

Profile of Prof. Dr.Shubashini K.Sripathi

Dr. Shubashini K. Sripathi
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Education

October 1994 Ph.D. (Chemistry of Natural Products) – Madurai Kamaraj University, Madurai, India , Thesis Highly commended by research

April 1985 M.Sc. in Chemistry - Madurai Kamaraj University, Madurai, India; First Class

April 1983 B.Sc. in Chemistry - Fatima College, Affiliated to Madurai Kamaraj University, Madurai, India; First Class

Research

Over **thirty eight years** research experience in the specialized areas of isolation, structure elucidation and synthesis of natural products.

Title of the Ph.D. Dissertation: ***Newer Constituents of Dalbergia sissooides (Grah) and a One-Pot synthesis of 3-aryl-4-hydroxycoumarins***

Doctoral research involved in part the chemical investigation of a medicinal plant which led to characterisation of novel molecule of the rotenoid class along with its biogenetic precursor. A facile synthesis of biologically active coumarins comprised the other part of the research study.

Research Interest: Isolation, purification and characterisation of different natural compounds from their plant sources, identification of biological active principles of indigenous medicinal plants, standardization of active extracts of medicinal plants, search for active natural products through bio-guided fractionation and green methods of organic synthesis

Research Supervision

Ph.D Candidates: Awarded: 8

Ongoing doctoral guidance: 2 candidates

Postgraduate Projects Guided:
M.Sc. 58; M.Phil. 25

Teaching

Thirty one years of teaching courses to undergraduate and graduate students of Chemistry

Core courses taught: Organic Chemistry, Organic Spectroscopy and Natural Products Chemistry to both undergraduate and postgraduate students.

ICT enabled teaching of course material is synergised with mentoring of wards

Present Position:

Deputy Dean, School of Physical Sciences and Computational Sciences

Employment

- June 2022 till date: Deputy Dean, School of Physical Sciences and Computational Sciences
- January 2009 till date, **Professor**, Department of Chemistry, Avinashilingam Institute for Home Science and Higher Education for Women
- August 2018- February 2022: **Head**, Department of Chemistry
- July 2002 to December 2008 **Associate Professor**, AIHS&HE
- July 1993 to June 2002 **Assistant Professor**, AIHS&HE
- July 1989 to February 1993 **Senior Research Scholar**, Department of Natural Products Chemistry, School of Chemistry, Madurai Kamaraj University (MKU), Madurai
- July 1986- June 1989 **UGC Junior Research Fellow**, MKU

Awards and Honours

- UGC Junior Research Fellowship Award -1986
- **Mentor** - INSPIRE programme of the Department of Science and Technology (DST), India
- **Best Paper Awards** for research papers presented in National Conferences
- **Best NSS Programme Officer Award** of Tamilnadu State NSS cell for the year 2005-2006
- **Best NSS Programme Officer Award** of Avinashilingam University for the year 2004-2005
- **Shiksha Rattan Puraskar Award** for excellence in the field of education and research by the India International Friendship Society, New Delhi in 2011
- **National Education Excellence (Chemistry) Award 2021**, The International Multidisciplinary Research Foundation, India,
- **National Award for Excellence (Research) 2021**, Global Management Council, India
- **Lifetime Achievement Award**, INSO 2022, India

- APJ Abdul Kalam Award for Outstanding Researchers 2024, ARAI, India

Two Patents awarded

Patent Grant on the invention entitled Wound healing Topical Ointment from Solvent Extracts of *Pisonia grandis* and products Thereof, Patent Number 410082, The Patent Office, India, Date of award 27.10.2022

Patent Grant on the invention entitled Process of Preparation of a Herbal Bandaging Fabric Coated with Leaf Extracts of *Pisonia grandis* and products Thereof, Patent Number 499727, The Patent Office, India, Date of award 16.01.2024

Professional Affiliations

- Life Member of **Indian Science Congress Association**
- Life Member of **Indian Council of Chemists**
- Member-**American Chemical Society 2019-20**
- Life Member **Association of Researchers and Academicians India**

Publications

Research Papers: 80; Books: 11; Book Reviews: 3

Conference Presentations: 35

Research Profile

Orcid Id : [0000-0003-1386-0280](https://orcid.org/0000-0003-1386-0280)

Scopus Id: [6602448360](https://scopus.org/authorid/6602448360)

Google Scholar Id: [Wboog58AAAAJ](https://scholar.google.com/citations?user=Wboog58AAAAJ)

GS Citations 859; h-Index 24; i-10 Index 24

Scopus Citations: 209

Research Support Received

- DRDO-LSRB sponsored major project "**Foe turns Friend- Isolation of commercially useful organic compounds from Water Hyacinth**" **July 2009 to June 2012**

The goal of the project - To isolate commercially useful secondary metabolites from water hyacinth

Role: Co-investigator

Funding Rs.15.44

Lakhs

- Interdisciplinary major project titled "**Harnessing Herbal Potential of *Pisonia grandis* in the Development of Medical Textiles**" sponsored by the Technology Development and Transfer Board of the Department of Science and Technology (DST) **July 2013- July2015**

*The goal of the project is to develop herbal medicinal textile products based on the active extracts of the plant *Pisonia grandis* R.Br.*

**Role: Principal Investigator
Lakhs**

Funding Rs.19.71

- Extra Mural Research Scheme of Ministry of AYUSH sponsored major project titled **“Validating the diabetic wound-healing activity of Jatyadi Thailam using an in vitro Reverse Pharmacology approach” 2018-2022; extended till**

December 2022

**Role: Principal Investigator
Lakhs**

Funding Rs.25.5

Professional Activities

Administrative work

- **Deputy Dean**, School of Physical Sciences and Computational Sciences **2022-2025**
- **Programme Coordinator** for Sixth Short term capacity building programme on AI for Science Teaching organized by the AI-AADC of AIHS&HE **-June 2024**
- **Member -Academic Council 2023,2024, 2025**
- **Head**, Department of Chemistry **August 2018- February 2022**
- **Member -Library Committee**, AIHS&HE, **2023 onwards**
- **Nodal officer**, MoU of Institution with with AVP P Ltd. **2022-2027**
- **Member of Board of Studies in Chemistry**, AIHS&HE **2009 till date**
- **Coordinator-IPR Cell** of AIHS&HE **2018 -2021**
- **Chairperson of Board of Studies in Chemistry -AIHS&HE ,2018-2021**
- **Member of Research Advisory Council** of AIHS&HE **2013 till 2021**
- **Member of Research Advisory Council and Managing Committee of International Institute of Ayurveda (IIA-Chemistry R&D, Coimbatore, South India) 2015 - 2018**
- **Member of Curriculum Restructuring Committee** of AIHS&HE **2013-2015**
- **Member - Performance Based Assessment System PBAS- Scrutiny Committee 2010-2015**
- **Member -Human Ethical Committee of University 2013 till date**
- **Facilitator - Institutional Bio Safety Committee 2023**
- **Convener of Research Convention** - a biannual event organized for the Research Scholars of the University - **2010 till 2016 - eleven research conventions organized**
- **Convener of student feedback committee** AIHS&HE **2007 - 2015**
- **Internal member of question paper scrutiny board 2018-2021**
- **Nodal Officer in DST CURIE II Phase project** of AIHS&HE **2017-2020**
- **Convener of committee for documentation of factual data for the expert team** during Review of Deemed University status of institution July 2016-Jan 2017
- **Team coordinator for Pelatonia Student Exchange programme with Ohio State University 2015-16**
- **Member of NAAC SSR documentation team for Criteria VI -Leadership, Governance and Finance**

- Team lead [NAAC SSR documentation team for Criteria VI –Leadership, Governance and Finance for reassessment in 2020](#)
- [Resource person](#) for Criteria VI –Leadership, Governance and Finance –SSR preparation mentoring in [UGC’s Paramash Project 2020 -21](#)

Community Responsibilities and Contribution

- NSS programme officer of Avinashilingam University for the adopted village Bommanampalayam from April 2003 to March 2006
- Presiding Officer in General Elections to Lok Sabha 2014, 24.04.2014, Panchayath Union Middle School, Kuniyamuthur, Coimbatore Dt.
- Presiding Officer in Casual Election of Mayor of Coimbatore Corporation 2014 , 18.09.2014 , Corporation Elementary School, Avarampalayam Road, Coimbatore
- Presiding Officer in Panchayath Elections, 2014, Sundarapuram

Recent Professional Workshops/Forums attended

- Use of ICT in Teaching Learning Process , ACT Academy Kerala in Association with School of Arts and Humanities, Dr Subhash University, 21.11.2024-27.11.2024
- **FDP on 'Generative AI and Advanced Tools for Academic Research' Scrollwell and Ministry of Education’s Institution Innovation Council (IIC GGI Ludhiana) Gulzar Group of Institutes Ludhiana (Punjab) 26.08.2024-01.09.2024**
- One-Week Online Faculty Development Program on “Research Methodology: Techniques, Analysis, and Presentation” Scrollwell and Ministry of Education’s Institution Innovation Council (IIC GGI Ludhiana) Gulzar Group of Institutes Ludhiana (Punjab) 29.04.2024 - 05.05.2024
- 14 Days National Level Faculty Development Programme on "Innovative Teaching Strategies And Tools In The Digital Age" Scrollwell and Ministry of Education’s Institution Innovation Council (IIC GGI Ludhiana) Gulzar Group of Institutes Ludhiana (Punjab) 11.12.2023- 24.12.2023
- Workshop on ‘Understanding Institutional Bio Safety Standards’ organized by the Institutional Bio safety Committee, AIHS&HE, 30.11.23
- **Non-credit Coursera course on ‘Learning for a Sustainable Future’, authorized by The University of Edinburgh and British Council and Learning for Sustainability ,Scotland**
- National level online FDP on ‘Inclusive Procedures and Processes for NAAC Assessment and Accreditation’, ACT Academy, 24-30 April 23 (6-7pm)
- Short-Term Capacity-Building Program on ‘Emotional Well-Being at Technology Enabled Workplace’ -AIU-AI-AADC, 24.04.2023 to 03.05.2023
- Short-Term Capacity-Building Program on Academic Leadership 5.0 -AIU-AI-AADC, 20.02.2023 to 28.02.2023
- **Short-Term Capacity-Building Program on Leveraging Open Educational Resources (OER) for Effective Teaching- Learning -AIU-AI-AADC, 24.08.2022 to 30.08.2022**
- Webinar on ‘Importance of Feedback in Quality Assurance for HEIs’, organized by IQAC

- 'Structural Analysis of Nanomaterials', NPTEL online workshop, 2-3 July 2022
- Workshop on 'Quality Research and UGC CARE Journals', organized by R and D Cell and IQAC, AIHS&HE, 17.5.22
- Workshop on 'Enhancing Creativity in the New Normal Classroom Environment: Challenges and Projects', organized by Tamilnadu Teacher Education University and Loyola College Chennai in collaboration with Universiti Teknologi, MARA, Malaysia, 13-14 May 2022
- Training on 'Data interpretation of GCMS and LCMS', Cytogene, R and D., Lucknow, 12-13 March 2022
- Five Days Online Training on 'Herbal Drug Development Technologies' organized by CSIR-Central Institute of Medicinal and Aromatic Plants, Lucknow, 21-26 February 2022
- **National workshop (Online full time) on 'Learning Management System-Moodle' organized by the Teaching and Learning Centre, SNDT Women's University, Mumbai, July 27- August 2, 2020**