

CURRICULUM VITAE



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7. Area of Specialization : Parasitology and Microbiology, Applied entomology with special reference to Pest biology and their biorational management.

Publications:

1. Mondal, E. and Chakraborty, K. 2024. Extent of damage to paddy by yellow stem borer *Scirpophaga incertulas* (Walker, 1863) (Lepidoptera: Crambidae) under different doses of inorganic nitrogenous fertilizers at Hooghly, West Bengal, *Journal of soils and Crops*, 34(1), pp.116-123.
2. Mondal, E. and Chakraborty, K. 2024. Thorn apple-A Plant with Innumerable Applications: An Overview, *Ecology, Environment and Conservation*, 30 (2), pp. 865-872.
3. Mondal, E., Satpathi, C.R. and Chakraborty, K. 2023. "Predictive assessment on the efficacy of pheromone trapping to alter sex ratio of Yellow Stem Borer, *Scirpophaga incertulas* (Wlk.) population in rice field at Hooghly, West Bengal, India", 'Extended summaries' Second Indian Rice Congress 2023, pp.373-374.
4. Mondal, E. and Chakraborty, K. 2023. Understanding the Utility of Print Media for Dissemination of Insect Pest Management Tactics to Rice Farmers at Hooghly, West Bengal, India, *Advancement of GI-Science and Sustainable Agriculture*, *GI Science and Geo-environmental Modelling*, Springer Nature (Switzerland), pp. 305-322.
5. Mondal, E. and Chakraborty, K. 2023. "Effect of pheromone lure and bio-rational insecticides to check *Scirpophaga incertulas* in rice field at Hooghly, West Bengal." *Journal of soils and Crops*, 33(2), pp.353-360.
6. Mondal, E. and Chakraborty, K. 2023. "Observation on the Seasonality of Rice Yellow Stem Borer, *Scirpophaga incertulas* Wlk. and Optimization of Pheromone Trapping Practice at Hooghly, West Bengal, India". Proceedings of International Conference on Current

Advances in Agriculture, Animal Husbandry and Allied Sciences "CAAAAS-2023" at Shri Mata Vaishno Devi University, Katra, India, pp.91-103.

7. **Mondal E. and Chakraborty K.** 2022. Mating Disruption of Rice Yellow Stem Borer (*Scirpophaga incertulas* Walker) as an effective rice-IPM tactics by Sex Pheromone trapping at Hooghly, West Bengal. Reflectivity (Multidisciplinary edited book), Toucan Research and Development, Jharkhand, India, 1, pp.34-46.
8. **Mondal, E. and Chakraborty, K.** 2022. Extent of crop herbivory by lepidopteran insect pests with special reference to rice yellow stem borer and its effective control by using phyto-formulations in agrarian ecosystem: a case study. Medico-Biowealth of India, APRF Publishers Ambika Prasad Research Foundation 5A/561, CDA, Sector 9, Cuttack, Odisha, 4, pp-175-194
9. **Mondal, E. and Chakraborty, K.** 2022. A Report on Isolation of mycotoxigenic Fungus from the Larval Body Surface of Paddy Pest, Yellow Stem Borer, *Scirpophaga incertulas* (Walker) (Pyralidae : Lepidoptera), *Ecology, Environment and Conservation*, 28(1), pp.416-421.
10. **Mondal, E. and Chakraborty, K.** 2022. Relative efficacy of selected insecticides to check rice yellow stem borer *Scirpophaga incertulas* (Walker) (Lepidoptera, Pyralidae) at Hooghly, West Bengal, India, *Entomon*, 47(4), pp.391- 396.
11. **Mondal, E. and Chakraborty, K.,** 'Extent of mechanical grain damage by *Sitophilus oryzae* and dissemination of *Aspergillus* sp. at humid condition'. Proceedings of UGC sponsored National Conference on Biophysics: Impact on Today's society, Victoria Institution, Kolkata, 2017, pp. 99-98.
12. **Mondal, E., Majumdar, S. and Chakraborty, K.,** Report on *Sitophilus oryzae* as a carrier of fungal pathogen of rice grain with a note on the nature of grain damage at upper gangetic plains of west Bengal, *World J. Phrm. Med. Res.*, 2(5) (2016), 139-145.
13. **Mondal, E. and Chakraborty, K.,** *Azadirachta indica* tree with multifaceted applications: overview, *J. Pharm, sci. Res.*, 8(5) (2016), 299-306.

Presentation of papers in seminars /conferences

1. **Mondal, E.,** "Population dynamics of *Sitophilus oryzae* within stored rice grain in laboratory condition", State level seminar on the celebration of Biodiversity Day, organized by Biodiversity management committee, Tarakeswar municipality supported by W.B. Biodiversity board, Govt. of W.B., 27th June, 2015.
2. **Mondal, E. and Chakraborty, K.,** "Observation on the extent of grain weight loss due to the infestation of *Sitophilus oryzae* in four selected rice cultivars at low humidity", Departmental seminar on "From genome to biome", Organized by Department of Zoology, University of Gour Banga, Malda, W.B., 8th January 2016.
3. **Mondal, E.,** "Observation on the grain weight loss due to the infestation of *sitophilus oryzae* in four selected rice cultivars in relative environmental humidity", West Bengal state science & technology congress 2016. (In section of Animal science), Organized by

Department of Science and Technology, Govt. of West Bengal, West Bengal State, 28th-29th February, 2016.

4. **Mondal, E. and Chakraborty, K.,** "Eco-friendly stored grain's protection against the insect pests by using the bio-products", International Seminar on "Changing geo-environmental processes and societal adjustment", organized by Department of Geography, University of Gour Banga, 30th August, 2016.
5. **Mondal, E. and Chakraborty, K.,** "Report of *Sitophilus oryzae* as a mechanical vector of *Aspergillus* sp for rice grain with a note on the amount of grain loss in relative environmental humidity", UGC sponsored National Conference on "Biophysics: Impact on today's society", Organized by Department of Zoology and Department of Physics. Victoria Institution in collaboration with Bangabasi Morning College, Kol-09, September, 7th-8th, 2016.
6. **Mondal, E. and Chakraborty, K.,** "Extent of tolerance of *Sitophilus oryzae* to 'temperature ramping' at laboratory condition", 1st Regional science & technology congress 2016 (In the section of Agricultural Science), Organized by Department of Science and Technology, Govt. of West Bengal, November 13th-14th, 2016.
7. **Mondal, E. and Chakraborty, K.,** "Efficacy of some botanicals for controlling the Rice weevil during storage of rice grains at upper Gangetic plane of West Bengal", International conference on "The green planet: past, present and Theme: Pharmacology and Biomedicine Future" organized by CAS-VII, Department of Botany, University of Calcutta in collaboration with Prabir Chatterjee Research Foundation & Botanical Survey of India, December 21st - 23rd, 2016.
8. **Mondal, E. and Chakraborty, K.,** "Activity Of Four Common Powdered Spices As Repellents Against Adult *Sitophilus oryzae* In Laboratory Conditions", Seminar on "Biodiversity-its uses in sustainable development", Department of Zoology, University of Gour Banga, January 19th, 2017.
9. **Mondal, E. and Chakraborty, K.,** "Percentage of rice grain damage by *sitophilus oryzae* during different climatic conditions throughout a year in malda district", UGC SAP National Seminar on "Effect of climate change on faunal diversity", organised by Department of Zoology, University of Kalyani, February 27th, 2017.
10. **Mondal, E. and Chakraborty, K.** "Compatibility of Bio-rational Insecticides and Pheromone Lure to Environment for Suppression of Yellow Stem Borer, *Scirpophaga incertulas*, Walker induced damage in Rice field (var. *Lalat*) at Hooghly, West Bengal", 6th State Science & technology congress 2023-24, organized by Department of Science and Technology, Govt. of West Bengal, Science city, Kolkata, W.B. on February 28-29, 2024.
11. **Mondal, E. and Chakraborty, K.** "Compatibility of Bio-rational Insecticides and Pheromone Lure to Environment for Suppression of Yellow Stem Borer, *Scirpophaga incertulas*, Walker induced damage in Rice field (var. *Lalat*) at Hooghly, West Bengal", 6th Regional science & technology congress 2023-24, organized by Department of Science and

Technology, Govt. of West Bengal, Berhampore Govt. Textile Engineering College, Murshidabad, W.B. on January 18-19, 2024.

12. **Mondal, E. and Chakraborty, K.** "Prevalence of Rice Yellow Stem Borer, *Scirpophaga incertulas* Walker Population and extent of Crop Damage in Relation to Agro-ecological Conditions at Hooghly, West Bengal During Boro Crop Season", 6th International Conference organized by Crop and Weed Science Society (CWSS), Kalyani, Nadia, West Bengal September 30 -October 2, 2023.
13. **Mondal, E. and Chakraborty, K.** "Admitting a Web-Based Decision Support System IPM-PIPE, for Rice Yellow Stem Borer, *Scirpophaga incertulas* Walker at Hooghly, West Bengal", International Seminar on 'A Multidimensional outlook', organized by Department of Geography Rampurhat College Rampurhat, Birbhum, W. B. India, 731224, on September 1-2, 2023.
14. **Mondal, E. and Chakraborty, K.** "Observation on the Seasonality of Rice Yellow Stem Borer, *Scirpophaga incertulas* Wlk. and Optimization of Pheromone Trapping Practice at Hooghly, West Bengal, India", International Conference on Current Advances in Agriculture, Animal Husbandry and Allied Sciences "CAAAAS-2023" organized by Shri Mata Vaishno Devi University, Katra (India) on July 10-11, 2023.
15. **Mondal, E. and Chakraborty, K.** "Management of the Rice Yellow Stem Borer, *Scirpophaga incertulas* with the Dissipation of Sex Pheromone by Funnel Traps at Hooghly, West Bengal", Multidisciplinary National Seminar organized by Bhadrakali College, Itkhor, Chatra, Jharkhand, India, on January 30-31, 2023.
16. **Mondal, E. and Chakraborty, K.** "Optimization of the suitable time period to collect Rice Yellow Stem Borer, *Scirpophaga incertulas* by pheromone trapping at Hooghly, West Bengal", International Conference organized by Guskara Mahavidyalaya, Purba Bardhaman, W.B. India on March 5-6 2023.
17. **Mondal, E. and Chakraborty, K.** "Efficacy of Botanical Insecticides Against Rice Yellow Stem borer, *Scirpophaga incertulas* Walker Under Field Conditions", 5th State Science & technology congress 2022-23, (In section of Agricultural science), organized by Department of Science and Technology, Govt. of West Bengal Science city, Kolkata, W.B. on February 28- March 1, 2023.
18. **Mondal, E. and Chakraborty, K.** "Predictive assessment on the efficacy of pheromone trapping to alter sex ratio of Yellow Stem Borer, *Scirpophaga incertulas* (Wlk.) population in rice field at Hooghly, West Bengal, India", Second Indian Rice Congress-2023, organized by Association of Rice Research Workers Cuttack, Odisha, India Cuttack, Odisha, India, on February 11-14, 2023.
19. **Mondal, E. and Chakraborty, K.** "Efficacy of Botanical Insecticides Against Rice Yellow Stem borer, *Scirpophaga incertulas* Walker Under Field Conditions", 5th Regional science & technology congress 2022-23, (In section of Agricultural science), organized by Department of Science and Technology, Govt. of West Bengal University of Gourbanga, Malda, W.B. on January 11-12, 2023.

20. **Mondal, E. and Chakraborty, K.,** "Comparative efficacy of some selected botanicals against Yellow Stem Borers (*Scirpophaga incertulas*, Walker) of rice in Southern part of West Bengal" One Day International Seminar on "Emerging Trends in Biological Sciences", organized by Department of Botany Suri Vidyasagar College on November 8, 2022.
21. **Mondal, E. and Chakraborty, K.,** "Use of Pheromone trap as an effective way for mating disruption of Rice Yellow Stem Borer, *Scirpophaga incertulas* (Walker) aiming to check crop damage at Hooghly, West Bengal", Multidisciplinary National Seminar on "Innovative, Information, and Applied Global Research System: Issues and Challenges" organized by International centre for Scientific Research and Development (ICSRD), Bengaluru, Karnataka on June 25-26, 2022.
22. **Mondal, E. and Chakraborty, K.,** "Study on the Impact of Inorganic N Fertilizer on Plant Yield attributing Characters, Rice Grain yield and the Incidence of Yellow Stem Borer, *Scirpophaga incertulas* Wlk. (Pyralidae: Lepidoptera) at Hooghly, West Bengal, India", Multidisciplinary National Seminar on "Preprocessing functional data by a factor model approach in different research discipline" organized by NVTTRI, Dhanbad, Jharkhand on January 7-8, 2022.
23. **Mondal, E. and Chakraborty, K.,** "Assessment on the efficacy of some bio-rational pesticide formulations for the management of yellow stem borer, *Scirpophaga incertulas* Wlk. in field condition at Hooghly, West Bengal", International Conference on Integrated approaches towards sustainable management of environment for save food, nutrition and improved health organized by Dept. of Food and Nutrition, University of Kalyani, Kalyani, on December 15-17, 2021.
24. **Mondal, E. and Chakraborty, K.,** "Report on the Transmission of mycotoxigenic fungus, *Aspergillus flavus* by Rice Yellow Stem Borer, *Scirpophaga incertulas* Wlk. (Pyralidae: Lepidoptera)", International webinar on Host-microbe interaction: present and future perspective organized by Presidency University, Kolkata on December 1-2, 2021.
25. **Mondal, E. and Chakraborty, K.,** "Diversity of important egg parasitoids of paddy yellow stem borer, *Scirpophaga incertulas* Wlk. at Champadanga, Hooghly, West Bengal", 7 th International Conference on Environment and Ecology (ICEE) organized by International Foundation for Ecology and Environment, Kolkata, on November 26-28, 2021.

Participation in workshop programme:

1. Hands on training workshop on Microbiological tools and techniques, organized by Department of Zoology, University of Gour Banga, Malda, March 3rd-7th, 2017.
2. A seven-day National Workshop cum hands on training program on Transmission Electron Microscopy organized by USIC, Golapbag campus, Bardhaman, February, 7-13, 2023.
3. National training program on molecular techniques in Microbial diversity analysis, trends and advances organized by ICAR-NBAIM, MAU, Uttarpradesh, November 23-30, 2022.