

Dr. Ujjwal Malik

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Personals

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

Religion: Hinduism

Highlights

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.**

Position Held

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

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

Research Experience -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)

Research Experience and Interest

Spider Sexual behaviour, Tritrophic interaction, Ecology, Plant-insect interaction, Antioxidant enzyme response, Nutritional Ecology of insect

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

Average Impact Factor (I.F): 1.0, Total Citations: 149, h-index: 07, i10-index-07.

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

Presentations in Conference/Experience

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 short-term Researcher, Jiangu University, China, 2023

2. Awarded Post-Doctoral Researcher, Jingtangshan 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.