


BIODATA

Title	Dr.	FirstName	Mahaswetta	Last Name	Saikia	Photograph
Designation		Associate Professor				
Address		Hansraj College Department of Botany University of Delhi, North Campus Delhi-110007				
Phone No Office		011-27667458				
Residence		B-193, Upper ground floor, Gujranwala town, Part 1 Delhi-110009				
Email		msaikia@hrc.du.ac.in				
Educational Qualifications:						
Degree		Institution				
Ph.D.		University of Delhi (Ph.D. Botany) Title: Identification of diverse midgut serine proteinases in the fourth instar larvae of an economically important sericigenous Lepidoptera from North East India, <i>Antheraea assamensis</i> (Helfer) feeding on <i>Persea bombycina</i> (Kostermans) and <i>Litsea monopetala</i> (Roxburgh), two primary host plant species of the Lauraceae family				

Publications Profile

- **Mahaswetta Saikia. 2023.** Zymograms as a tool to detect PPIs in the host plants of *Antheraea assamensis*. **Journal of Advanced Zoology**. 44(4), 60-68.
- Sochanngam Kashung, Parul Bharadwaj, **Mahaswetta Saikia** and Sudeshna Mazumdar Leighton. **2023.** Midgut serine proteinases participate in dietary adaptations of the castor (Eri) silkworm *Samia ricini* Anderson transferred from *Ricinus communis* to an ancestral host, *Ailanthus excelsa* Roxb. *Frontiers in Insect Science* Vol 3,1-17.
- **Mahaswetta Saikia**, Rakesh Kumar. 2020. Plant Proteinase Inhibitor and Protease Interaction During Insect-Plant Communication. *Plant-Pest Interactions: From Molecular Mechanisms to Chemical Ecology* pp 233-264, Springer.
- **Mahaswetta Saikia. 2017.** Use of medicinal plants in the treatment of women's diseases, in *Scope of phytochemically unexplored medicinal plants*,167-173.Enriched Publications Pvt Ltd. Dwarka, New Delhi-75
- **M. Saikia**, YT Singh, A. Bhattacharya and S Mazumdar-Leighton. **2011.** Expression of diverse midgut serine proteinases in the sericigenous Lepidoptera, *Antheraea assamensis* (Helfer) is influenced by choice of host plant species. **Insect Molecular Biology** **20(1)**, 1-13.
- Y Tunginba Singh, Sudeshna Mazumdar-Leighton, **Mahaswetta Saikia**, Prashant Pant, Sochanngam Kashung, Kartik Neog, Rajen Chakravorty, Suresh Nair, Javaregowda Nagaraju, Cheerukeri Raghavendra Babu. **2012.** Genetic variation within native populations of endemic silkworm *Antheraea assamensis* (Helfer) from Northeast indicates need for in situ conservation. **PLOS One** 7(11): e49972
- **Mahaswetta Saikia**, Birinchi K Medhi. 2008. Indigenous knowledge of the Assamese in the treatment of women's disease, in *Intangible cultural heritage of Assam*, 283-291, Kishor K Basa and Birinchi K.Medhi (ed), Indira Gandhi Rastriya Manav Sanghralaya, Bhopal, Pratibha Prakasan, Delhi-9.

Subjects Taught:

Skill Enhancement Course: Biofertilizers for Botany (H) II year/Life Science II Year

Core Course II: Biomolecules and Cell Biology for Botany (H) I year

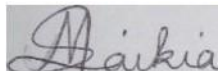
Discipline Specific Elective: Bioinformatics for Botany (H) III year

Discipline Specific Elective: Analytical Techniques for Botany (H) III year

Skill Enhancement Course Ethnobotany for Botany (H) II year

Core Course VIII: Molecular Biology for Botany (H) II year

Discipline Specific Elective: Industrial and Environmental Microbiology for Botany (H) III year



(MAHASWETTA SAIKIA)

