

Curriculum Vitae

Name: Dr. Mostaque Ahmed Laskar

Father's Name: (L) Md.Rehan .Ahmed Laskar

Date of Birth: Dec 24, 1967

Gender: Male

Nationality: Indian

Present Address: Dept. of Biotechnology, St. Anthony's College,
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Present Position: Associate Professor, Dept. of Biotechnology, St. Anthony's College, Shillong

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Educational Qualifications:

Degree	University	Year of passing	Grade
B.Sc. (Ag)	*APAU, Hyderabad	1989	8.6 (OGPA)
M.Sc. (Ag. Biotech)	AAU, Jorhat	1992	8.06 (CGPA)
Ph.D (Ag. Biotech)	AAU, Jorhat	2001	-

*Renamed as Prof. Jayashankar Agril. University, Rajendranagar, Hyderabad

Fellowships Received:

- North Eastern Council (Govt. of India) Fellowship for B.Sc. (Ag) Course.
- Department of Biotechnology (Govt. of India) Fellowship for M.Sc. (Ag) Course.
- Council for Scientific and Industrial Research (Govt. of India) Fellowship for Ph.D.
- Department of Biotechnology (Govt. of India) Overseas Associateship.

Proficiency Tests Passed:

- Council for Scientific and Industrial Research-University Grants Commission National Eligibility Test for Lecturers in 1993.
- Indian Council of Agricultural National Eligibility Test for Lecturers in 1997.

Work Experience:

A: Teaching

Name of Post Held	Duration	Nature of Duties
Lecturer, Dept. of Biotech, St. Anthony's College, Shillong	1.5.1998 - 30. 4.2002	Conducted theory and practical classes in Immunology, Molecular Biology and Plant tissue culture for B.Sc. Biotech (H) students And for B.Sc Biochem (H) students from 2000.
Lecturer (Senior Grade),	1.5.2002 – 30.4.2007	Have been teaching B.Sc Biotech, B.Sc Biochem students and MSc Biotech students (from 2005) in the above areas
Lecturer (Selection Grade)	1.5.2007 – 1.5.2010	
Assoc. Professor	1.5.2010 – till date	

B: Research Experience

Title/Area of Research	Completed/On-going
Tissue Culture Studies for Haploid Plant Production in Tea (<i>Camellia sinensis</i> (L) O. Kuntze).	P.G. dissertation work (Completed)
Application of Tissue Culture and Biochemical Techniques for Improvement of Tea (<i>Camellia sinensis</i> (L) O. Kuntze).	Ph.D. Thesis Work (completed)
Development of <i>in vitro</i> techniques for <i>Potentilla fulgens</i> (medicinal plant) and <i>Citrus indica</i> (endangered plant).	Completed
Studies on microbicidal effects of plant secondary metabolites and of lab-synthesized compounds.	Completed
Development of ISSR markers on <i>Neolissochilus hexagonolepis</i> (a game fish), <i>Puntius sophore</i> & <i>Rasbora daniconius</i> (a food fish), <i>Curcuma caesia</i> (a medicinal plant) and <i>Citrus indica</i> (an endangered & primitive plant) <i>Bambusa tulda</i> (commercially important plant) and <i>Zingiber officinalis</i> (medicinal and culinary plant)	Completed
Vitral Screening of Novel Aminopyrimidines and of Anthraquinones for Lead Identification	Completed
Assessment of Population Genetic Structure of Chocolate Mahseer (<i>Neolissochilus hexagonolepis</i>) in Selected River Bodies of Meghalaya	Completed
DBT-Twining Project: Development and characterization of microsatellite markers and assessment of genetic diversity of <i>Schistura sikmaiensis</i> from North East India.	Completed
DBT-Twining Project : Molecular and Genetic Characterization of selected important ornamental Fishes of North East India	On-going
Molecular Phylogenetic Studies of Amphibians of North-East India (in collaboration with ZSI, Regional Office, Shllong	On-going

C. Projects Associated with:

- Served as Plant Tissue Culture Consultant in North Eastern Biodiversity Research Cell (Project Sponsored by the North Eastern Council, GOI) from 2000 to 2004.
- Coordinator of Bioinformatics Infrastructure and DBT e-Journal (DeLCON) Facilities at St. Anthony's College, Shillong (DBT sponsored projects).

D. Membership of Professional Bodies:

Life member of: (i) ADNAT, CCMB, Hyderabad. (ii) Society of Biological Chemists, IISC, Bangalore.

E. Served as Resource Person in:

- Hands-on training on the Basic PCR reaction. Organized jointly Botany Dept. and Institutional Biotech Hub, SAC under the aegis of the DBT funded workshop on Value Addition to Rich Bioresources of North East Region' on 15th and 16th September, 2019
- Hands-on training on Use of bioinformatics tools for analyses of molecular marker data. Organized by DBT-BIF, SAC from 4th – 9th, April, 2019.
- Summer training on microsatellite sequence mining from partial genome assembly and wet lab validation of results. Organized by DBT-BIF, SAC for 3rd Semester MSc Bioinformatics students of Pondicherry University, 16 – 20 May, 2016.
- Hands on training on Molecular phylogenetic analysis with special reference to RAPD and ISSR Markers. Organized by DBT-BIF, AAU, Khanapara Campus on 19th March, 2015.
- Workshop on Analytical Techniques in Biotechnology organized by Biotech HUB, SAC, Shillong, sponsored by DBT, from 27th to 29th March, 2014.
- Workshop on Biological Techniques and Tools, organized by Biotech and Biochem Depts. SAC, Shillong, from 19th to 26th July, 2013.
- Hands on Training on Introduction to Computational Biology and Bioinformatics organized by BIF, College of Veterinary Science, Khanapara, Guwahati, (Sponsored by DBT) from February 22 to 25, 2010.
- Training course in Bioinformatics: Recent Trends in Biological Sequence Analysis organized by BIF, Gauhati University, Guwahati (Sponsored by DBT) from January 27 to 29, 2010.
- Served as Resource Person the Training Course in Bioinformatics for College Teachers and Research Scholars organized by BIF Cotton College, Guwahati (sponsored by DBT) from February 11 to 12, 2009.
- Short Term training course on Basic Bioinformatics organized by BIF, NEIST, Jorhat (Sponsored by DBT) from March 24 to 26, 2009.
- Hands on Training in Artificial Seed Production and in Anther and Microspore Culture. Short Term Training on Tissue Culture and Biochemical Techniques for Crop Improvement with Special Reference to Citrus and Tea. Organized by Assam Agricultural University,

Jorhat and Tocklai Experimental Station, Jorhat, during November 23 -25, 1995 Sponsored by DBT, GOI, New Delhi.

**F. Served as a reviewer for Elsevier Journal and Indian Association of Science Journals.
Editorial Board Member of Asian Journal of Conservation Biology**
(<https://www.ajcb.in/>)

G. Seminars and Workshops attended/organized:

- Scope of Bioinformatics, introduction to databases and BLAST. Sponsored by DBT, GOI 17th, 18th, 23rd and 24th October, 2019.
- Hand-on training on Basic Concepts of Bioinformatics. Sponsored by DBT, GOI. On 9th – 10th, April, 2019.
- Research symposium of Plant Pathology, Physiology, Weed Science of Graduate Student Organization at Crop and Soil Environmental Sciences Dept., Virginia Tech, USA, 25th October, 2012.
- Annual meeting/ conference of Crop Science Society of America at Duke Energy Centre, Cincinnati, USA, 21st – 24th October, 2012.
- Oomycete Bioinformatics Workshop, Virginia Bioinformatics Institute (VBI), Virginia Tech, USA, 6th & 7th July, 2012.
- International Conference on Emerging Trends and Applications in Computer Science, organized by Computer Science Department, SAC, Shillong, sponsored by IEEE, UGC & CSIR.
- National Workshop cum Training on Bioinformatics, held during June 24-25, 1994 at Assam Agricultural University, Jorhat and sponsored by DBT, GOI, N. Delhi.
- National Seminar on Strategies for Agricultural Research in the North East held during November 10-12, 1999 and organized by ICAR Research Complex for NEH Region, Umiam, Meghalaya.
- Entrepreneurial Orientation Programme for College and University Teachers, held during February 3 to January 7, 2000 at Indian Institute of Entrepreneurship, Guwahati.
- Entrepreneurs' Meet on Commercialization of Biotechnology held on March 24-25, 2002 and organized by NEDFi, Guwahati and BCIL, N. Delhi.
- National Roving Seminar on Patenting in Biotechnology held on October 26, 2005 and Organized by Bioinformatics Centre, NEHU, Shillong.
- Served as Member of Organizing Committee and as an Editor of the Proceedings of the National Seminar on Intellectual Property Rights, held during 6th to 8th October, 2004 at St. Anthony's College, Shillong and Sponsored by NEC, Shillong.

H. Publications:

Sharma L, Shahnawaz A, Barat A, Kumar R, Pande V, **Laskar, M. A**, Sahoo, P.K., Sumer S (2019). Molecular identification and genetic diversity analysis of Chocolate mahseer (*Neolissochilus hexagonolepis*) populations of Northeast India, using mitochondrial DNA markers. *Mitochondrial DNA Part A*. **30: 397 – 406.** (doi: 10.1080/24701394.2018.1526929)

Siva C, ·Kumar R, ·Sharma L, **Laskar M.A.**, ·Sumer S. ·Barat A, ·Sahoo P.K. (2018). The complete mitochondrial genome of a stream loach (*Schistura reticulofasciata*) and its phylogeny. *Conservation Genetic Resources*. **10: 829 – 832.** (doi: <https://doi.org/10.1007/s12686-017-0941-8>.)

Barman P., Laskar M.A. (2016) DNA barcoding in Plant. In: P.C. Deka (Ed.), *Biotechnological Tools for Genetic Resources* (pp. 59 – 74). Daya Publishing House, New Delhi

Redekar NR, Clevinger EM, **Laskar MA**, Biyashev RM, Jensen RV, Jeong SC, Tolin SA, Saghai Maroof MA. (2016) Candidate gene sequence analyses towards identifying Rsv3-type resistance to Soyabean mosaic virus.

Susngi A., Laskar M.A. (2015) A study on genetic diversity of medicinal plant *Curcuma caesia* Roxb. of Meghalaya using ISSR markers indicates good environmental adaptability of the species. In H. Choudhary (Ed.) *Biology, Biotechnology and sustainable development* pp. 208 – 216

Baruah C, **Laskar MA**, Sharma DK, Inter-simple sequence repeat (ISSR) polymorphism-based analysis of diversity in freshwater turtle genus *Pangshura*. (2013) *African Journal of Biotechnology*, **12**: 238-248.

Konwarh R, Gogoi B, Philip R, **Laskar MA**, Karak N. (2011). . Biomimetic preparation of Polymer-supported free radical scavenging, cytocompatible and antimicrobial “green” silver nanoparticles using aqueous extract of *Citrus sinensis* peel. *Colloids and Surfaces B: Biointerfaces*, **84** 338 – 345. Impact Factor: 2.78

Devi AS, Baruah RR, **Laskar MA**, Vishwakarma JN. 2011. Ach inhibiting properties of 1,2,3,4-tetrahydropyrimidines: synthesis and *in silico* studies. *Chemical Sciences Journal*,:CSJ-39.

Marak C, Laskar M.A. (2011). Analysis of phenetic relationship between *Citrus indica* Tanaka and a few commercially important citrus species by ISSR markers, *Scientia Horticulturae*, **124** (2010) 345 – 348. Impact Factor: 1.045

Vishwakarma, J.N., Dutta M.C., Chandra K., Das B., **Laskar M.A.** (2009) Nongkhlaw RL, Synthesis and anti-bacterial activities of novel 5-isonicotinoyl-1,2,3,4-tetrahydropyrimidines and bis-(5-isonicotinoyl-1,2,3,4-tetrahydropyrimidines), *ARKIVOC*, **xiii** 131 – 141. Impact Factor: 1.377

Laskar M.A., Hynniewta M., Rao C.S. (2009) . *In vitro* propagation of *Citrus indica* Tanaka - An endangered progenitor species, Indian J. Biotech, **8**: 311 – 316. Impact Factor: 0.385

Laskar M .A., Lyngdoh J .P., Syiem D. (2006). Induction of Callus in *Panax assamica* (L), J. Appl. Biosciences. Biotech, **2**: 63-66.

Laskar M. A., Lyngdoh J .P., Buam J J, Syiem D. (2005). Plantlet regeneration via adventitious shoot bud proliferation from leaf explants in *Potentilla fulgens* Wall. ex Hook- A plant possessing hypoglycemic activity, Indian J. Biotech, **4** 257-260. Impact Factor: 0.385

Laskar M.A., Das S.C., Deka PC. 1993. Tissue Culture of Tea: Anther Culture for Haploid Plant Production, in Proc Intl Symp Tea Science and Human Health, Tea Research Association, Calcutta, India, 11-14 January,

Articles in Press:

Sharma A., Siva C. Ali S., Sahoo P., Laskar M.A., Nath R., Sarma D. Characterization of the Complete Mitochondrial Genome of the Medicinal Fish, Cyprinion semiplotum (Assamese Kingfish): Structural Features and Phylogenetic Implications. **Submitted to International Journal of Macromolecules (Elsevier Journal).**

Rupak R., Goswami M., Shiva C.Kharbuli S, Rabindra R., Laskar, M.A, Khyriem V. Cyprinid Fish Resources: An Overview on the Present Status in Meghalaya, India. **Submitted to Journal of Applied Ichthyology (Wiley Journal).**

Sharma A.,**Laskar M.A.**, Sahoo P.,Barat A. Siva C. (2019) Characterization of complete mitogenome sequence of *Schistura sikmaiensis* (Nemacheileidae) confirmed the genus to be polyphyletic. **Submitted to Conservation Genetic Resources (Springer Journal).**

I. Posters Presented:

Redekar N.R., Biyashev R.M., Laskar M.A., Cromier G., Jensen R.V., Jeong S., Tolin S., Saghai-Maroo M.A. (2014). Comparative sequence analysis to identify Rsv3gene encoding resistance to soybean mosaic virus. In Proc. of the annual meeting of crop science society of America (Nov 2-5, 2014). Long Beach, CA, USA.

McKinnel M. Lyngwi, R.N. Bhuyan & M.A. Laskar. Development of ISSR markers in *Garra* sp.: an ornamental species of Meghalaya in Proc Natl Seminar Recent Advances and Rebuilding of Fish and Fisheries in N.E. India (St. Anthony's College, Shillong, 22-23 August, 2000) 54-56.

Kaushal Yadav, Debajit Sarma, M.A. Laskar. Development of ISSR markers in threatened economically important fish – Chocolate masheer (*Neolissochilus hexagonolepis*) of Meghalaya in Proc Natl Seminar Recent Advances and Rebuilding of Fish and Fisheries in N.E. India (St. Anthony's College, Shillong, 22-23 August, 2000) 57-58

Revinus Nongkynrih, R.N. Bhuyan, M.A. Laskar. Evaluation of nutrient content of *Garra lissorhynchus*: A native fish species of Meghalaya. in Proc Natl Seminar Recent Advances and

Rebuilding of Fish and Fisheries in N.E. India (St. Anthony's College, Shillong, 22-23 August, 2000) 59-60.

Laskar MA, Bhowmick SS, Medhi S & Joshi SR, A Low Cost Micropropagation Technique for *Begonia rex* (L), in Proc Natl Semin Strategies for Agricultural Research in the North East (ICAR Research Complex for NEH Region, Umiam, Meghalaya) 1999, 177.

Laskar MA, Das G, Joshi SR, Tissue Culture of *Panax pseudoginseng*: A Preliminary Study, in Proc Natl Semin Strategies for Agricultural Research in the North East (ICAR Research Complex for NEH Region, Umiam, Meghalaya) 1999, 177.

Referees:

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Declaration

The information furnished above is correct to the best of my knowledge and no attempt has been made by me to hide or distort facts.

Mostaque Ahmed Laskar

Place: Shillong,
Date: 19.11.2019