

Curriculum vitae

Dr. Gitalee Bhuyan

Ph.d : North Eastern Hill University

Interest of Research: Biochemistry, Molecular Biology

Joined University: 10/11/2016

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Teaching: (UG and PG classes)

- ✓ Animal Diversity
- ✓ Biochemistry
- ✓ Evolution
- ✓ Genetics
- ✓ Physiology
- ✓ Applied Zoology
- ✓ Molecular Biology
- ✓ Parasitology
- ✓ Biological techniques

Seminar/Symposia attended:

- Regional Symposium on “Current Research Thrust in Animal Sciences: Interface with End Use Researchers and Stake holders” held at North Eastern Hill University, Shillong from March 15-16, 2007.
- National conference held by The Indian Science Congress Association held at North Eastern Hill University from 3rd to 7th January’09.

Presented paper in seminar/symposia

- Presented a poster entitled “**Global Warming**” in the Annual General Meeting and Conference of the Zoological Society of Assam being held at Nalbari College, Nalbari 18th -19th January, 2004.
- ii. Presented a paper entitled ‘**Expression and upregulation of glutamine synthetase mRNA transcripts and synthesis of different amino acids in air-breathing catfish, *Heteropneustes fossilis* during exposure to high environmental ammonia**’ in the National Symposium on Biodiversity Assessment, Conservation and Value addition organized by School of Life Sciences at North-Eastern Hill University, Shillong during 22nd -23rd, April, 2010.

- iii. Presented a paper entitled '**Influence of desiccation stress on the expression of multiple glutamine synthetase genes and stimulation of amino acid synthesis in air-breathing catfish, *Heteropneustes fossilis***' in the National Symposium on Biodiversity Assessment, Conservation and Value addition organized by School of Life Sciences at North-Eastern Hill University, Shillong during 17th – 19th March, 2011.
- iv. Presented a paper entitled '**Role of glutamine synthetase and other amino acid metabolism related enzymes in the adaptation of air-breathing catfish, *Heteropneustes fossilis* in high environment ammonia**' in the National Symposium on Biodiversity Assessment, Conservation and Value addition organized by School of Life Sciences at North-Eastern Hill University, Shillong during 14th – 15th March, 2012.
- v. Presented a paper entitled '**Expression of Glutamine synthetase and synthesis of different amino acids in brain and liver tissue of air-breathing catfish, *Heteropneustes fossilis* under hyper ammonia stress**' in the National Seminar on Recent Trends of Research in Science and Technology, organized by Assam Science Society, hosted by Cotton College, Cotton College State University, Guwahati held on 29 March, 2014.
- vi. Presented a poster entitled '**A unique adaptive mechanism: nitrotyrosination of Glutamine synthetase genes under hyper-ammonia stress in air-breathing catfish, *Heteropneustes fossilis***' in the National Seminar on "Recent Advances in Biotechnological Research in North East India: Challenges and Prospects" organized by Department of Molecular Biology and Biotechnology (MBBT) Tezpur University, Napaam , Tezpur held on 27-29 November, 2014.
- vii Presented a paper entitled '**Changes in free amino acid profile in hepatic tissue of air-breathing catfish, *Heteropneustes fossilis* under desiccation stress**' in the National Seminar on "Advances in Physical and Biological Sciences" organized by Jagiroad College, Assam held on April 6th – 7th, 2014

Training/ Workshop programme attended:

- Wildlife Conservation Training on "Hoolock Gibbon Conservation Programme" organized by Aaranyak, Primate Research Centre and Assam Forest Department and supported by U.S. FISH and Wildlife Service on 2nd -3rd, October, 2004 at Gibbon Conservation Centre, Gibbon Wildlife Sanctuary, Mariani, Assam.

- “Workshop on Statistical tools”, conducted by the Department of Statistics, North-Eastern Hill University, Shillong, January 21st -26th, 2009.
- Workshop on ‘Capacity building on use of molecular markers and PCR techniques’ Sponsored by DBT, GOI held at Institutional Biotech-Hub, B.N. College of Agriculture, Biswanath Chariali, Assam during 23rd to 25th February, 2015.
- Workshop cum training programme on “Implementation of CBCS in UG courses of Dibrugarh University” organised by seminar committee in collaboration with IQAC, Madhabdev College, at Madhabdev college (University) on 24th and 25th March, 2017.
- Workshop on “Information Security Education and Awareness (ISEA)” conducted by C-DAC Silchar in collaboration with C-DAC Hyderabad at Madhabdev College (University), Lakhimpur on 28th March, 2017.
- One week online International Workshop on Biostatistics organised by Science Tech Institute, Lucknow during 21st November to 27th November, 2021.
- Participated in the one week international workshop on “Academic Research writing, copyright & plagiarism” organized by Nanda Nath Saikia College Teachers’ Unit in collaboration with Department of Botany, Nanda Nath Saikia College, Titabor, Jorhat held from 14th November to 19th November, 2022.
- Three Day International Virtual Workshop on Academic writing and research skills organized by International Research Academy of Science and Art-IRASA, Belgrade, Serbia and IRASA brunch India in collaboration with Cape Comorin Trust, India & Literary club, India from 28th to 30th June, 2023.

TRAINING/Popular talk ATTENDED AS A RESOURCE PERSON:

- “Hands-on Training on Biological Sciences” sponsored by DBT, Govt. of India held at Institutional Biotech Hub, Biswanath College, B. Chariali, Sonitpur, Assam during 12th-13th June, 2015.
- Free teaching camp and Career Counselling Program for VIII, IX and X Class students at Omeo Kumar Das High School, Bandarmari, Sonitpur, Naba Jyoti High School, Puthi mari, Sonitpur and Bihaguri HS School (for students of Srimanta SankarDev Jatiyavidyalaya, Bihaguri) on 2nd, 3rd and 4th July, 2015.
- Science teachers’ workshop for the teachers of 109 Bihpuria LAC area, organized by Madhabdev college Science forum on 19th May, 2017.

- Participated as a resource person by delivering a talk on “Science and Technology for a sustainable Future” on the occasion of National Science Day, held on 28th February, 2018 at Department of Physics, Madhabdev College (University), Narayanpur, Lakhimpur Assam.
- Participated as a resource person in the popular Science talk on “Climate change and its effects on animals” organized by Assam Science Society held on 15th February, 2023.
- Participated as a resource person in the popular talk on Adolescence to adult programs “We club” for CWSN students, organized by Axom Sarba Sikhyan Abhiyan Mission, Narayanpur, Lakhimpur, held on 8th November, 2023.
- Delivering a lecture entitled “Basic concept of Gene sequencing” during the ‘7 Days Regional Workshop on Bioinformatics & Biostatistics’ organized & sponsored by DBT-NER Advance Level Institutional Biotech Hub, Chaiduar College, Gohpur, Assam held from 25th September to 1st October, 2023.

Faculty Development Programme participated:

- Participated in the one week FDP on “Behavioral Remodeling & Use of ICT Tool for Classroom Delivery of teachers” organized by E & ICT Academy IIT Guwahati in association with Biswanath College of Agriculture, Biswanath Chariali held from 29th October to 3rd November, 2019 at Biswanath College of Agriculture, Biswanath Chariali and support from Mantra Associates.
- Participated in the one week FDP on “The Role of a Teacher in Nation Building” organized by Dept. of English, Dept. of Commerce and IQAC of Keshav Memorial institute of Commerce and Sciences of Hyderabad in collaboration with ICSSR – SRC Ministry of Human Resource Development, Delhi held from 3rd August to 9th August, 2020.
- Participated in the one week FDP on “Advance research Methodology Applicable in New Education Policy” jointly organized by Digvijay Nath Post Graduate College, Gorakhpur, UP and Science Tech Institute, Lucknow held from 22nd June to 28th June, 2022.

RESEARCH PUBLICATIONS:

FULL PAPER

- Banerjee B., **Bhuyan G.** and Saha N. (2014). Influence of environmental hypertonicity on the induction of ureogenesis and amino acid metabolism in air-breathing walking catfish (*Clarias batrachus*, Bloch). *Journal of Experimental Biology*, 52:728-738. **ISSN: 0975-1009 (Online), 0019-5189 (Print).**
- **Gitalee Bhuyan** and Nirmalendu Saha- (2014) Expression of glutamine synthetase and synthesis of different amino acids in brain and liver tissue of air-breathing catfish, (*Heteropneustes fossilis*) under hyper ammonia stress, *Proceedings of Assam Science Society*. **(ISBN: 13-978-81930041-2-8)**
- **Gitalee Bhuyan**, Amrit Paul and Nirmalendu Saha (2015) Changes in free amino acid profile in hepatic tissue of air-breathing catfish, *Heteropneustes fossilis* under desiccation stress, *Proceedings of National Seminar* on “Advances in Physical and Biological Sciences” organized by Jagiroad College, Assam held on April 6th – 7th, 2015.
- **Gitalee Bhuyan** and Nirmalendu Saha (2018) Role of free amino acids in renal tissue of air-breathing catfish, *Heteropneustes fossilis* under desiccation stress (Mud Dwelling). *Journal of Science and technology*, 6: 68-74.
- **Gitalee Bhuyan** (2018) role of glutamine synthetase enzyme in detoxification of endogenously built ammonia in *Heteropneustes fossilis* under dessication stress. *Reflection*, 104-113. **(ISBN: 978-93-88593-16-8).**
- Banerjee B., Koner D, **Bhuyan G.** and Saha, N (2018) Differential expression of multiple glutamine synthetase genes in air-breathing magur catfish, *Clarias magur* and their induction under hyper-ammonia stress. *Gene*, **671: 85-95**
- Gogoi S and **Bhuyan G** (2024) A review on Crepe ginger: A traditional medicinal plant of North East India. **Traditional medicinal plants**, vol. 8 **(ISBN 978-93-6135-231-7)**
- Gogoi S and **Bhuyan G** (2024) Nutritional and medicinal value of Asian weaver ant *Oecophylla smaragdina*: A review. **International journal of Zoological investigations**. ISSN:2454-3055.

BOOK PUBLISHED: As an editor of “*RECENT TRENDS IN LIFE SCIENCES*”. **ISBN: 978-93-95794-04-6**