



Dr. SUKLANG KHARNAIOR

ACADEMIC QUALIFICATIONS:

PhD: Completed

TITLE OF THESIS: Investigation On The Propagation of Agarwood (*Aquilaria malaccensis*) For Its Sustainability Through Novel Approaches

University: Assam Don Bosco University

MSc: Biotechnology

University: Assam Don Bosco University

BSc: Biotechnology

University: Sikkim Manipal University

PUBLICATIONS:

1. Kharnaior, S., & Thomas, S. C. (2020). Preliminary screening of *Houttuynia cordata* for biological potential and chemical components using TLC and GC–MS analysis. *Journal of Plant Biochemistry and Biotechnology*, 29, 539-552. 2.
2. Mochahari, D., Kharnaior, S., Sen, S., & Thomas, S. C. (2020). Isolation of endophytic fungi from juvenile *Aquilaria malaccensis* and their antimicrobial properties. *Journal of Tropical Forest Science*, 32(1), 97-104. 3.
3. Kharnaior, S., & Thomas, S. C. (2021). A review of *Aquilaria malaccensis* propagation and production of the secondary metabolite from callus. *Journal of Natural Resources*, 4(4), 85-94. 4.

4. Thomas, S. C., & Kharnaioir, S. (2023). Biochemical composition and bioactivity analysis of sour honey samples from Nagaland, Northeast India. *Journal of Apicultural Research*, 62(5), 1215-1224. 5.
5. Kharnaioir, S., & Thomas, S. C. (2023). The Effect of *Aquilaria malaccensis* Seed Primed with Gibberellic Acid and Indole Butyric Acid. *Journal of Tropical Forest Science*, 35(4), 367-376. 6.
6. Suklang Kharnaioir and Shiny C. Thomas (2024). Preparation of an Encapsulated Seed for the Preservation of *Aquilaria malaccensis* Seed. *The Indian Forester*, 150 (2). 10.36808/if/2024/v150i2/169802.

SEMINARS AND WORKSHOPS ATTENDED:

1. Training on Basic techniques in genomics & Bioinformatics” under the sponsorship from the Department of Biotechnology, Government of India, held from 17th to 21st November 2014, at St. Edmund College Shillong, Meghalaya- 793003.
2. Participation in the workshop entitled Animal Call Culture Technology from 14th to 16th November 2016, conducted by the Institution Biotech Hub of St. Anthony’s College Shillong, Meghalaya□793001
3. Preserving Biodiversity and Livelihood Through Traditional Agroforestry in Northeast India on 25th and 26th September, 2018 Guwahati, jointly Organised by Bosco Reach Out and GIZ (Gesellschaft für Internationale Zusammenarbeit).
4. Participated in AWSAR (Augmenting Writing Skills for Articulating Research) Workshop on poplar Science Writing on 9th July 2019 at Guwahati University, Assam. The Workshop was organized by the Department of Science and Tehnology (DST), Govt. of India and Vigyan Prasara (VP) in collaboration with Assam Science Technology & Environment Council (ASTEC).

PRESENTATIONS IN SEMINARS, WORKSHOPS, CONFERENCES AND OTHERS:

1. “Screening of *Houttuynia cordata* for biological potential and chemical components” in the 4th international Symposium on Minor Fruits, Medicinal & Aromatic Plants (ISMFM & AP), Central Agriculture University, Arunachal Pradesh, Pasighat- 791102, India. (Poster presentation 2nd position).
2. “Bioactive compounds from *Ficus hederaceae* found in Northeast India” in the National Seminar on “Recent Discoveries in Medicinal Aromatic Plants Research and aromatic plants research and its sustainable development in Northeast India. (Oral)

3. “A Review on *Aquilaria malaccensis* Propagation and Production of Secondary Metabolite from Callus” in Summer Field School [Online] Mountain Ecosystems and Resource Management 19-28 September 2021. (Oral)
4. Technical resource person during one-day seminar cum workshop on igniting young minds 2.0 organized by the Department of Biosciences, Assam Don Bosco University and supported by the Department of Science and Technology, Govt. of India on 21 June 2022 on the theme Basic techniques in Biological Science.
5. Resource person in “CME FOR TEACHERS OF DRAVYAGUNA” on 2nd December to 7th December 2024, funded by Ministry of AYUSH, Govt. of India Coordinated by - RAV, New Delhi, Govt. of India, organized by North Eastern Institute of Ayurveda & Homeopathy Mawdiangdiang, Shillong.

PATENT

1. Patent number: 2021102182
2. Title of invention: TLC AND GC–MS ANALYSIS METHOD OF SCREENING OF HOUTTUYNIA CORDATA.

PAPER REVIEWING

1. Costa de Menezes, M., Cesário, B. C., Félix, N. S., Silva, R. L., Sousa, D. R., Silva, F. H., ... & Batista, J. S. (2021). In vivo photoprotective potential evaluation and in vitro genoprotective of red propolis from *Apis mellifera* in Rio Grande do Norte (semiarid region), Brazil. *Journal of Apicultural Research*, 1-7.. doi.org/10.1080/00218839.2021.1969159
2. Wang, Z., Cui, Z., Li, X., Guan, Z., Huang, X., Zu, T., & Zhang, J. (2023). Simultaneous determination of trigonelline and caffeine and its application in the identification of Chinese Citrus, Coffee and Rape honey. *Journal of Food Measurement and Characterization*, 1-18. dx.doi.org/10.1007/s11694-023-02242-7
3. Yan, K., Zhang, J., Cai, Y., Cao, G., Meng, L., Soaud, S. A., ... & El-Sappah, A. H. (2023). Comparative analysis of endophytic fungal communities in bamboo species *Phyllostachys edulis*, *Bambusa rigida*, and *Pleioblastus amarus*. *Scientific Reports*, 13(1), 20910. doi.org/10.1038/s41598-023-48187-1.