

CV

Dr. HATARKHI MWCHAHARY
Assistant Professor in Zoology
M.Sc., PhD, CSIR-UGC NET (2018,19)

CONTACT

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PERSONAL INFORMATION

FATHER'S NAME- LATE BAGRANGCHU MWCHAHARY

MOTHER'S NAME- ANITA MWCHAHARY

DOB- 21/12/1994 **NATIONALITY-** INDIAN **CASTE-** ST (P) **RELIGION-**HINDUISM

ADDRESS- VILL- DOLORPARA P.O. & P.S. – SERFANGURI PIN-783346
DIST- KOKRAJHAR STATE- ASSAM

EDUCATION

- 2019-2024: PhD in Zoology
Area of research: Sericulture, Microbiology and Molecular biology
Department of Zoology, Bodoland University
- 2015-2017: M.Sc. in Zoology (81.40%)
Specialization in Molecular biology & Immunology
Bodoland University, Kokrajhar
- 2012-2015: B.Sc. in Zoology (74%)
Science college Kokrajhar, (GU)
- 2010-2012: Higher secondary in Sciences (58%)
Assam higher secondary education council
- 2010: HSLC (50%), SEBA

ACHIEVEMENTS

- 2018, June: Joint CSIR-UGC NET
2019, December: Joint CSIR-UGC NET
2019-2024: NFST Fellow (National scholarship and fellowship for ST-students for higher studies)

TEACHING EXPERIENCE

1. Department of Zoology, Bodoland University, Kokrajhar
16th August, 2021 – 21th June, 2023

- Assisted in teaching PG classes and examinations
- Conducted laboratory sessions and tutorials
- Developed course materials and assessments

2. Bineswar Brahma Engineering College, Kokrajhar
September, 2024- December, 2024

- Worked as Biology Teacher.

Research Experience

Ph.D. Research

Department of Zoology, Bodoland University

2019 - 2024

- Focused on Sericulture, Biochemicals, Microbiology, and Molecular Biology
- Investigated host microbes inter-relationship in Ericulture.

Professional Skills / Laboratory Experience

- Teaching and Curriculum Development
- Scientific Writing and Publishing
- **Computer Skills:** MS Word, MS Excel, MS PowerPoint, Statistical Data Analysis, Bioinformatics Data Analysis Tools and Software.
- **Laboratory Skills:**
 - **Biochemistry:** Spectrophotometry, Colorimetry
 - **Molecular Biology:** PCR, Gel Electrophoresis, Gel-doc, Centrifuge, Metagenomics
 - **Microbiology:** LAF, Microscopy, Bioinformatics
 - All basic lab instruments.

Publications

Journals

1. Narzary, J., Mwchahary, H., & Narzary, I. (2019). A study on traditional fish preservation method and certain ethnomedicinal fishes of Bodo tribe of Kokrajhar District, Assam, India. *International Journal of Scientific Research in Biological Sciences*, 6(5), 67-70.
2. Mwchahary, H., & Brahma, D. (2023). Host plants induced changes in the digestive enzymes activities and growth parameters of Eri silkworm (*Samia ricini*) Larvae. *International Journal of Biosciences*, 22(2), 215-223.
3. Mwchahary, H., & Brahma, D. (2023). Microbial partnership in sericulture: A review on the gut bacteria of silkworms. *International Journal of Entomology Research*, 8(6), 44-49.

4. Mwchahary, H., Narzary, F., & Brahma, D. (2023). Relationship between proximate composition of food plants and Eri silkworm (*Samia ricini*) larvae: Implication in rearing and productivity. *Journal of Biodiversity and Environmental Sciences*, 23(2), 84-88.
5. Brahma, D., Kashyap, R.R., Mwchahary, H., & Narzary, F. (2023). Artificial diet for *Samia ricini*: Key consideration and formulation strategies-a review. *Journal of Insects as Food and Feed*, 10 (4), 637-650.
6. Mwchahary, H., Brahma, D., Das, D., & Das, S. (2023). Isolation and characterization of a potential proteinase producing *Mammaliicoccus sciuri* from the gut of Eri silkworm (*Samia ricini*). *Uttar Pradesh Journal of Zoology*, 44(22), 260-268.
7. Kashyap, R.R., Mwchahary, H., & Brahma, D. (2024). Unveiling the challenges: A study on the status of Eri culture in nearby areas of Tihu Town, Nalbari District, Assam, with reference to COVID-19 lockdown. *Journal of Entomological Research*, 48(1), 88-92.
8. Das, J.K., Barman, B., Narzary, D., Chouhan, D., Brahma, S., Kashyap, R.R., Mwchahary, H. (2024). Entomophagy- A Sustainable and Cultural Practice: Insights from Communities in Raimona National Park, BTR, Assam. *African Journal of Biological Sciences*, 6(5), 5356-5369.
9. Mwchahary, H., Brahma, D., & Brahma, S. (2026). Gut bacterial community structure and functional analysis in the silkworm *Samia ricini* reared on the secondary food plant Tapioca (*Manihot esculenta* Crantz). *Research Journal of Biotechnology*, 21 (2), 95-104.

Book Chapters

1. Brahma, D., Narzary, F., Barman, B., Chouhan, D., Mwchahary, H., & Iswary, M. (2018). Comparative study on the effect of different food plants on hemocyte count, scavenging, and enzymatic activity of *Samia ricini*. *Reflection*. ISBN: 978-93-88593-16-8.
2. Kashyap, R. R., Mwchahary, H., Narzary, F., & Brahma, D. (2021). Different food plants adopted by rearers for Ericulture in Titaguri Block of Kokrajhar District, BTR, Assam: A survey report. *Recent Trends in Basic Science Researches in North-east India*. ISBN: 978-81-953494-5-6, 55-66.
3. Mwchahary, H., & Brahma, D. (2023). Influence of different food plants on the gut α -amylase activity of Eri silkworm (*Samia ricini*). *Proceeding of National Seminar on Recent Advances in Biological Sciences: Biodiversity and Human Welfare*. ISBN: 978-81-960385-4-0, 302-309.
4. Mwchahary, H. (2020). Gut microbial endosymbiosis: An indispensable insight in host physiology. *Compendium of Research Insight of Life Science Students*. ISBN: 978-81-946500-0-3, 194.
5. Mwchahary, H., Kashyap, R.R., Brahma, D., & Brahma, S. (2024). Khari: A cultural and sustainable green degumming agent adopted by Eri farmers in Kokrajhar District, BTR, Assam. *Biological Spectrum of Northeast India, (IV)*, ISBN: 978-93-92038-83, 47-54.

Textbook

1. Kashyap, R.R., Medhi, K., & Mwchahary, H. *Diversity of Chordates*. Mrityunjay Prakashan, Panbazar Guwahati. ISBN: 978-93-90826-65-0.

Conferences and Seminars

1. Presented paper entitled “The Effect of Khari on degumming process of Eri and Muga silk” at ASTEC sponsored National Seminar, organised by SS College, Hailakandi, during 22nd and 23rd of February 2021.
2. Presented paper entitled “Diversity assessment of residential gut bacteria in Eri silkworm (*S. ricini*) larvae through 16S metagenomic approach” at National Conference on Science and Technology for Sustainable Development (STSD-2022), held on 9th-10th September, 2022 at Science College, Kokrajhar.
3. Presented paper entitled “Influence of different food plants on the gut α -amylase activity of Eri silkworm (*Samia ricini*). at National Seminar on Recent Advances in Biological Sciences, held on 18th-19th November, 2022 at Darrong College, Tezpur, Assam.
4. Presented paper entitled “Assessment of gut bacterial communities of Eri silkworm (*Samia ricini*) reared on *Manihot esculenta* Crantz at International Conference on Environment and Sustainable Development (ICESD, 2022), organised by NEHU Tura Campus, during 24-25, November, 2022.
5. Presented paper entitled “Silkworm Gut Endosymbionts - An Indispensable Treasure in Host Physiology” at Bodoland International Knowledge Festival, Bodoland University, 27th February-2nd March, 2023.
6. Presented paper entitled “Plant-based biological pest control in ericulture: A sustainable approach in Kokrajhar District” at International Conference on Emerging Frontiers in Biological Sciences (ICEFBS-2024), held on 15th-17th May, 2024 at USTM.

Additional Activities

1. Participated in the Orientation program on Assam Biodiversity Portal organized by ASHOKA TRUST FOR RESEARCH IN ECOLOGY AND THE ENVIRONMENT (ATREE).
2. Participated in Workshop on North-east India Biodiversity Portal by ATREE.
3. Completed “Two Weeks National Workshop on Research Methodology “jointly organised by Padma shri Madaram Brahma Central Library, Department of History and Department of Political Science, Bodoland University.
4. Attended International Workshop on ART OF THESIS WRITING AND ACADEMIC PUBLISHING organized by Koach Scholar in association with BML MUNJAL University.
5. Completed one month training on “Basic techniques in Microbiology” organised by Sacred heart College Tirupattur, Tamil Nadu, India In association with Microbiologists society of India and Western rio janerio state university, Brazil.
6. Participated in Metagenomics Analysis workshop in 16S rRNA Amplicon sequencing data analysis by BDG Life Sciences.
7. Completed training in Metagenomics 16s & Whole genome shotgun sequencing analysis organized by BDG life-sciences private limited, India.
8. Participated in one week workshop on Data analysis using SPSS & R Organised by Department of statistics, Gauhati University.
9. Completed hands on training on In Silico Drug Designing, organized by Department of Zoology, Bodoland University, Kokrajhar.