

CURRICULUM VITAE



Name : DR SUBRATA MALLICK

Designation : ASSOCIATE PROFESSOR OF ZOOLOGY

Department : ZOOLOGY

Academic Qualification : M.Sc., B.Ed., Ph.D., NET

College address : M.U.C. WOMEN'S COLLEGE
DEPARTMENT OF ZOOLOGY
B.C. ROAD
PO: RAJBATI
PURBA BARDHAMAN
WEST BENGAL
PIN CODE: 713104

Phone (Office) : 0342-2533168

Email ID : mallick.subrata60@gmail.com

Permanent address: VILL: PURBA PARA
PO: HALDIBARI
DIST: COOCHBEHAR
STATE: WEST BENGAL
PIN CODE: 735122

Correspondence address: M.U.C. WOMEN'S COLLEGE
 DEPARTMENT OF ZOOLOGY
 B.C. ROAD
 PO: RAJBATI
 PURBA BARDHAMAN
 WEST BENGAL
 PIN CODE: 713104

Specialization: ENTOMOLOGY

Special Qualifications:

- ❖ **CSIR-UGC National Eligibility Test (NET)** for Lectureship in subject Life Sciences (December, 2000)
- ❖ **Doctoral Degree** on “ **Mosquitocidal potential of phytochemicals of *Annona reticulata* L. against *Culex quinquefasciatus* Say**” from The Department of Zoology, The University of Burdwan under the guidance of **Professor Goutam Chandra, Ph.D., D.Sc.** (Registration No.R.Ph.D./Regn/SC/ZOO/142)
- ❖ **Area of Research activity:**
 - **Bio-assay** of mosquito larvicidal, pupicidal, adulticidal, smoke toxicity, and oviposition deterrent activity through **natural products of botanical origin.**
 - **Phytochemical extraction** from different plant's parts through Soxhlet apparatus.
 - **Chemical characterization** of different plant's parts.
 - **Qualitative and quantitative estimation** of phytochemicals of different plants parts.
 - **Isolation and identification of active ingredient** from different plant extracts through Column Chromatography, Thin Layer Chromatography (TLC), **IR, NMR, GCMS, or HRMS.**
 - Determination of **Bio-Diversity Index** of **zooplanktons** through quantitative estimation of zooplanktons of different ponds.

Faculty Development Programme:

- ❖ UGC sponsored orientation course attended at UGC ASC, BU (18th February, 2012 to 16th March, 2012)
- ❖ Refresher Course (Environmental Science) attended at UGC ASC, BU (18 th February, 2014 to 10th March, 2014)
- ❖ UGC sponsored Refresher Course in Life Sciences attended at UGC-HRDC, Ranchi University. Ranchi (From 08.08.2018 to 28.08.2018)
- ❖ UGC sponsored Refresher Course in Life Sciences (Interdisciplinary) attended at UGC-HRDC, NBU, Darjeeling (From 03.03.2021 to 16.03.2021

Award:

1. Awarded "DR. SARVEPALLI RADHAKRISHNAN TEACHING EXCELLENCE AWARD 2021" by 'International Benevolent Research Foundation (IBRF)', Kolkata (incorporated under the Act II of 1882, Govt. of India) (Given at 'Higher Education and Research Summit 2021' on 5th September, 2021 at the Westin, Kolkata, West Bengal, in the presence of National and International dignitaries).
2. Awarded "National Environmental Education and Research Excellence award" by 'International Foundation for Environment and Ecology (incorporated under the Act II of 1882, Govt. of India) (given on the occasion of 7th International Conference on Environment and Ecology held on 26-27-28th November 2021

Organization of seminar:

1. UGC sponsored national seminar entitled, 'Resurgent vector-borne diseases and climate change: a threat to mankind' on 15th & 16th December, 2010, organized by Department of Zoology, Maharajadhiraj Uday Chand women's college, Burdwan, West Bengal (member of the organizing committee)
2. Seminar entitled "Mosquito Borne diseases, their control and perspective of environmental health" held on 4th September, 2020 (organized by Department of Zoology, M.U.C. Women's College, Burdwan, West Bengal) (Convenor of the organizing committee)

Brief Biography:

I had completed my **M.P. (WBBSE)** and **H.S. (WBCHSE)** from **Haldibari High School (HS)**, PO: Haldibari Dist: Coochbehar. I stood **first position** in **Madhyamik Pariksha** among the students of Haldibari High School (HS) and **2nd position** in subdivisional level in the year 1984. I have completed my **B.Sc. in Zoology Honours** from **A.C. College, Jalpaiguri**. After completing **M.Sc. degree with 1st class** from **North Bengal University**, I had joined to **B.P.R.N High School, Jalpaiguri** as an assistant teacher of Life Science. During this time, I had completed **B.Ed. degree with 1st class** and qualified **UGC – NET**.

I had been recommended by C.S.C., West Bengal to join **Kurseong College, Darjeeling, West Bengal** on April, 2005. But I did not join at that time due to some problems.

I have joined **M.U.C Women's College** as an **Assistant Professor of Zoology, Stage-I** (earlier designation Lecturer) on 30.07.2008.

I have been appointed as an assistant Professor of Zoology at **Anandamohun College, Kolkata** in the year 2017 (Through recommendation of C.S.C) but I did not join.

I have been awarded my **Ph.D. degree** entitled "**Mosquitocidal potential of phytochemicals of *Annona reticulata* L. against *Culex quinquefasciatus* Say**" on 13.01.2020 from Department of Zoology, The University of Burdwan under the supervision of **Prof. Goutam Chandra Ph.D., D.Sc**, Mosquito, Microbiology and Nanotechnology Research Units, Parasitology Laboratory, Department of Zoology, The University of Burdwan.

Publication of research articles:

1. Mallick S, Bhattayacharya K, Chandra G. Mosquito larvicidal potentiality of wild turmeric, *Curcuma aromatica* rhizome extracts against Japanese Encephalitis vector *Culex vishnui* group. *Journal of Mosquito Research*. 2014; **19**(4): 1-7. (ISSN: 1927-646X)
2. Mallick S, Mukherjee D, Chandra G. Evaluation of larvicidal efficacy of acetone leaf extracts of *Annona reticulata* Linn. against *Aedes aegypti*, *Anopheles stephensi* and *Culex quinquefasciatus* (Diptera: Culicidae). *Journal of Mosquito Research*. 2015; **5**(9): 1-7. (ISSN: 1927-646X)
3. Mallick S, Chandra G. Larvicidal potentiality of root extracts of *Annona reticulata* Linn. against the filarial vector *Culex quinquefasciatus* Say (Diptera: Culicidae). *Journal of Mosquito Research*. 2015; **5**(10): 1-7. (ISSN: 1927-646X)
4. Mallick S, Chandra G. Larvicidal activities of extracts of stem bark of *Annona reticulata* against filarial vector *Culex quinquefasciatus*. *International Journal of Pharma and Bio Sciences*, 2015; **6**(3): (B): 1347-1356. (ISSN: 0975-6299)
5. Mallick S, Banerjee R, Chandra G. Mosquito larvicidal potential of ethanol leaf extract of the plant *Annona reticulata* L. against *Aedes aegypti* L. and *Culex quinquefasciatus* Say (Diptera: Culicidae). *Journal of Mosquito Research*. 2015; **5**(19): 1-7. (ISSN: 1927-646X)
6. Mallick S, Chandra G. Larvicidal, pupicidal, oviposition deterrent activity and smoke toxicity of mature leaf extracts of *Annona reticulata* Linn. against filarial vector *Culex quinquefasciatus* Say. *International Journal of Pharma and Bio Sciences*. 2015; **6** (4): (B): 244-253. (ISSN: 0975-6299)
7. Mallick S, Chandra G. Larvicidal efficacy of root and stem bark extracts of the plant, *Annona reticulata* against filarial vector, *Culex quinquefasciatus*. *Journal of Mosquito Research*. 2016; **6** (3): 1-8. (ISSN: 1927-646X)
8. Mallick S, Mukherjee D, Sinhgga Ray A, Chandra G. Larvicidal efficacy of fruit peel extracts of *Citrus maxima* against *Culex quinquefasciatus*. *Journal of Mosquito Research*. 2016; **6**(20): 1-8. (ISSN: 1927-646X)
9. Mallick S, Adhikari U, Rawani A, Chandra G. Phytochemical analyses and larvicidal potentiality of fruit peel extracts of *Citrus limetta* against filarial vector *Culex quinquefasciatus*. *International Journal of Mosquito Research*. 2016; **6**(22): 1-7. (ISSN: 1927-646X)

10. Mallick S. Role of leaf extracts of *Annona reticulata* Linn. plant as larvicidal agent against Japanese Encephalitis vector, *Culex vishnui*. *Uttar Pradesh Journal of Zoology*. 2021; **42**(15): 101-109. (UGC Care listed) (ISSN: 0256-971X (P))
11. Mallick S. Phytochemical screening and mosquito Larvicidal efficacy of root extracts of *Elettaria cardamomum* (L.) Manton against *Culex quinquefasciatus* Say. *Uttar Pradesh Journal of Zoology*. 2021; **42**(24):317-327. (UGC Care Listed) (ISSN: 0256-971X (P))
12. Adhikari U, Ghosh A, Mallick S, and Chandra G. Predation potentiality of *Notopterus notopterus* on JE vector, *Culex vishnui*. 2021; **8**(3): 01-05. (SCI) (ISSN: 2348-5906)
13. Mallick S. Larvicidal potential of rhizome extracts of *Elettaria cardamomum* (L.) Manton against filarial vector, *Culex quinquefasciatus* Say, 1823 (Diptera: Culicidae). *Entomon*. 2022; **47**(1):51-60. (UGC Care listed)
14. Mallick S. Chandra G. GC-MS, FT-IR and ¹H NMR profiling of bio-active phytoconstituents of the TLC fraction of ethyl acetate leaf extract of medicinal plant, *Annona reticulata* L. *International Journal of Pharmacy and Biological Sciences*. 2022; **12**(1): 25-33. (Previously it was under UGC approved Journal List) (ISSN: 2230-7605)

Book Chapter:

1. Mallick S, Chandra G. Biochemical Profiling of Primary and Secondary Metabolites of *Annona reticulata* Leaf with their Seasonal Fluctuations. *Recent Trends in Biochemistry*. MedDocs Publishers LLC. 2020; Vol 3, PP 1-10.

Presentation of research articles in seminar:

1. Paper entitled "Mosquito larvicidal potentiality of *Holooptelea integrifolia* leaf extract against *Culex vishnui*" was presented in UGC sponsored national seminar on 'Promoting biocontrol agents for human well-being' organized by Department of Zoology, Bankura Christian College, Bankura West Bengal (held on 11th and 12th January, 2012).
2. Paper entitled "A comparative study on dissolved oxygen, free carbon di oxide and zooplankton diversity of some ponds between two seasons (Rainy and Spring) at a point of time of Burdwan town, WestBengal" was presented in 22nd West Bengal State Science and Technology Congress – 2015 (organized by Deptt. Of Science and Technology, Government of West Bengal, and Department of Chemistry, N.B.U.)
3. Paper entitled " Larvicidal potential of fruit peel extracts of *Citrus limetta* against filarial vector *Culex quinquefasciatus* was presented in 23rd West Bengal State Science and Technology Congress –

2016 organized by Department of Science and Technology, Govt. of West Bengal, and Presidency University.

4. Paper entitled, “Mosquito larvicidal efficacy of *Annona reticulata* Linn. leaf extracts against Japanese Encephalitis vector, *Culex vishnui* group” was presented in 6th International Conference on Environment and Ecology (held on 24th to 26th February, 2020) at University of Allahabad- A Central University), Prayagraj, Uttar Pradesh, India.

5. Paper entitled, “Impact of COVID-19 pandemic situation on education system of India” was presented in International Web Conference named, ‘Covid-19 Second Wave: Challenges for Sustainable Development (CCSD 2021)’ jointly organized by ABRF Prayagraj (U.P.), SPC Government College Ajmer (Rajasthan), Govt. KRG Post Graduate (Autonomous) College, Gwalior (M.P.), Govt. Degree College Doda (J. and K.), Digambarrao Bindu ACS College, Bhokar, Nanded (M.S.), Darsh College of Education, Gohana, Sonapat (Haryana) and GESA, New Delhi (held on 13, 14 and 15 th September, 2021).

6. Paper entitled, “Larvicidal efficacy of fruit extracts of *Crinum asiaticum* L. (Amaryllidaceae) against filarial vector, *Culex quinquefasciatus* Say, 1823 (Diptera: Culicidae) was presented in International Interdisciplinary Conference on “COVID-19: Challenges and impact on health, environment, livelihood and education” jointly organized by IBRF, Kolkata, Govt. Degree (P.G.) College, Jammu and Kashmir, CIU, New Delhi, and SERI, Kolkata, W.B. (held on 28, 29, and 30 th May, 2021).

7. Paper entitled, “Mosquito larvicidal and oviposition deterrent potentiality of *Annona reticulata* L. leaf extracts against *Culex quinquefasciatus* Say.” Was presented in International Interdisciplinary Conference on “COVID-19: Challenges and impact on health, environment, livelihood and education” jointly organized by IBRF, Kolkata, Govt. Degree (P.G.) College, Jammu and Kashmir, CIU, New Delhi, and SERI, Kolkata, W.B. (held on 28, 29, and 30 th May, 2021).

8. Paper entitled, “Coral reef and threat to them- a review” was presented in ‘International Multidisciplinary Conference on “ Geography, Environment and Sustainable Development’” jointly organized by IBRF, Kolkata, W.B., CIU, New Delhi, and SERI, Kolkata (held on 02, 03, and 04 th July 2021).

9. Paper entitled, “The impact of climate change on the biodiversity of Sundarban of India – a review.” was presented in “International Webinar on “Ecology, Restoration and Management” jointly organized by IASR, Kolkata, West Bengal, Barrackpore Rastraguru Surendranath College, West Bengal and SERI, Kolkata (held on 12-13-14 th June, 2021).

10. Paper entitled, “ Impact of COVID-19 on Higher Education System” was presented in “ International Multidisciplinary Webinar on “ Impact of Covid 19 on Higher Education System” Jointly organized by IBRF, Kolkata, West Bengal, Govt. Kamala Raja Girl’s PG (Autonomous) College, Gwalior, Madhya Pradesh, and CIU, New Delhi (held on 6-7-8 th August 2021)

Seminar, Conference, Symposium and Workshop Attended:

1. Participated in UGC sponsored national seminar on “Resurgent vector-borne diseases and climate change: a threat to mankind” on 15th & 16th December, 2010, organized by Department of Zoology, Maharajadhiraj Uday Chand women’s college, Burdwan, West Bengal.
2. Participated in UGC sponsored Two-day international seminar on “Global warming” on 23-24 November, 2011, organized by Burdwan Raj College, Burdwan.
3. Participated in UGC sponsored national seminar on “women & society in colonial India: debates and Discourses” on 29-30 November, 2011, organized by Department of History, Maharajadhiraj Uday Chand women’s college, Burdwan, West Bengal.
4. Participated in UGC sponsored national seminar on “Challenges of biology in the 21st century” on 1st-2nd December, 2011, organized by Department of Botany, Maharajadhiraj Uday Chand women’s college, Burdwan, West Bengal.
5. Participated in UGC sponsored national seminar on “Promoting biocontrol agents for human well-being” on 11 th and 12th January, 2012 organized by Department of Zoology, Bankura Christian College, Bankura West Bengal.
6. Participated in UGC-DRS Seminar on “Bioprospecting of Natural Products” held on 05 and 06 th December, 2013 organized by Department of Zoology, University of Burdwan, Burdwan.
7. Participated in UGC sponsored national seminar on “Frontier in Chemistry” on 4th and 5th December, 2013 organized by Department of Chemistry, Maharajadhiraj Uday Chand women’s college, Burdwan, West Bengal.
8. Participated in UGC sponsored national seminar on “Swami Vivekananda and the present day Indian society” on 2013, organized by Department of Philosophy, Maharajadhiraj Uday Chand women’s college, Burdwan, West Bengal.
9. Participated in NAAC sponsored workshop on “Quality assurance initiatives in higher education: challenges, trends and priorities” on 25-26 th September, 2013 organized by Maharajadhiraj Uday Chand women’s college, Burdwan, West Bengal.
10. Participated in UGC sponsored national seminar on “Debates on the 18 th century history of India: a progress or a decadence” 2014, organized by Department of History, Maharajadhiraj Uday Chand women’s college, Burdwan, West Bengal.
11. Participated in “23rd West Bengal State Science and Technology Congress – 2016” (organized by Department of Science and Technology, Government of West Bengal, and Presidency University)

12. Participated in Seminar entitled 'Nurturing nature for sustainable new normal beyond pandemic' organized by Department of Botany held on 04.07.2020.

13. Participated in International webinar entitled "Issues and challenges of sustaining civil rights, education and economy" organized by Department of Commerce and B.Voc (Software Development), Egra S.S.B. College, Purba Medinipur, W.B. in collaboration with NAV-BANDHAN, Burdwan NVM Alumni Welfare Association, W.B.

14. Participated in the virtual International seminar on "New normal in fisheries sector amidst and post COVID-19 in India" organized by TNJFU Business School (Fisheries), Chennai during 31.07.2020-02.08.2020.

15. Participated in International Seminar entitled "Contemporary issues in Biodiversity and its related Technologies" organized by Department of Zoology and Department of Geography, Chakdaha College held on 30 th August, 2020.

16. Participated in International Webinar entitled "Climate change, Biodiversity and Conservation in Northern West Bengal" organized by Department of Environmental Studies" Birsa Munda College, Darjeeling, held on 27 th August, 2021.

Sd/
Dr Subrata Mallick