

CURRICULUM VITAE

Title	Dr.	FirstName	Mahaswetta	Last Name	Saikia	Photograph	
Designation	Associate Professor						
Address	Hansraj College Department of Botany University of Delhi, North Campus Delhi-110007						
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Residence	B-193, Upper ground floor, Gujranwala town, Part 1						
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Web-Page							
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						

Administrative Assignments

Year 2022-2023:

Member E.C.A Committee, Hansraj College, D.U

Convener Purchase, Repair and Maintenance Committee, Dept. of Botany, H.R.C. D.U.

Superintendent, Practical Exam, Dept. of Botany, H.R.C. D.U.

Year 2021-2022:

Member of North-East Cell, Hansraj College, D.U

Member E.C.A Committee, Hansraj College, D.U

Year 2020-2021:

Member of North-East Cell, Hansraj College, D.U

Member of Hansraj Career Advancement Steering Committee, Hansraj College, D.U

Member, Flower Show Sub Committee for 2021, organized by University of Delhi

Year 2019-2020

Teacher-in- Charge, Department of Botany, Hansraj College, DU. Being TIC, the duties related to college purchase / election committee / workload committee done as a member.

Convener of admission committee for UG/PG admission in Botany, HRC, 2019-2020.

Member, Flower Show Sub Committee for 2020, organized by University of Delhi

Member, Flower Show Sub Committee for 2019, organized by University of Delhi

Year 2018-2019:

Member of Admission Committee, Department of Botany, for course (Anthropology)-2017(UG) and (Botany /Life Science)-2018 (UG) Hansraj College, University of Delhi.

Year 2017-2018:

Convener of North East Cell for 2017-2018, Hansraj College, University of Delhi

Member of Central Screening committee constituted by University of Delhi, for screening applications received for post of Assistant Professor, Botany,

Academic Assignment

Member (Board of examiners) for setting the question paper of Biofertilizers, 3rd Semester, Life Sciences, Dec 2020.

Member (Board of examiners) for setting the question paper of Biofertilizers (UPC:32163403), Botany (H), 22

Member (Board of examiners) for setting the question paper of Biofertilizers (UPC:42163303) 4th Semester, Botany (H), April 2022

Member (Board of examiners) for setting the question paper of Molecular Biology, 4th Semester, Botany(H), May 2021.

Member (Board of examiners) for setting the question paper of Analytical Techniques in Plant Sciences, 5th Semester, Botany (H), 2019-20

Member (Board of examiners) for setting the question paper of Analytical Techniques in Plant Sciences, 5th Semester, Botany (H), 2019-20

Member (Board of examiners) for setting the question paper of Analytical Techniques in Plant Sciences, 5th Semester, Botany (H), 2018-19.

Member (Board of Examiners) for setting the question paper of Biofertilizers, CBCS Semester, B.Sc (Hons), June 2017.

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

Publications Profile

- **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.
- Birinchi K Medhi, **Mahaswetta Saikia** 2004-2005. Use of medicinal plants in the Assamese Society: the ethnographic scenario, *Bulletin of the Department of Folklore Research, Gauhati University, Vol 6, 118-130.*

Professional Development Activities/Presentations

Seminars /workshop organized:

Organizing Member for Two-day FDP on Agriculture, Health and Society, Hansraj College, University of Delhi, 15th-16th March, 2019.

Organizing Member for Inspire Internship Program-2012, organized at Hansraj College, D.U. held from Dec 17-21, 2012.

Organizing Member for Inspire -2012, organized at Hansraj College, D.U held from Dec 12-16, 2017

Organizing Member for Two-day FDP on Ecology: Modern Perspectives, Hansraj College, University of Delhi, 12th-13th December, 2016.

Organized a Two-day FDP on Recent trends in Microbial Biotechnology, Hansraj College, University of Delhi, 18th-19th March, 2014.

Orientation Program /Refresher Courses/ Faculty Development Program

Participated in Refresher Course, 'Issues of Contemporary world', organized by CPDHE, University of Delhi from 27 Nov- 17 Dec 2018.

Participated in the National Webinar- I "Impact Centric Research: Funding Opportunities and Challenges in Framing Successful Research Proposal" held on 11th July 2020 by Shivaji College, Delhi University.

Participated in Workshop, Leadership and Personality Development Skills, organized by CPDHE, University of Delhi from 25 July- 31 July, 2020 (online course)

Participated in National webinar on 'Online Learning versus Traditional Classroom Learning: Mechanical and Moral Knowledge during the era of Covid-19', organized by Mazbat College, Assam on 5th July, 2020.
Participated in Refresher Course, 'Environmental Sciences and Public Health' organized by Kirori Mal College in collaboration with Mizoram University, Feb 1-5 2022.

Poster Presented/Conference attended:

Participated in National Conference 'Advances in Plant Biology' December 9, 2022.
Participated in the Webinar- "Bioentrepreneurship: Prospects, challenges and opportunities in India", organized by Department of Botany, Hansraj College, University of Delhi on November 26, 2022, Delhi University.
Participated in conference "Insect and Plant Biology" 7-8 October, 2022.
Participated in conference "Genetics and Genomics Technologies for crop improvement" 1-3 August, 2021.
Attended 1st International Conference on Integrative Chemistry, Biology and Translational Medicine, February 26-27, 2019.
Participated in Summit ISW-2020, Jan23-24, 2020
Midgut trypsin participate in adaptation of the Indian eri silkworm, *Samia ricini* Anderson to host plants *Ricinus Communis* L. and *Ailanthus excels* Roxb.S. Kashung, P. Bharadwaj, M. Saikia and S. Leighton, India University of Delhi, NEW Delhi, India, Entomological Society of America, 2017.
Poster titled "Use of medicinal plants in the treatment of Women's Diseases at National Conference on Pharmacognosy, Zakir Husain College, University of Delhi, January 12, 2017

Resource Person:

Delivered a talk on Silkworm and silk, on student webinar organized by Gargaon College, Sivasagar, Assam, 30th June 2020.

Research Experience

2005-2008: **Technical assistant**, Department of Biotechnology, Govt. of India funded project on "Assessment of genetic variability in muga silkworm (*Antheraea assama*) populations using microsatellite markers developed at CDFD, Hyderabad".
June 2009- August 2009: **Project Associate** "Dissection of signal transduction mechanism in *Plasmodium falciparum*", in the Eukaryotic gene expression lab, at **National Institute of Immunology**, Delhi.

Other Activities

Manuscript Reviewer of Journal-Proceeding of National Academy of Sciences, Indian Section B: Biological Sciences for 2014, 2015, 2018.

Skills

Computer proficiency: Completed Course in 'Executive Quick Information Technology Programme' by Software Technology Group International Ltd. New Delhi, on 28th August 2001.
Statistical Software Use: Attended course on Statistical Package for Social Sciences (SPSS) from 18-6-2007 to 22/6/2007, organized by Delhi University Computer Centre, Delhi-110007.

Signature.....

(Dr. Mahasweta Saikia)

Assistant Professor

Dept. of Botany, HRC, D.U

