

Kavindu Munugoda (PhD)

Pharmacognosy | Phytochemistry | Ethnobotany | Chemical Ecology

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[in](#) LinkedIn [🔗](#) Google Scholar [id](#) ORCID iD [R⁶](#) ResearchGate [🐙](#) GitHub

Summary

Innovative researcher and educator with 7+ years of experience and a Ph.D. in sustainable bio-pesticide development, specializing in aromatic plants, phytochemistry, and mosquito repellents. Experienced in environmental consultancy and passionate about fostering the next generation of scientists through engaging teaching methods.

Skills

Analytical Techniques

GC-MS, Micro-Kjeldahl, Hydro
Distillation, Soxhlet
Extraction, UV Spectroscopy

Molecular Biology

CTAB, Genomic Library, Gel
Electrophoresis, Gene
Annotation, PCR

Microbiology

Subculture, Colony
Identification, Isolation, Media
Preparation, Fermentation

Data Analysis and Software

Python & R Languages,
IBM SPSS,
Minitab,
OriginPro

Education

PhD in Sustainable Bio-pesticide Development

University of Sri Jayewardenepura

June 2019 - July 2023

Dissertation: Production of Mosquito Repellents Using
Lesser Known, Under-Utilized Volatile Oil Producing Plant
Species

B.Sc. (Hons) in Applied Sciences

University of Sri Jayewardenepura

January 2015 - December 2018

Major: Plant Biotechnology | Minor: Chemistry and Zoology
2nd Class (3.159 GPA)

Dissertation: Evaluation of Microbial Counts in Apple
Flavoured Beer Compared to Base Beer after Exposing to an
External Environment

Awards

Best Oral Presenter

26th International Forestry Symposium

January 2022

Session: Environmental Economics and Resource Management

Title: Potential of Extra Income Generation for the Rural Sector by Medicinal Plant Cultivation

Relevant Experience

Molecular Medicine Unit

Research Assistant

Faculty of Medicine, University of Kelaniya, Ragama, Sri Lanka

December 2023-Present

- Implement advanced hatchery management and molecular analysis protocols
- Apply cutting-edge techniques in molecular medicine
- Collaborate on interdisciplinary medical research initiatives

Dean's Office, Faculty of Applied Sciences, University of Sri Jayewardenepura

Temporary Demonstrator

Nugegoda, Sri Lanka

September 2023-December 2023

- Revolutionized administrative workflows, reducing process time and boosting student satisfaction
- Developed and implemented a streamlined communication system between faculty and 500+ students
- Orchestrated dean's office operations, ensuring seamless academic and administrative functions

Published in Peer-Reviewed Journals

- **Munugoda, K. D.**, Thalagala, T.S., Subasinghe, S. M. C. U. P., Hettiarachchi, D. S., Cooray, A. T., & Hapugoda, M. D. (2023). Choice modelling for the commercial cultivation of underutilized aromatic plants for producing mosquito repellents: Targeting rural sector income generation. *Economic Botany* (2023), 1-19.
<http://dx.doi.org/10.1007/s12231-023-09573-y>
- Chen, J., Lee, S. Y., **Munugoda, K. D.**, Mohamed, R., Subasinghe, S. M. C. U. P., & Liao, W. (2021). The complete chloroplast genome of Walla Patta, *Gyrinops walla* (Thymelaeaceae), an agarwood-producing tree species from Sri Lanka. *Mitochondrial DNA Part B*, 6(6), 1699-1701.
<http://dx.doi.org/10.1080/23802359.2021.1926362>

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Certifications

PacMOSSI-Aedes & Anopheles Surveillance & Control

James Cook University, Australia

June 2024

Thermo Fisher Scientific - Mass Spectrometry Job Simulation

Forage

January 2024

Research Methodology and Scientific Writing

Faculty of Graduate Studies, University of Sri Jayewardenepura, Sri Lanka

November 2020

Guest Lectures

Department of Agricultural and Food Technology

University of Vocational Technology, Dehiwala-Mount Lavinia, Sri Lanka

2019-2021

Research methodology (undergraduates)

Department of Forestry and Environmental Sciences

University of Sri Jayewardenepura, Gangodawila, Nugegoda, Sri Lanka

2019-2023

Course: Research methodology (undergraduates and master students)

Memberships

Associate (A. I. Chem.C.)

Membership No: 3548 Aff

The Institute of Chemistry Ceylon

Affiliated to Federation of Asian Chemical Societies (FACS), International Union of Pure and Applied Chemistry

(IUPAC), Royal Society of Chemistry, UK and Royal Australian Chemical Institute.

https://fct.ichemc.ac.lk/members/members_global.php

Languages

English IELTS 7.0 (Academic)



References

References will be provided upon request.