

**FACULTY MEMBERS' ACADEMIC PROFILE**

1. **Name of the Faculty member:** Manali Dutta
2. **Designation:** Assistant Professor of Zoology
3. **Qualification:** Ph.D. in Zoology
4. **Specialization:** Parasitology and Microbiology
5. **E-mail address:** manalidutta93@gmail.com
6. **Date of Joining in W.B.E.S.:** 02.01.2025
7. **Date of Joining in this College:** 02.01.2025
8. **Total Teaching experience at the college level:** 2 months
9. **Research interests:** Medical Entomology, Mosquito biology, Nanoparticle fabrication and it's application, Chemical profiling of phyto extracts, Toxicology.
10. **Title of thesis (Ph.D.) with year:** “*Mosquitocidal Effects Of Seed Extracts Of Michelia Champaca On Immatures Of Aedes Aegypti And Aedes Albopictus*” (2024)
11. **Research guidance:** Nil
12. **Research Projects (Completed and ongoing):** Nil
13. **List of publications:**

**A) Published papers in Journals:**

- B) Dutta M, Chandra G. 2023. Octadecadienoate derivatives from *Michelia champaca* seed extract as potential larvicide and pupicide against Dengue vector *Aedes albopictus*. BMC Res Notes. 16(212): 1-11. <https://doi.org/10.1186/s13104-023-06487-9>
- C) Dutta M, Chandra G. 2023. *Michelia champaca* seed extract: A novel mosquitocide against the filarial vector *Culex quinquefasciatus*. Int J Mosq Res. 10(2): 23-29. <https://doi.org/10.22271/23487941.2023.v10.i2a.667>
- D) Malla RK, Mandal KK, Dutta M, Chandra G. 2019. An estimation of monthly propagation of dengue vector *Aedes aegypti* in rainwater filled tires. Int J Pest Manag. 1-4 <https://doi.org/10.1080/09670874.2019.1616130>

- E) Mandal KK, Dutta M, Burman S, Malla RK, Das S, Chandra G. Larvicidal Efficacy of *Diospyros kaki* fruit extracts against *Culex vishnui* mosquito. Int J Trop Insect Sci.
- F) Mandal KK, Dutta M, Mandal P, Chandra G. Mosquito larvicidal bioassay with the fruit extracts of *Diospyros kaki* on filarial vector *Culex quinquefasciatus*. Not Sci Biol.

**G) Conference Proceedings:**

1. **Manali Dutta, Aniket Singh and Goutam Chandra\***. “**Leaf Extracts from *Gmelina arborea* as an Effective Mosquito Larvicide Against Vector of Human Lymphatic Filariasis *Culex quinquefasciatus*”** in **Golden Jubilee International Conference on Trends in Zoology**, 3<sup>rd</sup>-4<sup>th</sup> January, 2019 organized by Dept. of Zoology, The University of Burdwan, West Bengal, India.
2. **Manali Dutta, Jagriti Banerjee and Goutam Chandra\***. “**Larvicidal efficacy of leaf extract of *Grangea maderaspatana* against Dengue vector *Aedes albopictus*”** in **India International Science Festival, 2019**, 5-8<sup>th</sup> November, 2019 organized by Ministry of Science and Technology, Ministry of Earth Science, Ministry of Health and Family Welfare, Government of India, held at Biswa Bangla Convention Centre, Kolkata, West Bengal, India.
3. **Manali Dutta, Aniket Singh and Goutam Chandra\***. “**Leaf extract of *Gmelina arborea* as potent larvicidal agent against malarial vector *Anopheles stephensi*”** in **12<sup>th</sup> National Conference on VECTOR-BORNE AND ZOONOTIC DISEASES, Identification to Management**, 15-26<sup>th</sup> November, 2019 organized by Zoological survey of India, Ministry of Environment, Forest and Climate Change, New Alipore, Kolkata – 700053. In Collaboration with Society of Medical Arthropodology, India.
4. **Manali Dutta and Goutam Chandra\***. “**Mosquito larvicidal efficacy of the seed extracts of *Michelia champaca* against *Aedes albopictus*”** in **Two-day national seminar on Popular and Basic sciences: A quest towards foundation of science**, 23-24<sup>th</sup> September, 2022 organised by Sarat Centenary College, Dhaniakhali, sponsored by

Department of Science and Technology and Biotechnology (DSTBT), Government of West Bengal.

5. **Manali Dutta** and Goutam Chandra\*. “**Assessment of Mosquito larvicidal activity of *Grangea maderaspatana* flower extracts against Dengue vector *Aedes albopictus*”** in **5<sup>th</sup> Regional Science & Technology Congress, 2022-2023** (Region: 7 comprising Purba Bardhaman, Paschim Bardhaman, and Hooghly) on 6-7<sup>th</sup> January, 2023 organised by The University of Burdwan and Department of Science and Technology and Biotechnology (DSTBT), Government of West Bengal.

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

**15. Patents:** Nil

**16. Awards:**

1. Won Rani Katyayani Memorial Award from Hooghly Mohsin College for standing 1<sup>st</sup> in 1<sup>st</sup> class in the B.Sc. Examination 2015 in Zoology.
2. Won the University Gold Medal having been placed 1<sup>st</sup> in 1<sup>st</sup> class in the M.Sc. Examination 2017 in Zoology
3. Won the Bhakti-Gouri Memorial Bronze Medal having been secured highest percentage of marks in M.Sc. Examination 2017 in Zoology.
4. Qualified UGC-CSIR NET EXAM JUNE 2017 in Life Science with AIR: 15
5. Qualified GATE 2017 in Life Science with AIR: 166

**17. Other notable activities:**

**Academic work experience:**

1. Short term degree course project work on “Relationship between menstrual health and fastfood consumption, obesity, economical status of the school going adolescent girls of Hooghly.”
2. M.Sc dissertation based on “Isolation and characterization of microbial flora of food and water samples collected from Burdwan town.”

**Hands on training expertise:**

1. Training on PCR based molecular marker study in Hooghly Mohsin college, on Aug 2013, sponsored by DBT, Govt. of India.
2. Training and study on various molecular and microbial culture techniques in the Microbiology Laboratory, NRRI, Cuttack, Orissa from 10th to 13th May, 2017.

**Extracurricular activities:**

1. Completed 4<sup>th</sup> year examination in classical dance Kathak and placed in 1<sup>st</sup>

division with distinction from Bangiya Sangeet Kala Kendra, Kolkata

2. Completed 3<sup>rd</sup> year examination in classical dance Bharatnatyam and placed in 1<sup>st</sup> division with distinction from Bangiya Sangeet Parishad.
3. Completed 7<sup>th</sup> year examination in Rabindra Nritya and placed in 1<sup>st</sup> division with distinction from Bangiya Sangeet Parishad.

**18. Participation in**

**A) Seminars/Symposia/Conferences/Workshops: 5**

**B) OP/RC: Nil**