

Madhurima Das

Registration for Doctoral Degree(PhD):

Pursuing PhD from Gauhati University in the topic “Taxonomic revision of the Genus *Hemidactylus* (Sauria: Gekkonidae)”

Date of Registration: 08/04/2011(provisional registration), 15/03/2013(Final registration)

Guide: Prof. Parimal Chandra Bhattacharjee
Dept.of Zoology, Gauhati University.

Skills and Specializations:

- Experienced in handling Molecular Biology tools and techniques: DNA isolation from various tissue sources, PCR, Purification of PCR products and sequencing.
- Analysis of sequenced data.
- Deposited sequences for 12S rRNA and RAG2 gene for *Hemidactylus sp.* in NCBI bearing accession numbers:
BankIt1688716: KJ131418, KJ131419, KJ131420, KJ131421, KJ131422, KJ131423, KJ131424, KJ131425, KJ131426, KJ131427, KJ131428, KJ131429
- Experienced in handling microbiological and Biochemical protocols and techniques

Research Experience:

1. “Techniques in Histopathology, Cytology and Haematology” at Dr. B. Barooah Cancer Institute , Guwahati in 2003 as a part of M.Sc curriculum.
2. Rufford Small Grants Foundation Project titled “Showcasing Urban Herpetofauna: A Conservational Effort through Community Participation”
3. Rufford Small Grants Foundation Project titled Herpetofauna- Urban and beyond: A conservational effort (Ongoing)

4. Mohamed Bin Zayed Species Conservation Fund - Project 12054329 on Turtle Conservation.
5. Idea Wild-Showcasing Urban Birds of Guwahati to Conserve Green Patches within the city.
6. Rufford Small Grants Foundation Project titled Urban Wildlife, Herpetofauna and Beyond: A Conservation Effort for our Fast Vanishing Neighbours. (ongoing)

Seminars and workshops attended:

- 19th All India Congress of Zoology: National seminar on Biodiversity & Human Welfare”, Gauhati University, 2008- Oral Presentation
- National Seminar, Current research in herpetology. North Orissa University, 2009- Oral presentation
- Workshop on prioritization of Amphibian and Reptilian Species for conservation breeding, North Orissa University, 2009.
- National Seminar on Biodiversity spectrum of Northeast India, Arya Vidyapeeth College, 2009- Oral Presentation
- National Symposium on Trend and Prospects of Biomedical Science and Biomedical engineering, Dept. of Biotechnology, Gauhati University, 2010
- One Day Workshop by National Institute of Food Technology and Entrepreneurship Management and IICPT at Gauhati University, 2012.
- Workshop on Capacity Building in Effective Management of Intellectual Property Rights in Biotechnology by Universities and research Institutes in Assam, 2014.
- National Seminar on “Recent Advances in Biotechnological Research in North East India: Challenges and Prospects”, 2014- Poster presentation

List of Research Publications:

1. Purkayastha, J., **Das, M.** (2009): *Hemidactylus flaviviridis* (yellow-green house gecko), from Assam, India. Herpetological Review. 40 (4): 451-452.

2. Purkayastha, J., **Das, M.**, Sengupta, S., Dutta, S.K. (2010): Notes on *Xenochrophis schnurrenbergeri* Kramer 1977 (Serpentes: Colubridae) from Assam, India with some comments on its morphology and distribution". Herpetology Notes. 3: 175-180.
3. Purkayastha, J., **Das, M.**, Bauer, A.M., Sengupta, S., Dutta, S.K. (2010): Notes on the *Hemidactylus bowringii* complex (Reptilia: Gekkonidae) in India and a change to the national herpetofaunal list. Hamadryad .Vol. 35, No. 1, pp. 20 – 27.
4. Purkayastha, J., **Das, M.** (2010): *Sphenomorphus maculatus* (Sauria: Scincidae): A Case Of Death Feigning . Herpetology Notes. 3: 285-287.
5. Purkayastha, J., **Das, M.** (2011): *Cnemaspis assamensis* (Assamese Day Gecko) Habitat. Herpetological Review. 42 (1): 93.
6. **Das, M.**, Purkayastha, J., Bauer, A.M., Sengupta, S. (2011): *Hemidactylus flaviviridis* an invasive gecko in Assam. Northwestern Journal of Zoology. Volume 7(1): 98-104.
7. Purkayastha, J., **Das, M.**, Sengupta, S. (2011): Urban herpetofauna: A case study in Guwahati city of Assam, India. Herpetology Notes 4: 195-202.
8. **Das, M.**, Brahma, R.K., Purkayastha, J. (2011): More in our mind than in their mouth? A preliminary inspection inside the oral cavity of two house Geckos: *Hemidactylus frenatus* Schlegel, 1836 and *Hemidactylus aquilonius* McMahan & Zug, 2007. Herpetology Notes (4) 303-306.
9. **Das, M.**, Purkayastha, J. (2012) An insight into hemipenial morphology of five *Hemidactylus* Oken, 1817 (Reptilia: Gekkonidae) species of Guwahati, Assam, India. Hamadryad. 36(1) 32-37
10. Borah P., Acharjee, B.K., **Das, M.**, Saikia, P.K.(2012). Diversity and distribution of Damselflies in Gauhati University campus, Assam, India . NeBIO. 3(2):33-36
11. Acharjee B.K., **Das , M.**, Borah, P., Purkayastha, J.(2012) Ichthyofaunal Diversity of Dhansiri River, Dimapur, Nagaland, India. Check List 8(6): 1163–1165.
12. **Das, M.**, Purkayastha, J., Sengupta, S. (2012): Distribution of *Hemidactylus bowringii* (Gray, 1845) in Northeastern India. Biodiversity of Northeast India. Proc. Nat. Sem, AVC 159-162
13. Purkayastha, J., Hassan, A.M., Islam, H., Das, J., Sarma, M., Basumatary,M., Sarma, N., Chatterjee,N., Singha, S., Nair,V.P., Purkayastha, A., Dutta, J., **Das,M.** (2013). Turtles of the Temple Pond of Kamakhya, Assam, India. Reptile Rap. 11–15pp

14. Purkayastha, J., **Das, M.**, Vogel, G., Bhattacharjee, P.C., Sengupta, S. (2013):
Comments on *Xenochrophis cerasogaster* (Cantor 1839) (Serpentes: Natricidae) with
remarks on its natural history and distribution 36(2): 149-156
15. Borah, M.M., Bordoloi, S., Purkayastha, J., **Das, M.**, Dubois, A., Ohler, A. (2013):
Limnonectes (Taylorana) medogensis (FeI, Ye & HuaNg, 1997) from arunachal
Pradesh (India), and on the identity of some diminutive ranoid frogs (anura:
dicroglossidae, occidozygidae) HerPetoZoa 26 (1/2): 39-48
16. **Das, M.**, Bhattacharjee, P.C., Biswa, B., Purkayastha, J. (2014).Effect of light and dark
phase on dorsum colour and pattern in *Hemidactylus* sp. of Assam. Northeast Journal of
Contemporary research. 1(1):1-7. ISSN 2349-3089
17. **Das, M.**, Bhattacharjee, P.C., Purkayastha, J. (2015). Addition of *Hemidactylus*
aquilonius (McMahan & Zug, 2007) to the state fauna for four states of Northeast
India. Hamadryad (Accepted).
18. **Abstract: Das, M.**, Bhattacharjee, P.C., Barthakur, M.G., Biswa, B., Purkayastha, J.
(2014). “Chemical compounds in pre-cloacal femoral gland secretion in two species of
Hemidactylus of Assam”. Pg:62 Proceedings of “Recent Advances in Biotechnological
Research in North East India: Challenges and Prospects”

Others:

1. Quest, a handbook on simple science experiments, Help Earth, 2007.
2. Just not burning bright (Tiger): Horizon, The Assam Tribune. 2009
3. Lizard's world, Horizon, The Assam Tribune. 2010.

Professional experience:

1. Faculty (Zoology and Botany) at Sachdeva PT College, Guwahati, from 2006-2008.
2. Faculty (Zoology and Botany) at ABLES Education, KOTA in GATE Institute, Guwahati, from 2006-2008.
3. Faculty (Biology) at Dipannita Academy, Guwahati, affiliated to AHSEC, from 2008-2010.
4. Assistant Professor, Department of Biotechnology, Asian Institute of Management and Technology, Guwahati, from 2010 to 2013.
5. JRF, IBT Hub, Arya Vidyapeeth College since 1st March, 2014 up to present.