

# Damanbha Lyngdoh, NET, Ph.D.

Associate Professor, Cell and Molecular Biology

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## EXPERIENCE

24.02.2026 TILL DATE

**ASSOCIATE PROFESSOR**, BHATTADEV UNIVERSITY, PATSHALA, ASSAM

05.05.2009 TILL 23.02.2026

**ASSISTANT PROFESSOR**, ST. ANTHONY'S COLLEGE, SHILLONG, MEGHALAYA

01.07.2008 TILL 30.11.2008

**PART-TIME LECTURER**, UNION CHRISTIAN COLLEGE, BARAPANI, MEGHALAYA

## EDUCATION

**2018: Ph.D.**, NORTH EASTERN HILL UNIVERSITY, SHILLONG, MEGHALAYA

Thesis: "Phylogeny and Phylogeography of *Fasciola* species Prevalent in Mammalian Livestock in Northeast India".

**2008: MSc**, NORTH EASTERN HILL UNIVERSITY, MEGHALAYA

FIRST DIVISION (65.5%), 5<sup>th</sup> Rank

**2006: BSc**, ST. ANTHONY'S COLLEGE, SHILLONG, MEGHALAYA

FIRST DIVISION (71.12%), 6<sup>th</sup> Rank

**2003: HSSLC**, ST. EDMUND'S COLLEGE, SHILLONG, MEGHALAYA

FIRST DIVISION (62.6%)

**2005: ICSE**, ST. EDMUND'S SCHOOL, SHILLONG, MEGHALAYA

FIRST DIVISION (69.16%)

## AWARDS

**2025 - 110 HOURS ZOOLOGICAL SURVEY OF INDIA HACKATHON SECOND PRIZE NATIONAL WINNERS**

Awarded by the Zoological Survey of India (ZSI), Ministry of Environment, Forest and Climate Change held at Biswa Bangla Convention Centre, Kolkata, West Bengal, India on 30.06.2025 in commemoration of 110 years of ZSI

**2023 - EUROPEAN MOLECULAR BIOLOGY ORGANISATION (EMBO) TRAVEL GRANT AWARD**

Awarded the EMBO travel grant for attending an EMBO Practical Course on Computational Molecular Evolution at the Hellenic Centre for Marine Research, Heraklion, Crete, Greece from 07-18 May 2023

**2023 - PROF. MAITREYEE DAS MEMORIAL AWARD**

Awarded the Best Oral Paper presentation at the International Seminar on Climate Change: Impact and Resilience organized by the department of Zoology, Assam Don Bosco University in collaboration with the Zoological Society of Assam, at Assam Don Bosco University, Sonapur, Assam, India on 27-28 February 2023

**2018 - EURAXESS INDIA AMBASSADOR**

Awarded the Euraxess India Ambassador at the European Research Day on 28th September 2018 organized by Euraxess India at the Embassy of the Republic of Poland.

**2017 - YOUNG SCIENTIST AWARD**

Conferred the Young Scientist Award for 2016-17 by The Indian Society for Parasitology, for best research paper presented at the Annual Congress of the Society at National Institute of Mental Health & Neuro Sciences (NIMHANS), Bangalore, Karnataka, India on the 27th April, 2017

**2016 - EURAXESS SCIENCE SLAM WINNER**

Won the Euraxess Science Slam 2016 organized by the Euraxess India (Euraxess worldwide) at Birla Science Centre in association with BITS Pilani, India Bioscience and Nuffic Neso India-Study in Holland and Finnair, and represented India at the European research area at Brussels, Belgium.

**2016 - SUDEV BHUSAN GHOSH YOUNG SCIENTIST AWARD**

Conferred the Sudev Bhusan Ghosh Young Scientist Award for 2015-16 by the Zoological Society of India, Kolkata on the 29th July, 2016 for scientific contribution on the "Phylogeography of the common liver-fluke *Fasciola* spp (Platyhelminthes:Trematoda: Fasciolidae) using nuclear and mitochondrial gene markers: Clues from Northeast India"

#### **2016 - BEST FILM AT THE FIRST INTERNATIONAL PARASITE FILM FESTIVAL**

Won the Best Film at the First International Parasite Film Festival at the XII European Multicolloquium of Parasitology, Turku University, Turku, Finland, July 2016, awarded by the Jury.

#### **2015 - NATIONAL ACADEMY OF SCIENCES, INDIA - SWARNA JAYANTI PURASKAR**

National Academy of Sciences, India - NASI Swarna Jayanti Puraskar, for best Oral Paper Presentation in Biological Sciences at the 85th Annual Session of the Academy held at KIIT University, Bhubaneswar, Orissa, India on December 2015.

#### **2014 - UNIVERSITY GRANTS COMMISSION FACULTY DEVELOPMENT PROGRAM**

Awarded the Faculty Development Program to complete Ph.D. by the UGC from 1.10.2014-1.10.2016

#### **2008 - FIRST POSITION AT THE POST-GRADUATE MSc SEMINAR COMPETITION**

1st position at the post-graduate MSc Seminar Competition organized by the Zoology department, North-Eastern Hill University, 2008

#### **2006 - RAJENDRA KUMAR SUNHERI DEVI JAIN ENDOWMENT AWARD**

Awarded the Rajendra Kumar Sunheri Devi Jain Endowment Award (Book Grant) at the XVIth Convocation of North-Eastern Hill University (NEHU) by the department of Zoology, NEHU in 2006, for highest mark secured in the undergraduate Zoology Honours programme.

#### **2006 - PROF. R. K. BHATTACHARJEE AWARD**

Awarded the Prof. R. K. Bhattacharjee Award for the highest mark secured in the undergraduate Zoology Honours programme by St. Anthony's College, Shillong, Meghalaya, India in 2006

## **PROJECTS**

### **2018-2019**

"Studies on plankton community of water bodies of East Khasi Hills District of Meghalaya", funded by Department of Biotechnology (DBT), Govt. of India (INR 8.00 lakhs)

### **2019-2022**

"Multigene molecular characterisation of Lymnaeid snail species associated with Fascioliasis in Meghalaya, Northeast India", funded by Department of Science and Technology Science and Engineering Research Board (DST-SERB), Govt. of India (INR 47.18 lakhs)

### **2023-2024**

"Documenting Unique Culinary Traditions: The Khasi People & their Unconventional Use of Parasites as a Food Source", funded by Khasi Hills Autonomous District Council (KHADC), Shillong, Govt. of Meghalaya, Govt. of India (INR 01.00 lakh)

## **PUBLICATIONS**

### **JOURNALS**

Lyngdoh D, Sharma S, Roy B, and Tandon V (2016) Animal Fascioliasis: Perspective from high altitude regions. *Veterinary Parasitology* 232:21-31. <https://doi.org/10.1016/j.vetpar.2016.11.007>

Sharma S, Lyngdoh D, Roy B, and Tandon V (2016) Molecular phylogeny of Cyclophillidea (Cestoda:Eucestoda): an in-silico analysis based on mtCOI gene. *Parasitology Research* 115:3329-35. <https://doi.org/10.1007/s00436-016-5092-4>

Sharma S, Lyngdoh D, Roy B, and Tandon V (2016) Differential diagnosis and molecular characterization of *Hymenolepis nana* and *Hymenolepis diminuta* (Cestoda: Cyclophillidea: Hymenolepididae) based on nuclear rDNA ITS2 gene marker. *Parasitology Research*, 115:4293-98. <https://doi.org/10.1007/s00436-016-5210-3>

Lyngdoh, D., Warjri, C. D., Philayung, Z. A. S., & Shabong, G. C. (2023). Morphological and molecular analysis of *Isoparorchis trisimilibutis* from catfish in Northeast India on the basis of nuclear and mitochondrial DNA. *Journal of parasitic diseases : official organ of the Indian Society for Parasitology*, 47(3), 671–676. <https://doi.org/10.1007/s12639-023-01613-7>

Lyngdoh, D., Sharma, S., Roy, B., Tandon, V., & Zas, P. (2024). Secondary Structure Analysis of *Fasciola* from Semi-wild Ruminants of Northeast India. *Acta parasitologica*, 69(1), 599–608. <https://doi.org/10.1007/s11686-023-00777-9>

Lyngdoh, D., Shabong, G. C., Warjri, C. D., & Zas, P. (2024). Documentation of *Radix acuminata* as the intermediate host for *Fasciola gigantica* in Meghalaya, Northeast India. *Annals of parasitology*, 70(3), 137–145. <https://doi.org/10.17420/ap7003.531>

Lyngdoh, D., Purkayastha, A., Thangkhiew, R. S., Hek, M. D., Warjri, C. D., & Zas, P. (2025). An antecedental approach in prevalence analysis of CBD parasites from rural population of eastern part of Meghalaya, India. *Journal of parasitic diseases : official organ of the Indian Society for Parasitology*, 49(2), 306–312. <https://doi.org/10.1007/s12639-024-01752-5>

### **BOOK CHAPTER**

Lyngdoh D, Sangma S J, Purkayastha A, et al. (2024). A Limnological assessment of various subtropical limnetic impoundments of Meghalaya, Northeast India. In: Lamare AF (ed) *Biology Frontiers*, DVS Publishers, Assam, India, pp 32-47

Lyngdoh D and ZAS P (2025) Usefulness of ITS2 secondary structure in molecular analyses within the sub-class Digenea of Platyhelminthes. In: Bokolial D (ed) *Chronicles of Biology*, DVS Publishing House, Guwahaty, Assam, India, pp 127-153

*In Press (Book Chapter)*

Nongsiej SP, Kharkongor DA, Saikia U, Lyngdoh D (2024) An extraordinary opulence: The chiropteran fauna of Meghalaya and its conservation challenges.

### POPULAR ARTICLES

Lyngdoh D (2010) *Stealth Invasion-Parasites in action*, Zoologica (ISBN 978-81-910147-2-3), Zoology Deptt. St. Anthony's College, Shillong, 2010

## INVITED TALKS/LECTURES

**2025** - Lecture on "Applications of Molecular Biology Techniques in Taxonomy" organised by Institutional Biotech Hub, Pettigrew College, Manipur on 15.05.2025

**2025** - Lecture on "Status of Fascioliasis in Northeast India: A Morphology & Molecular Approach" organised by Zoology Deptt., Dhanamanjuri University, Manipur on 13.05.2025

**2021** - Lecture on "Helminth Parasites" organized by Zoology Deptt., St. Mary's College (Autonomous), Thoothukudi, Tamil Nadu on 11.12.2021

**2020** - Lecture on "Food-borne trematodiasis with special emphasis on Fascioliasis" organized by Zoology Deptt, St. Joseph's College (Autonomous), Irinjalakuda, Kerala on 27.11.2020

**2017** - Lecture on "Do not judge a book by its cover - lessons from the liver-fluke species" at Sir Neil Chalmers Seminar Room, organized by the Department of Life Science, Natural History Museum, London, England, on 19.06.2017

**2017** - Talk on "Science Slams" at the Euraxess Info sessions organized by Research Scholars Forum, NEHU at NEHU on 08.09.2017

**2017** - Talk on "Making Research Interesting-Science Slams" organized on the National Science Day by Research Scholars Forum, NEHU at NEHU on 28.02.2017

**2012** - Lecture on "Understanding Bio-resources" at Jail Road Boys Higher Secondary School, Shillong on 9.10.2012

**2009** - Popular Science Talk at St. Mary's College, Shillong on "Chimpanzee Politics" on 20.08.2009

## PAPER PRESENTATION (NATIONAL & INTERNATIONAL)

**2025** - Oral paper presentation on "Parasites as Food: A Unique Practice in Khasi Food Culture" at the International Conference on Indigenous Knowledge Systems: Towards a Praxis, English Department, Synod College, Shillong, Meghalaya, India; 04-05 November, 2025

**2025** - Oral paper presentation on "Unravelling the dominant *Fasciola* species in Northeast India and insights into its snail hosts" at the National Conference on Bioresource Research, Management and Sustainability organized by the department of Zoology, B Borooah College (Autonomous), Guwahati, Assam, 22-23 April, 2025

**2023** - Oral paper presentation on "Genetic diversity of liver-flukes (*Fasciola* species) in Northeast India" at the International Seminar on Climate Change: Impact and Resilience organized by the department of Zoology, Assam Don Bosco University in collaboration with the Zoological Society of Assam, at Assam Don Bosco University, Sonapur, Assam, India 27-28 February, 2023

**2022** - Oral paper presentation on "ITS2 secondary structure analysis of *Fasciola* species, clues from Northeast India" at the International Conference on Biodiversity and Conservation, organized by the department of Zoology, St. Anthony's College, Shillong, 14-15 December, 2022

**2021** - Poster presentation on "Internal Transcribed Spacer 2 Secondary Structure Analysis of *Fasciola* species from Semi-wild ruminants of North East India" at the 5th International Symposium on Bioinformatics 2021 organized by APBioNet and Bezmialem Vakif University, Turkey, 15-17 December, 2021

**2021** - Poster presentation on "Internal Transcribed spacer 2 molecular morphometrics of *Fasciola* species from semi wild ruminants of the eastern Himalayan region" at the 20th InCoB, organised by APBioNet & Kunming University, China, 06-08 November, 2021

**2020** - Poster presentation on "A study of fascioliasis from semi wild ruminants from two biological hotspots of India: a molecular approach using ribosomal ITS2 and mitochondrial COI genes" at the 19th International Conference on Bioinformatics (InCoB) organized by Asia Pacific Bioinformatics Network Limited (APBioNet), Singapore, 25-29 November, 2020

**2019** - Oral paper presentation on "Molecular assessment of liver-flukes *Fasciola* species from Eastern Himalayan Region" at the International Conference on Chemical Ecology, Environment & Human Health: Emerging frontiers & Synthesis, Sikkim University, Sikkim, India, 9-10th August, 2019

- 2018** - Oral paper presentation on "Genetic variation among liver flukes across an altitudinal gradient in Northeast India" at the XIV International Congress of Parasitology (XIV ICOPA), Daegu, South Korea, 20th August, 2018
- 2017** - Oral paper presentation on "Phylogeny and phylogeography of *Fasciola* species (Platyhelminthes: Trematoda: Fasciolidae); an integrative studies using nuclear and mitochondrial gene markers" at the Annual Congress of the Society at National Institute of Mental Health and Neuro Sciences (NIMHANS), Bangalore, Karnataka, India, 27th April, 2017
- 2017** - Oral paper presentation on "Do not judge a book by its cover lessons from the common liver-fluke (Platyhelminthes: Trematoda: *Fasciola*) species" at the Young Ecologist Talk and Interact (YETI), organized at Tezpur University from 4-7th January, 2017
- 2016** - Oral paper presentation on "Phylogeography of the common liver-fluke *Fasciola* spp (Platyhelminthes: Trematoda: Fasciolidae) using nuclear & mitochondrial gene markers: Clues from Northeast India" at the 70th Annual General Meeting of the Zoological Society of India, Calcutta University, India, 29th July, 2016
- 2016** - Oral paper presentation on "Phylogeography of the common liver-fluke *Fasciola* spp (Trematoda: Digenea: Fasciolidae) based on rDNA ITS2 & mitochondrial CO1 gene markers" at the XII European Multicolloquium of Parasitology, Turku University, Turku, Finland, 20-24th July, 2016
- 2016** - Oral paper presentation on "Genetic diversity of the common liver-fluke *Fasciola* spp (Platyhelminthes: Trematoda: Fasciolidae) from Northeast India using nuclear and mitochondrial gene markers" at North Eastern Hill University, Shillong, Meghalaya, India at the Symposium on Faunal Diversity & Ecophysiology. Department Zoology, Shillong, 31st March, 2016
- 2016** - Oral paper presentation on "Phylogeography of the common liver fluke *Fasciola* spp (Trematoda: Digenea: Fasciolidae: Fasciolinae) using rDNA ITS2 gene marker" at 26th National Congress of Parasitology, Banaras Hindu University Varanasi, India, 21-23rd January, 2016
- 2015** - Oral paper presentation on "Phylogeography of the common liver-fluke and other fasciolids (Trematoda: Digenea Fasciolidae) using rDNA ITS2 gene marker" at the 85th Annual Session of the National Academy of Sciences, India at KIIT University, Bhubaneswar, India, 6-8th December, 2015

## OTHERS

**LEADERSHIP & ADMINISTRATION:** Actively serves in key institutional roles at St. Anthony's College, as the Coordinator of the Research and Development Cell, with past leadership in IQAC, student clubs, and editorial boards.

**e-CONTENT DEVELOPMENT:** Developed and published an open-access educational video called "Nud-The Mithun Slayer" exploring the intersection of folklore and science. Available as an e-resource on YouTube (2016; <https://www.youtube.com/watch?v=EnF1Xe8Sf-8>)

**ACADEMIC ORGANIZATION & MENTORSHIP:** Frequently acts as an Organizing Secretary and resource person for national scientific workshops, institutional training, and college events.

**PROFESSIONAL DEVELOPMENT:** Highly committed to upskilling, having completed numerous refresher courses, faculty development programs, and specialized training from prestigious global institutions (e.g., University of Alberta, Johns Hopkins University, Duke University, etc.).

**CREATIVE & EXTRACURRICULAR:** Possesses a rich creative background, including over a decade of choir membership and directing a recognized film ("Nud-The Mithun Slayer") that was featured in media and regional festivals.

**PROFESSIONAL MEMBERSHIP:** Life membership of The Indian Society for Parasitology.

**JOURNAL REVIEWER:** Reviewer for Springer Journals – Parasitology Research, Acta Parasitologica, Journal of Parasitic Diseases.

## DECLARATION

I hereby declare that all the information provided above is true and correct to the best of my knowledge and belief.

Place: Patshala, Assam

Date: 31.03.2026