core Course- VI (Comparative Anatomy of Vertebrates) Core Course-VII (Fundamentals of Biochemistry) GE 3 ( Environment And Public Health)		
<b>Semester-IV</b>	Core Course-VIII(Cell Biology) Core Course-IX (Parasitology and Immunology) Core Course-X(Biochemistry of Metabolic Processes) GE 4 (Physiology)		
<b>Semester-V</b>	Core Course-XI (Molecular Biology) Core Course-XII (Developmental Biology)		
<b>Semester-VI</b>	Core Course-XIII (Principles of Genetics) Core Course-XIV(Evolutionary Biology) DSE-3(Parasitology)		

## Online Mode of Teaching

I have adopted various online methods for the teaching learning process. I have taken classes through various online platforms like Zoom, Webex Cisco and, Team link apps on a regular basis. I am sharing the power points for each topic in the online platforms that make them easy to understand. I have also created different Google class rooms for different semesters. Besides that, I have sent the study materials to students at their email ids and also uploaded the materials, power point presentations, assignments in the google class rooms.

## Publications

### Journals:

1. **Dutta, S.,** Ray, S., 2014. Evaluation of antioxidant potentials of leaf aqueous and methanolic extracts of *Calophyllum inophyllum* in relation to total phenol and flavonoid contents. International Journal of pharma and bio sciences. 5, 441-450.
2. Ray, S., Kundu, L. M., Goswami, S., Roy, G.C., Chatterjee, S., **Dutta, S.,** Chaudhuri, A., Chakrabarti, C. S., 2013. Metaphase arrest and delay in cell cycle kinetics of root apical meristems and mouse bone marrow cells treated with leaf aqueous extracts of *Clerodendrum viscosum* Vent. Cell proliferation, 46,109-117. (Impact Factor: 5.753) <https://doi.org/10.1111/cpr.12011>
3. Chaudhuri, A., Kundu, L.M., **Dutta, S.,** Chatterjee, S., Goswami, S., Roy, G.C., Ray, S., 2015. Allelopathic effects of aerial parts aqueous extract of *Ampelocissus latifolia* (Roxb.) Planch. in apical meristem cells. Asian Journal of Plant Science and Research, 5(3),11-16.
4. **Dutta, S.,** Ray, S., 2015. Evaluation of *in vitro* free radical scavenging activity of leaf extract fractions of *Manilkara hexandra* (Roxb) Dubard in relation to total phenolic contents. International Journal of Pharmacy and Pharmaceutical Sciences. 7(10), 296-301.
5. **Dutta, S.,** Ray, S., 2020. Comparative assessment of total phenolic content and *in vitro* antioxidant activities of bark and leaf methanolic extracts of *Manilkara hexandra* (Roxb.) Dubard. Journal of King Saud University - Science, 32, 643-647. (Impact Factor: 3.819) <https://doi.org/10.1016/j.jksus.2018.09.015>

## Guidance of M.Sc. Projects

1. Shilpa Nayek (2020, Netaji open Subhash University), Review work on Malaria Vector Control Strategies: Advantages & Limitations, (**Guide: Dr. Sumana Dutta**)
2. Manisha Khamaru (2020, Netaji open Subhash University), Review work on Glucoregulatory Hormones & Therapeutic Approaches In Diabetes, (**Guide: Dr. Sumana Dutta**)

## Paper Presentation in seminar/conference/symposium/workshop/discussion meeting

1. Oral Presentation on “Aqueous extract from *Manilkara hexandra* leaves reduced serum glucose level in *Labeo rohita* fingerlings (**Sumana Dutta**)” in the 27<sup>th</sup> West Bengal State Science & Technology Congress held on Feb 28-29, 2020 organized by Department of Science & technology and Biotechnology, Government of West Bengal

2. Oral Presentation on "*Aqueous extract from Manilkara hexandra leaves reduced serum glucose level in Labeo rohita fingerlings (Sumana Dutta)*" in the 4<sup>th</sup> regional science & technology congress (Western region) held on Dec 9-10, 2019 Organized by The University and Department of Science & technology and Biotechnology (DSTBT), Government of West Bengal
3. Oral Presentation on "*Evaluation of hypoglycemic potentials of Manilkara hexandra (Roxb.) Dubard (Sumana Dutta)*" in the 2<sup>nd</sup> International Conference on Frontiers in Biological, Environmental and Medical Sciences held on March 7-9, 2019 Organized by The University of Burdwan, W.B. India Under Purse Phase 2 Programme
4. Oral Presentation on "*Evaluation of Free radical scavenging and Hypoglycemic Potentials Of Manilkara hexandra (Roxb.) Dubard (Sumana Dutta)*" in the Golden Jubilee International Conference on Trends in Zoology held on Jan 3-4, 2019 Organized by The Department of Zoology, The University of Burdwan, Golapbag, 713104, West Bengal
5. Oral Presentation on "*Total phenolics and in vitro free radical scavenging potentials of leaf and bark methanolic extracts of Manilkara hexandra (Roxb.) Dubard (Sumana Dutta)*" in the International Conference on Frontiers in Biological, Environmental and Medical Sciences held on March 22-23, 2018 Organized by DST-PURSE (Phase 2) Govt of India (The University of Burdwan)
6. Oral Presentation on "*Evaluation of hypoglycemic potentials of leaf and bark extracts of Manilkara hexandra (Roxb.) Dubard (Sumana Dutta)*" in the National Seminar on Advent of Biotechnology in Life Processes held on March 08-10, 2018 Organized by Department of Biotechnology, The University of Burdwan, Golapbag, 713104, West Bengal
7. Poster Presentation on "*In vitro free radical scavenging potentials in relation to total phenolics of leaf and bark aqueous and methanolic extracts of Manilkara hexandra (Roxb.) Dubard (Sumana Dutta)*" in the National Conference on Advances of Life Sciences and Radiation Biology held on Feb 17-18, 2017 Organized by Department of Zoology, The University of Burdwan, Golapbag, 713104, West Bengal

#### **Participation in committees of Durgapur Government College since 2017**

1. Library Sub- committee (**Sumana Dutta**, Member-2017-2018)
2. Central Instrumentation Facility Committee (**Sumana Dutta**, Member-2017-2018)
3. Admission Sub-committee (**Sumana Dutta**, Member-2018-2019)
4. 1<sup>st</sup> Sem Examination Sub-committee (**Sumana Dutta**, Member-2018-2019)
5. Cultural committee (**Sumana Dutta**, Member-2018-2019)
6. Cultural committee for celebration of Golden Jubilee (**Sumana Dutta**, Member-2018-2019)
7. Invitation Subcommittee for closing ceremony of the Golden Jubilee Celebration (**Sumana Dutta**, Member-2019-2020)
8. Committee for Publication of Souvenir (**Sumana Dutta**, Member-2019-2020)
9. Annual Sports Meet committee (**Sumana Dutta**, Member-2019-2020)
10. College journal & Publication Sub-committee (**Sumana Dutta**, Member-2019-2020)
11. AISHE & NIRF data compilation Cell (**Sumana Dutta**, Member-2019-2020)
12. COVID-19 Grievance Redressal Cell(**Sumana Dutta**, Member-2020-2021)