

## CURRICULUM VITAE

### **JYOTISH SONOWAL**

Doctor of Philosophy (Ph.D.)

Assistant Professor

Centre for Biotechnology and Bioinformatics

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### **Education**

1. Ph.D. under Dr. Devid Kardong, Department of Life Sciences, Dibrugarh University, Dibrugarh (2021)
2. M.Sc. in Life Sciences, Department of Life Sciences, Dibrugarh University, Dibrugarh (2013)
3. B.Sc. in Zoology, D.H.S.K. College, Dibrugarh (2011)

### **Awards**

Awarded DST-INSPIRE Fellowship for securing 1st Rank at Post Graduation level, 2016-2021.

### **Research interest**

- Morpho- and molecular Taxonomy
- Biology of mollusc
- Mollusc toxicology
- GIS mapping
- In-vivo and In-vitro culture of mollusc
- Nutritional evaluation of animal tissue.

**Experience in Field:** Diversity assessment of freshwater mollusc, habitat parameter analysis including soil and water, GIS mapping of mollusc species, distribution pattern analysis, in-vivo and in-vitro mollusc culture protocol development, shell morphometric analysis, phylogenetic analysis, nutritional analysis of freshwater mollusc and instrumentation biology.

### **Research publication**

- **Jyotish Sonowal** and Devid Kardong (2016). Diversity of freshwater mollusc in Maguri beel- A floodplain wetland of Tinsukia district in Assam, India (2016). *International Journal of Current. Research*, 8(4): 29169-29176.
- **Jyotish Sonowal** and Devid Kardong (2020). Assessment on diversity, distribution and conservation status of Indian freshwater pond mussel *Lamellidens* spp. from upper Brahmaputra basin of Assam. *Asian Journal of Conservation Biology*, 9(1): 123-129.
- **Jyotish Sonowal** and Devid Kardong (2020). Nutritional evaluation of freshwater bivalve, *Lamellidens* spp. from the upper Brahmaputra basin, Assam with special reference to dietary essential amino acids, omega fatty acids and minerals. *Journal of Environmental Biology*, 41(4):931-941.
- Jitu Chutia, **Jyotish Sonowal**, Bhaba Kumar Pegu and Devid Kardong (2020). Evaluation of Proximate and Heavy Metals in Twelve Edible Freshwater Macroinvertebrates of Poba Reserve Forest Assam, India. *Biosciences Biotechnology Research Asia*, 17(4):819-829.
- **Jyotish Sonowal**, Pankaj Chetia and Devid Kardong (2021). Phylogenetic analysis of Indian freshwater pond mussels *Lamellidens corrianus* and *L. phenchooganjensis* (Bivalvia: Unionidae) from the upper Brahmaputra Basin of Assam, India. *Biosciences Biotechnology Research Asia*, 18(1).
- **Jyotish Sonowal**, Munmi Puzari and Devid Kardong (2020). Diversity of freshwater mollusc from Upper Brahmaputra Basin of Assam, India. *Journal of Threatened Taxa* (Accepted).

## BOOK CHAPTERS

- **Jyotish Sonowal** and Devid Kardong (2020). *Solenia soleniformis* (Benson, 1836): An endemic freshwater mollusc of Assam. In *Glimpses of Biological Research in Upper Brahmaputra Basin*. Eds: A. Kachari, S.P. Biswas and J. Sonowal. ISBN: 978 8194692 201
- **Jyotish Sonowal**, Jitu Chutia and Devid Kardong (2020). Morphometry and allometry analysis in the dry shell of freshwater bivalve *Lamellidens* spp. from Upper Brahmaputra basin, Assam. In *Demystifying Research in Applied Statistics*. ISBN: 978-81-929186-8-6

- Darathi Deori and **Jyotish Sonowal** (2020). A preliminary investigation of odonates in Kurukani Forest Village, Sivasagar district, Assam, India. In *Latest Trends in Zoology and Entomology Sciences*, vol. 12.

#### CONFERENCE/ SYMPOSIUM/SEMINAR PRESENTED

- **Jyotish Sonowal** and Devid Kardong. Freshwater Mollusc of Upper Brahmaputra Basin: Scope and Prospects. In national seminar on *Socio-economic and Scientific Development in Northeast India: Problems and Prospects* organized by Arya Vidyapeeth College, Guwahati and ICSSR-NERC on 27<sup>th</sup> and 28<sup>th</sup> October, 2017.
- **Jyotish Sonowal** and Devid Kardong. Diversity, Distribution and Evaluation of Nutritive Value of Freshwater Bivalve *Lamellidens* spp. from Upper Brahmaputra Basin of Assam, India. In *International Symposium on Biodiversity and Biobanking (Bioiverse 2018)* organized by Indian Institute of Technology Guwahati and Association for the promotion of DNA Fingerprinting and other DNA Technologies (ADNAT) held from 27-29<sup>th</sup> January, 2018.
- **Jyotish Sonowal** and Devid Kardong. Conservation state of Unique and Endemic Freshwater mollusc of Upper Brahmaputra Basin, Assam, India. In national seminar on *Biodiversity and Wildlife Conservation Biology (BWCB-2018)* organized by Department of Zoology, Digboi College in collaboration with Aaranyak held on 24<sup>th</sup> and 25<sup>th</sup> February, 2018.
- **Jyotish Sonowal** and Devid Kardong. Nutritional evaluation of freshwater bivalve, *Lamellidens* spp. from the Upper Brahmaputra basin, Assam with special reference to dietary essential amino acids, omega fatty acids and minerals. In *International Conference on Recent Advances in Animal Sciences (ICRAAS-2019)* organized by Pachunga University College, Aizwal, Mizoram held from 6<sup>th</sup>–8<sup>th</sup> November, 2019. **Awarded with 3<sup>rd</sup> Best Oral Presentation.**
- **Jyotish Sonowal** and Devid Kardong. Freshwater Bivalve *Lamellidens* spp.: An Excellent Source of Vitamin B<sub>2</sub> and B<sub>12</sub>. In *National Seminar on Trends in Biological Sciences and Sustainable Development* organized by Department of Life Sciences, Dibrugarh University on 5<sup>th</sup> and 6<sup>th</sup> February, 2020.
- **Jyotish Sonowal** and Devid Kardong. Shell variation in Indian freshwater pond mussel *Lamellidens* (Bivalvia: Unionidae). In *International Conference on Recent Trends in*

Theoretical and Applied Statistics (RTTAS) held during 18-20 September, 2020 on online mode organized by Department of Statistics, Dibrugarh University, Assam.

### **WORKSHOP/ TRAINING ATTENDED**

- Attended a workshop on “**Biochemistry and Molecular Biology Techniques**” sponsored by DBT, Govt. Of India and organized by Institutional Biotech Hub, Centre for Studies IN Biotechnology Dibrugarh University held on 19<sup>th</sup> –21<sup>st</sup> March, 2014.
- Attended a workshop on “**Statistical and Computing Methods for Life Sciences Data Analysis**” sponsored by Indian Statistical Institute, at Department of Anthropology, Dibrugarh University held on 8<sup>th</sup> –12<sup>th</sup> February, 2016.
- Attended a national workshop on “**Research Paper and Project Proposal Writing**” organized by Dibrugarh University Research Scholars’ Association (DURSA) held on 24<sup>th</sup> and 25<sup>th</sup> October, 2016.
- Attended a workshop on “**Capacity building in grant writing skills and effective management of Intellectual Property Rights/(IPR) in Biotechnologies by universities and research institutions in the North East Region**” organized by Biotech Consortium India Limited(BCIL), New Delhi at Dibrugarh University held on 16<sup>th</sup> -18<sup>th</sup> November, 2016.