

RIKRAJ LOYING

Assistant Professor, M.Sc, Ph.D (Thesis Submitted)

Rabindranath Tagore University, Hojai
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OBJECTIVE CAREER

To prove my excellence and give the out best in my professional career by adopting me to the changing atmosphere, to inculcate the values of dignity of labour among my fellow-beings and climb-up the ladders of success through the dint of hard work and perseverance.

PAST STANDING

PhD (Thesis Submitted) Aug, 2021-Jun, 2026
Academy of Scientific and Innovative Research Uttar Pradesh, India
Topic: Inflammation and Inflammatory Pathophysiology: Efficacy, Bioactives, and Mechanistic Insight of medicinal plants

- Isolation of genomic and plasmid DNA, RNA & Protein from mammalian culture cells, mammalian tissues, plants as well as from bacteria
- Protein Expression Profiling by using RT-PCR, Real Time PCR
- Molecular biology techniques – ELISA, Gel Electrophoresis, SDS PAGE
- Bacterial culture, Bacterial transformation, and transfection in mammalian cells
- Handling and dissection of animal models- albino Mice, Rat, Hamster.

PROFESSIONAL CREDENTIAL

Research Assistant Oct, 2020-Jul, 2021
ICMR-Regional Medical Research Centre Dibrugarh, Assam, India
Topic: A prospective facility-based study of arthropod borne viral and bacterial aetiologies of non-malarial fever cases in Tripura

- Epidemiological studies of viral and bacterial diseases
- Serological studies of JE, Dengue, Chikungunya, West Nile, Scrub typhus, Leptospirosis.

Project Assistant (Level-II) Oct, 2017-Mar, 2020
CSIR- North East Institute of Science and Technology Jorhat, Assam, India
Topic: CSIR-Aroma Mission

- Extraction, polarity gradient fractionation of various parts plant
- Essential oil extraction using Clevenger apparatus and preliminary Phyto-constituents analysis

BITP Trainee Oct, 2016- Apr, 2017
Skand Life Sciences Pvt Ltd Bangaluru, Karnataka, India
Topic: Pharmacological characterization of *Clerodendrum infortunatum* from Assam for anticancer, anti-diabetic, antioxidant and antimicrobial activities

- Hands on training of molecular biology techniques- ELISA, Gel electrophoresis, PCR.

ACADEMIC QUALIFICATION

M.Sc., Pharmaceutical Biotechnology 2014-2016
Dibrugarh University Dibrugarh, Assam, India
Dissertation: Phytochemical screening of *Achyranthes splendens* with references to antioxidant & antimicrobial activities

B.Sc. (Zoology Honor) 2011-2014
DKD College under Dibrugarh University Golaghat, Assam, India
Dissertation: Effect of Tetrodotoxin extracted from *Tetrodon cutcutia* on Cockroach

AWARDS

- **SFE-Young Ethnopharmacologist Award- 2023** awarded by **International Bioresource Conclave & Ethnopharmacology Congress** held at Imphal, India during February 24-26, 2023.
- **Junior Research Fellowship** for pursue PhD course funded by **University Grant Commission**, Government of India.
- **Qualified for Lectureship** conducted by **University Grant Commission**, Government of India.

SCIENTIFIC SOCIETY MEMBER

- Society for Ethnopharmacology (SFE-INDIA)
- Laboratory Animal Science Association of India (LASAI)

PUBLICATIONS

- H. Barman, M.E. Kabir, A. Borah, N. U. Afzal, **Loving, L.**, *et al.* Therapeutic Uses of Dietary Organosulfur Compounds in Response to Viral (SARS-CoV-2)/Bacterial Infection, Inflammation, Cancer, Oxidative Stress, Cardiovascular Diseases, Obesity, and Diabetes. *Chemistry & Biodiversity* (2025)
 - A Ibeyaima, **Loving, R.**, P. Manna. Prediction of the toxicity, bioavailability, pharmacokinetics, and Lipinski rule of 5 in the antidiabetic compounds: a computer based investigation. *In Silico Research in Biomedicine* (2025)
 - **Loving, R.**, Lamyamba, L., Borah, A. *et al.* Endotoxin (lipopolysaccharide)-induced inflammation in albino rat and macrophages (RAW 264.7): *Piper mullesua* leaf extract as promising therapeutic against inflammatory pathophysiology via SOCS1 activation and phospho-NF- κ B/JAK1/STAT1 inhibition. *Inflammopharmacol* (2025).
 - Sharmah, B., **Loving, R.**, *et al.* Glucose-Responsive Insulin Delivery via Surface-Functionalized Titanium Dioxide Nanoparticles: A Promising Theragnostic against Diabetes Mellitus. *ACS Appl Bio Mater*, (2024)
 - **Loving, R.**, Sharmah, B., Barman, *et al.* Anti-inflammatory potential of *Piper betleoides* C. DC., a promising *Piper* species of Northeast India: *in vitro* and *in vivo* evidence and mechanistic insight. *Inflammopharmacol* (2024)
 - J.K. Chamuah..., **R. Loving**, *et al.* In vitro assessment of Ethanolic extracts from specific herbs on controlling aquatic leech (*Tyrannobdella rex*) and land leech (*Philobdella* sp.) infestation in Mithun (*Bos frontalis*). *Vet Parasitol Reg Stud Reports* (2024)
 - Sharmah, B., **Loving, R.**, *et al.* Surface-Functionalized Nanoceria: Dual Action in Diabetes Management via Glucose-Responsive Insulin Delivery and Oxidative Stress Mitigation. *ACS Biomater Sci Eng* (2024).
 - **Loving, R.**, Kalita, J., Manna, P. Rice-Based Alcoholic Fermented Beverages of North-East India: Insight into Ethnic Preparation, Microbial Intervention, Ethnobotany, and Health Benefits. *J Food Biochem* (2024)
 - **Loving, R.**, Gogoi, R., & Lal, M. Chemical composition, biological activities and cytotoxic effects of volatile oils extracted from leaves and rhizomes of *Etlingera elatior* (Jack) RM Sm. as a potential plant for industrial value. *J Environ Biol* (2021)
 - Gogoi, R., **Loving R.**, Sarma, N. *et al.* Comparative in-vitro biological activities of methyl eugenol rich *Cymbopogon khasianus* Hack., leaf essential oil with pure methyl eugenol compound. *Curr Pharm Biotechnol* (2020)
 - **Loving R.**, Gogoi, R., Sarma, N. *et al.* Chemical Compositions, In-vitro Antioxidant, Antimicrobial, Anti-inflammatory and Cytotoxic Activities of Essential Oil of *Acorus calamus* L. Rhizome from North-East India. *J Essent Oil-Bear Plants* (2019)
 - Gogoi, R., Sarma, N., **Loving, R.**, *et al.* A comparative analysis of bark and leaf essential oil and their chemical composition, antioxidant, anti-inflammatory, antimicrobial activities, and genotoxic potential of North East Indian *Cinnamomum zeylanicum* Blume. *Nat Prod J* (2019)
 - Borah, A., Paw, M., Gogoi, R., **Loving, R.**, *et al.* Chemical composition, antioxidant, anti-inflammatory, anti-microbial and *in-vitro* cytotoxic efficacy of essential oil of *Curcuma caesia* Roxb. Leaves: An endangered medicinal plant of North East India. *Ind Crops Prod* (2019)
 - Gogoi, R., **Loving, R.**, Sarma, N. *et al.* A comparative study on antioxidant, anti-inflammatory, genotoxicity, anti-microbial activities and chemical composition of fruit and leaf essential oils of *Litsea cubeba* Pers from North-east India. *Ind Crops Prod* (2018)
- Google scholar link: <https://scholar.google.com/citations?user=oWlwJ50AAAAJ&hl=en>

DECLARATION: I do hereby declare that all the statements in this curriculum vitae are true, correct, and complete to the best of my knowledge and belief and nothing been concealed.

Date: 07/06/2026

Place: Hojai, Assam, India

Rikraj Loving

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