

CURRICULUM VITAE

Title	Dr.	First Name	Mahaswetta	Last Name	Saikia	Photograph
Designation		Assistant Professor				
Address		Hansraj College Department of Botany University of Delhi, North Campus Delhi-110007				
Phone No Office		011-27667458				
Residence						
Email		mahaswetta@yahoo.co.in msaikia@hrc.du.ac.in				
Web-Page						
Educational Qualifications:						
Degree		Institution				Year
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				2009
Career Profile: (A4-A7)						
13 Dec. 2010- Till date:		Assistant Professor (permanent) Department of Botany, University of Delhi Delhi-110007				
Sep. 2010- 12 Dec. 2010		Assistant Professor (ad hoc) Department of Botany Acharya Narendra Dev College				

August. 2009-April 2010	<p>Delhi University, Delhi-110019</p> <p>Assistant Professor (ad-hoc) Hindu College Department of Botany, University of Delhi Delhi-110007</p>
Administrative Assignments	
<p>Year 2020-2021:</p> <ul style="list-style-type: none"> ➤ 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 <p>Year 2019-2020 (A8-A9)</p> <ul style="list-style-type: none"> ➤ 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 <p>Year 2018-2019:</p> <ul style="list-style-type: none"> ➤ Member of Admission Committee, Department of Botany, for course (Anthropology)-2017(UG) and (Botany /Life Science)-2018(UG) Hansraj College, University of Delhi. <p>Year 2017-2018: (A10-A11)</p> <ul style="list-style-type: none"> ➤ 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 <p>Year 2013-2014: (A12-A13)</p> <ul style="list-style-type: none"> ➤ Departmental coordinator of the DBT Star college team, Hansraj College, D.U for the session 2013-2014 ➤ Member of “Fine Arts” and “English Debating Committee”, Hansraj College, D.U for the session 2013-2014(proof attached with A8) ➤ Convener/Staff Advisor of Botanical Society, Hansraj College, for the session 2014-2015 (till Feb, 	

2015) and Lifescience Society for the session 2013-2014.

- Superintendent of Practical examination, Botany Department, Hansraj College, for the session 2014-2015.

Academic Assignment (A17-A22)

- **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.
- **Member (Board of Examiners)** for setting the question paper of Cell Biology-II, 4th Semester, B. Sc (Hons), 2015- 2016.
- **Convener (Head Examiner)** for setting the question paper of Bioinformatics (LSPT-409), 5th Semester, Botany (Hons), 2014-15.
- **Member (Board of Examiners)** for setting the question paper of Bioinformatics (LSPT-409), 4th Semester, B. Sc Life Science, 2013- 2014.

Subjects Taught (in the last three years)

- **GGHP 602: Genetics and Genomics II** for Botany (H) III year
- **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 (A23-A27)

- **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 silkmoth *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 Prakashan, Delhi-9.
- Birinchi K Medhi, **Mahaswetta Saikia** 2004-2005. Use of medicinal plants in the Assamese Society: the ethnographic scenerio, Bulletin of the Department of Folklore Research, Gauhati University, Vol 6, 118-130.

Professional Development Activities/Presentations (A28-A32)

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 Programmes /Refresher Courses/ Faculty Development Programmes (A33-A37)

- Participated in Orientation Course, OR 75, organized by CPDHE, University of Delhi from Oct.5-15, Nov.9-19, 2013 and Dec.14-20, 2013
- Participated in Refresher Course, Life Science, organized by CPDHE, University of Delhi from 9 Dec-30 Dec. 2014.
- 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.

Poster Presented/Conference attended: (A38-A47)

- **Attended** 1st International Conference on Integrative Chemistry, Biology and Translational Medicine, February 26-27, 2019.
- **Participated in** Summit ISW-2020, Jan23-24, 2020
- Midgut trypsins 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
- Poster titled "**Identification of midgut serine proteinases from the larvae of *Antheraea assama* (Westwood) indicates host plant choice**", presented at Midgut Biology Meeting, Guangzhou, China, 7th–11th April, 2008.
- Poster titled "**Midgut serine proteinases from larval *Antheraea assamensis* (Helfer) reflect host plant choice**" presented at the Annual Meeting of Entomological Society of America, 9th-12th December, 2007.
- Paper titled "**Genomic sequences that contribute to polymorphic loci detected by ISSR-PCR in a population genetic study of the silkworm *Antheraea assamensis* (Helfer) from Northeast India**" presented at the Annual Meeting of Entomological Society of America, 9th-12th December, 2007.
- **Participated in** first national seminar on Muga (*Antheraea assama*) silkworm Biochemistry, Molecular Biology and Biotechnology to improve silk production, November 18-19, 2004, organized by Regional Research Laboratory, Jorhat.

Resource Person:

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

Research Experience (A48-A49)

<ul style="list-style-type: none"> ➤ 2005-2008: Technical assistant, Department of Biotechnology, Govt. of India funded project on “Assessment of genetic variability in muga silkworm (<i>Antheraea assama</i>) populations using microsatellite markers developed at CDFD, Hyderabad”. ➤ June 2009- August 2009: Project Associate “Dissection of signal transduction mechanism in <i>Plasmodium falciparum</i>”, in the Eukaryotic gene expression lab, at National Institute of Immunology, Delhi.
Other Activities (A50)
<ul style="list-style-type: none"> ➤ Manuscript Reviewer of Journal-Proceeding of National Academy of Sciences, Indian Section B: Biological Sciences for 2014, 2015, 2018.
Skills (A51)
<ul style="list-style-type: none"> ➤ 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. Mahaswetta Saikia)

Assistant Professor

Dept. of Botany, HRC, D.U