Dr. Ujjwal Malik

Assistant Professor
Department of Zoology
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Personals

Date of Birth: 07-01-1987, **Nationality-**Indian, **Marital Status:** Married

Religion-Hinduism

Research Experience and Interest

Characterization and estimation of surface wax alkanes, Characterization and estimation of free fatty acids from leaf surface waxes, Characterization and estimation of long-range volatiles organic compounds (VOCs) from undamaged and insect damaged leaves, Thin Layer Chromatography (TLC), **SPME, Identification with coupled gas chromatography-mass spectrometry (GC-MS), GC-FID, HPLC, GC-EAD, The olfactometer & Wind tunnel bioassay, Courting pheromone, Catalepsis behaviour, Interaction in between HIPVs and spider. Mechanism of biological invasion from the perspective of secondary metabolite and volatiles organic compounds (VOCs) presence of abiotic & biotic factors.**

Position Held

Assistant Professor in Zoology: Netaji Mahavidyalaya, Arambagh, Hooghly-January 2017 to till date.

Post-Doctoral Researcher-October, 2019 to September, 2020, Jinggangshan University, China; Advisor: Prof. Yonghong Xiao.

Visiting Scientist -October, 2023 to December, 2023. Jiangsu University, China., Advisor: Prof. Daolin Du.

Education

Ph.D- May, 2017 from The University of Burdwan (February, 2012- May, 2017) under the supervision of Dr. Anandamay Barik.

Title of the Ph.D thesis**-"Chemical interactions between the weed, *Polygonum orientale* L. (Polygonaceae) and the herbivore, *Galerucella placida* Baly (Coleoptera: Chrysomelidae)"**

M.Sc-Zoology (Special Paper-Environmental Biology), Visva-Bharati,Santiniketan, India, (July, 2008-May, 2010, 1st class)

B.Sc- Zoology, Visva-Bharati,Santiniketan, India, (July, 2005-May, 2008, 1st class)

Publications in peer reviewed journals

1. Das, Swati., **Malik, U.** and Barik, A. (2018). Effect of thermal stress on antioxidant responses of the biocontrol agent *Galerucella placida* Baly (Coleoptera: Chrysomelidae). International Journal of Tropical Insect Science 38:400–409. **(I.F-0.659)**
2. **Malik, U.,** Mitra, S. and Barik, A. (2017). Attraction of the biocontrol agent, *Galerucella placida* Baly (Coleoptera: Chrysomelidae) to the leaf surface alkanes of the weed, Polygonum orientale. Allelopathy Journal 40:103–116. **(I.F-1.050)**

3. **Malik U.,** Das, S. and Barik, A. (2016). Biology of *Galerucella placida*, a potential biocontrol agent of the rice-field weed Polygonum orientale. Proceedings of the Zoological Society. 71:257–264. Online ISSN: 0974-6919

4. **Malik, U**., Karmakar, A. and Barik A. (2016). Attraction of the potential biocontrol agent *Galerucella placida* (Coleoptera: Chrysomelidae) to the volatiles of Polygonum orientale (Polygonaceae) weed leaves. Chemoecology 26: 45–58. **(I.F-1.863)**
5. **Malik, U.,** Karmakar, A. and Barik, A. (2016). Variation in fatty acids throughout the developmental stages of Vigna unguiculata (L.) Walp. Leaves. Botany Letters 163: 461–468. **(I.F-1.342)**
6. Adhikary, P., **Malik, U.** and Barik, A. (2016). Oviposition behavior of Callosobruchus maculatus (F.) (Coleoptera: Chrysomelidae: Bruchinae) on four varieties of Lathyrus sativus L. seeds. Entomon 41:1–10. **NAAS rating 4.42**
7. Adhikary, P., **Malik, U.** and Barik, A. (2016). Effects of four varieties of Lathyrus sativus L. seeds on the bionomics of Callosobruchus maculatus (F.) (Coleoptera: Bruchidae). The Canadian Entomologist 148: 102–111. **(I.F-1.264)**
8. Karmakar, A., **Malik, U.** and Barik, A. (2016). Effects of leaf epicuticular wax compounds from Solena amplexicaulis (Lam.) Gandhi on olfactory responses of a generalist insect herbivore. Allelopathy Journal 37:253–272. **(I.F-1.050)**
9. **Malik, U.** and Barik, A. (2016). Volatiles, and surface wax long-chain alkanes and free fatty acids from Polygonum orientale L. (Polygonaceae) flowers. Botany Letters 163: 453–460. **(I.F-1.342)**
10. **Malik, U.** and Barik, A. (2015). Free fatty acids from the weed, Polygonum orientale leaves for attraction of the potential biocontrol agent, *Galerucella placida* (Coleoptera: Chrysomelidae). Biocontrol Science and Technology 25: 593–607. **(I.F-0.95)**
11. Sarkar, N., **Malik, U.** and A. Barik. 2014. "n-alkanes in Epicuticular Waxes of Vigna unguiculata (L.) Walp. Leaves." Acta Botanica Gallica: Botany Letters 161: 373–377. **(I.F-1.342)**
12. Mukherjee, A., **Malik, U.** and Barik, A. (2014). Allelopathic effects of the weed, *Polygonum orientale* L. on Jute. Indian J. Agric. Res.,48: 278 – 286. **NAAS rating-4.86**

13. **Malik, U.** (2020). A review on-Volatile-mediated tritrophic interaction. International Journal of Entomology Research. 6:27-29.
14. **Malik, U.** (2020). A review on- Chemical attraction in between the Polygonum and its insects. International Journal of Entomology Research. 6:269-274
15. **Malik, U.** (2025). Exposure to Morphine Influences the Activity and Behavior of the Funnel-web Spider *Pireneitega luctuosa*. Bioscience Biotechnology Research Communications. 18:24-30.
16. **Malik, U.** (2026). Abiotic & biotic stress impact the constitutive & induced chemicals of invasive plants leading to various adaptive strategies. Phytochemistry review **(Under Review)**.

Book Chapter:

1. Adeel Abbas et al. Chapter 9-Manganese dynamics: effects of pollution and its impact on soil chemistry. Beneficial Elements for Remediation of Heavy Metals in Polluted Soil, Elsevier. 2025, Pages 241-257.
2. Adeel Abbas et al. Chapter 5 - Evaluation and monitoring of chromium and beneficial elements. Beneficial Elements for Remediation of Heavy Metals in Polluted Soil, Elsevier. 2025, Pages 141-160

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https://scholar.google.co.in/citations?user=xZCzjFsAAAAJ&hl=en

Presentations in Conference/Experience

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1. Morphine exposure affects locomotory activity and behaviour of the funnel web spider *Pireneitega luctuosa* **Ujjwal Malik, oral presentation** in the **International Conference** at The University of Burdwan, Burdwan, India. 22--24 June 2023.

2. Abiotic & biotic stress modulates Constitutive & Induced Chemicals of invasive plant: A review- **Ujjwal Malik, Poster presentation** in the **One-Day International Seminar On Frontiers of Science 2024** at Jhargram Raj College, West Bengal, India. 29th February 2024.

3.“Volatiles causing attraction of the potential biocontrol agent, Galerucella placida Baly (Coleoptera: Chrysomelidae) toward Polygonum orientale (Polygonaceae)” **Ujjwal Malik, Poster presentation** in the **National Conference** at North-Eastern Hill University, Shillong, India. 19-20 April 2018.

4. “Long-chain fatty acids: Allelochemicals for attracton of the potential biocontrol agent, Galerucella placida Baly (Coleoptera: Chrysomelidae)” **Ujjwal Malik, oral presentation** in the **National Conference** at University of North Bengal, West Bengal,India. 11-12 December 2015.

5. Attended **International Symposium on Genetic Analysis Translational and Development**, Burdwan, West Bengal. 21-23 November 2014.

6. Attended **National Seminar** on **Bioprospecting of Natural Products**, Burdwan, West Bengal. 5-6 December 2013.

7. Participated Workshop on **Frontiers in Molecular Biology and Basic Flowcytometry**, Burdwan, West Bengal. 9th July 2012.

Awards and Honours

1. Awarded Visiting Scientist Fellowship, Jiangsu University, China, 2023

2.Awarded Post-Doctoral Researcher, Jinggangshan University, China, 2019

3. Senior Research fellowship-June, 2016

4. Junior Research fellowship-June, 2012

5. Awarded SET-Conducted by West Bengal College Service Commission, West Bengal, India on December, 2014.

6. Qualify Joint MTech/ MCP-Ph.D. Admission 2011-12 at IIT Kharagpur.

7. Awarded GATE- Conducted by IIT, Ministry of Human Resource Development (MHRD), India on February, 2011.