

WALIMUNI NAYOMI DESHANI DE SILVA

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Profile

- A dedicated professional in chemistry and biochemistry with two years of experience in research and one and half years of experience in mentoring undergraduates

Academic qualification

Ph.D. (Biochemistry) (reading)

- Title: Development, characterization and bioactivity assessment of nanoencapsulated antidiabetic herbal drug leads from Sri Lankan flora

Higher Education (2015 – 2018)

- B.Sc. Special Degree in Chemistry (Hons), University of Peradeniya

Extra – Curricular Activities

- Leader of school senior debate team (2009-2012)
- Member of Southlands College chess team
- Member of media unit of Southlands college, Galle
- Participated as a main announcer of school special functions
- Participated interfaculty debate competition for science faculty of University of Peradeniya
- Member of the Chemical Society of University of Peradeniya

Achievements

- Won “Australian National Chemistry Quiz competition” with merit distinction in 2011
- Participated in the “All Island Inter School Chess Championship” in 2004
- Participated in many Chess Championship tournaments and won places (2002-2004)
- Won award as the best Sinhala announcer in school prize giving 2009

- Participated to “Sirasa The debater” debate competition 2011 and won award as the best debater in third round
- Participated in many debate competitions and won places (2008-2012)

Teaching Assistant Experience

- Performed Laboratory sessions for 1st, 2nd, 3rd year undergraduate students (2019)
- Done practical sessions for exams for undergraduate students (2019)

Research Experience

- Ph.D. research (Present) - Development, characterization and bioactivity assessment of nanoencapsulated antidiabetic herbal drug leads from Sri Lankan flora
- Undergraduate research topic (2018) - Evaluation of one of the causative factors for CKDu: Analysis of effect of glyphosate on surface water quality
- Instruments used: COD Analyzer, Ion chromatography, Inductive Coupled Plasma Atomic Emission Spectrometers (ICP-AES), Fluoride ion selective electrode, Atomic Absorption Spectrometer (AAS), Conductivity meter, pH meter

Seminars and Presentations

- 2018 - Final year seminar presentation on “**Cryogenic Electron Microscope**” under supervision of Dr. V. N. Seneviratne, Department of Chemistry, University of Peradeniya, Sri Lanka.
- 2018 – Industrial Poster Presentation “Develop a gravity relationship and identification of lead dioxide and lead sulphate percentage of charged battery and lead sulphate percentage of uncharged battery” based on industrial programme attended for six weeks at Associated battery Manufacturers, Rathmalana, Sri Lanka.
- 2018 – Final year research presentation on “**Effect of Glyphosate on Surface Water Quality Parameters of Growing Paddy field**” under supervision of Prof. A. N. Nawaratne, Department of Chemistry, University of Peradeniya, Sri Lanka.

Conference (Abstract publication)

- De Silva, W. N. D., Navaratne, A. N., (2019). Effect of glyphosate formulation (Roundup) on surface water quality parameters of paddy-growing fields. International

symposium on water and air pollution recent advances in Research, Postgraduate Institute of Science (PGIS), University of Peradeniya, Sri Lanka and National Chung University (NCHU), Taiwan.

- Shanmuganathan, E., De Silva, W.N., Attanayake, A.P., & Arawwawala, L.D.A.M. (2021). Quantification of polyphenol and flavonoid content in aqueous leaves extract of Ivy gourd collected from different geographical locations in Sri Lanka. Faculty of Medicine Academic Sessions 2020, Galle, Sri Lanka – **Award for the poster presentation**
- De Silva, W. N. D., Attanayake, A.P., Arawwawala L.D.A.M., Karunaratne, D. N., Pamunuwa, K. M. G. K., (2021). Optimization of Preparation of Alginate Nanoparticles for Effective Nanoencapsulation of Ivy Gourd Leaf Extract. 18th Academic Sessions, University of Ruhuna. Pp. 91
- De Silva, W. N. D., Attanayake, A.P., Arawwawala L.D.A.M., Karunaratne, D. N., Pamunuwa, K. M. G. K., (2021). Evaluation of total polyphenol, total flavonoid content and alpha amylase inhibitory activity of three selected medicinal plant extracts. Research conference in Health Sciences, University of Sri Jayawardenepura, Sri Lanka. Pp. 170
- De Silva, W. N. D., Attanayake, A.P., Arawwawala L.D.A.M., Karunaratne, D. N., Pamunuwa, K. M. G. K., (2021). In vitro antidiabetic activity of aqueous leaf extract of *Coccinia grandis* L. encapsulated alginate nanoformulation. 3rd CBSL Conference, College of Biochemists in Sri Lanka. – **Award for the best oral presentation**

Referees

1. Dr. V. N. Seneviratne,
Senior Lecturer in Chemistry
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2. Prof. A. N. Nawaratne

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3. Prof. M.Y.U Ganehenege

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