



Chamini Lokuge

Research Scientist

Herbal Technology Section

Qualifications

BSc. (Hons) in Applied Sciences (University of Sri Jayewardenepura, Sri Lanka) PhD (reading) Natural product chemistry (University of Colombo, Sri Lanka)

Contacts

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Specialized Fields

Natural Products Chemistry, Analytical Chemistry.

Interest Areas

Essential oils, isolation of natural products by fractional distillation, identification and characterization volatile and non-volatile compounds by GC-MS, HPLC analysis, chemical synthesis of organic compounds, synthesis and characterization nanoparticles and determination of biological activities, cosmetic science

Publications

Communications

- **Lokuge C.M.**, Weerathunge H.D., Premakumara G.A.S., De Silva H Preparation and characterization of solid lipid nanoparticles loaded with Ceylon citronella oil as a potent system for slow-releasing mosquito repellent, Annual Research Symposium, University of Colombo, (2024)
- **Lokuge C.M.**, Weerathunge H.D., Premakumara G.A.S., De Silva H Preparation and characterization of solid lipid nanoparticles loaded with Ceylon citronella oil as a potent system for slow-releasing mosquito repellent, Annual Research Symposium, University of Colombo, (2024)
- Sandeepnai A.P.P., Liyanaarchichi G.D., Mewan K.M., Weerathunge H.D., Jagoda D., Weerasooriya C.J., **Lokuge C.M.**, Samarasekara R.M. Optimization of solvent-free microwave extraction of essential oil from fresh leaves of *Acronychia pedunculata* by response surface methodology and evaluation of antioxidant and 5-lipoxygenase inhibition activity Proceeding of 22nd Agricultural research symposium (2024), 311-315.
- **Lokuge C.M.**, Weerathunge H.D., Premakumara G.A.S., De Silva H, Fractionation of cinnamon oils by fractional distillation under vacuum to formulate internationally compatible flavor profile of cinnamon bark oil, 2nd International trainee symposium, Agri-food, nutrition and health, University of Manitoba, Canada (2023)
- Weeratunga, H.D., Weerasinghe, P.D., Ranasinghe, P., Mewan, K.M., Hewajulige, I.G.N., Wijesiriwardena, C., Perera, H.P.D., Fernando, P., Samarasinghe, K., Rajawardena, U., Gunawardhana, T., Madage, S., **Lokuge, C.M.** (2023). Impact on the chemical composition of *Cinnamomum zeylanicum* Blume with different peeling techniques. 52nd Annual Session of Institute of Chemistry Ceylon the Tri- Annual Publication, Vol. 40, No. 2, Pg. 38
- **Lokuge C.M.**, Ranasinghe P., Weerathunge H.D., Premakumara G.A.S., De Silva H, Fractionating of Ceylon citronella (*Cymbopogon nardus L Rendle*) essential oils by fractional distillation under the reduced pressure -Proceedings of the 6th International conference on medicinal plants, herbal products & hydroponics (2022),
- **Lokuge C.M.**, Ranasinghe P., Weerathunge H.D., Premakumara G.A.S., De Silva H.I.C, *Cinnamomum zeylanicum* Blume post distillation waste mediated fabrication of silver nanoparticles and evaluation of their antimicrobial activities, 51st Annual Sessions, Institute of Chemistry Ceylon (2022)

	<ul style="list-style-type: none"> – Lokuge C.M., Ranasinghe P., Weerathunge H.D., Premakumara G.A.S., De Silva H.I.C, Green synthesis of silver nanoparticles using post distillation water and residual cinnamon waste, 5th Biennial Research Symposium, Industrial Technology, Institute, Sri Lanka (2021), 29 – Lokuge C.M., Weerathunge H.D., Premakumara G.A.S, Chandrathilake G.G.T, Evaluation of essential oil yield and chemical composition of lemongrass (<i>Cymbopogon</i> spp.) cultivars grown different location in Sri Lanka Proceedings of the International Forestry and Environment Symposium Volume 24 (2019), 60 – Lokuge C.M., Chandrathilake G.G.T, Weerathunge H.D. Study on Chemical Composition of the Essential Oils obtained from selective oil-bearing plants in Sri Lanka, 5th UNI-IN ALLIANCE 2019 Symposium of the B.Sc.(Honors) Degree in Applied Sciences,7 – Lokuge C.M., Weerathunge H.D., Abeysekera W.P.K.M, Premakumara G.A.S, Chandrathilake G.G.T, Samaraweera D.N., Comparative Study on Chemical Compositions of Bark and Leaf Essential Oils of Sri Wijeya and Sri Gemunu Cinnamon Varieties (<i>Cinnamomum zeylanicum</i> Blume) Developed in Sri Lanka, Proceedings of the International Forestry and Environment Symposium Volume 23 (2018), 204
Major Projects Undertaken	<ul style="list-style-type: none"> – Fractional distillation of endemic resin oils and wild cinnamon under reduced pressure, evaluating chemical composition, and value-added potential. (Funded by Sri Lanka Treasury) (TG 24-232)