Department of Chemistry
Faculty of Science / University of Peradeniya



Dr. J. M. Susanthi Jayasinghe

B.Sc. (Perad.)

Senior Lecturer

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About Me

Susanthi Jayasinghe has been trained in the field of natural product chemistry and synthetic organic chemistry in isolation and characterization of compounds and bio activity studies.She is a post graduate supervisor, Principal investigator and Co-PI of several research grants in a number of research projects in the field of natural product chemistry and synthetic organic chemistry funded by NSF, NRC, and AHEAD(ICE). In addition she has the experience in collaborative research work on biological studies with Department of Biochemistry, Faculty of Medicine, University of Ruhuna; Department of Microbiology, Faculty of Medicine, University of Peradeniya; Institute of Biochemistry, Molecular Biology and Biotechnology, University of Colombo for testing crude extracts, isolated pure compounds and synthetically modified compounds for anti diabetic, anti-microbial and anticancer activities.

Higher Education Qualifications

PhD

University of Kansas
USA
(2013)

BSc

University of Peradeniya
Sri Lanka
(2005)

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Awards, Scholarships, Memberships & Fellowships

- Member of American Chemical Society (Organic / Medicinal Chemistry division) 2008 onwards)
- The H. P. Cady Scholarship for the Excellent Performance in First Year Graduate student 2008-Department of Chemistry, University of Kansas
- Sultanbawa Prize for the Best Performance in Organic Chemistry in the B.Sc. Special Degree Program 2005 –Department of Chemistry, University of Peradeniya, Sri Lanka
- University Award for Academic Excellence in B.Sc. Special Degree in Chemistry Program – 2005 University of Peradeniya, Sri Lanka
- NRC-Investigator driven grants 2017

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Positions Held

- Assistant Lecturer at the Department of Chemistry, Faculty of Science, University of Peradeniya.- (2007)
- Temporary Lecturer at the Department of Chemistry, Faculty of Science, University of Peradeniya.
- Secretary -Board of study in Chemical Sciences- (2017-todate)
- Co-Coordinator- MSc in Industrial Chemistry- (2015-todate)
- Senior student counselor- (2016, 2017)
- Volunteer Student counselor- (2019)

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My Teachings

- CH221: Organic Chemistry
- CH222: Introductory to organic synthesis
- CH324: Organic Chemistry II
- CH425: Advanced Organic Chemistry

Research Interests (Research Fields/ Projects)

Natural product Chemistry (isolation and
synthesis of biologically active natural products) ,

Diversity oriented synthesis

Ongoing Research and Projects

- **Synthesis of biologically active natural product libraries of 3?-[(?-arabinopyranosyl)oxy]olean-12-en-28-oic acid**
- **Development of nutraceutical for diabetes and cholesterol reduction with scientific validation from the selected medicinal plant extracts.**
- **Studies on bioactivities and chemical constituents of *Holarrhena mitis.***
- **Synthesis of bioactive natural product libraries of 6?-hydroxy betunolic acid**
- **Combined therapeutic drug leads for antidiabetic and anti-hyperlipidaemic treatments from the selected combined medicinal plants**

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Key Publications

Org. Lett. - (2014)

An Efficient, Modular Approach for the Synthesis of (+)-Strictifolione and a Related Natural Product.

Beilstein J. Org. Chem. - (2014)

A Modular Phosphate Tether-Mediated Divergent Strategy to Complex Polyols.

Conferences

2nd International Conference on Health Sciences

HELD AT : University of Sri Jayewardenepura, Sri Lanka - (17th, 18th October 2019)
TOPIC : *Bioassay-guided isolation of ursolic acid from Holarrhena mitis (Vahl) R.Br.*

Asian Symposium on Medicinal Plants, Spices and Other Natural Products

HELD AT : The Galadari Hotel, Colombo, Sri Lanka - (12-14 December 2018)
TOPIC : *Synthesis of derivatives of ?-sitosterol and their anti-bacterial activity studies*

Eurasia Conference on Chemical Sciences

HELD AT : University of Sapienza, Rome - (5-8 September 2018)
TOPIC : *Structure activity relationship of 7-hydroxy betunolic acid against Staphylococcus aureus and MRSA*

International Research Sessions

HELD AT : University of Peradeniya - (4-5 November, 2016)
TOPIC : *Bioassay guided isolation of active compounds from hexane extract of fruits of gacinia quasita.*

My Publications

Please goto the website.

https://sci.pdn.ac.lk/chemistry/staff/Susanthi-Jayasinghe

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