



**Dr. S.D. Saraswathy, M.Sc., Ph.D.,
Associate Professor**

Contact

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Academic Qualifications: M.Sc., Ph.D. (Biochemistry)

S. No.	Institution / Place	Degree Awarded	Year	Field of Study
1.	University of Madras	M. Sc.,	1993-1995	Biochemistry
2.	University of Madras	Ph. D.,	1996-2001	Biochemistry

Teaching & Research Experience: 19 Years

S. No.	Designation	Year	Department/University
1.	Associate Professor	Feb 2020 to till date	Department of Biomedical Science, Bharathidasan University, Trichy.
2.	Assistant Professor	Sep 2007 to Feb 2020	Department of Biomedical Science, Bharathidasan University, Trichy.
3.	Lecturer	Jun 2004 to Apr 2005	Department of Biochemistry, Alpha Arts & Science College, Chennai.
4.	Lecturer	Jun 2001 to Feb 2003	Department of Biochemistry, Prince Shri Venkateswara Arts & Science College, Chennai.

Areas of Research

- Isolation of bioactive compounds from plant and marine sources and to explore the pharmacological properties.
- Study the anti-diabetic potential and anti-cancer potential of small molecules.

Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	Ph. D.,	2	1
Project	M.Phil.	1	-
	PG	10	-

Funded Research Projects

Completed Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1.	UGC, New Delhi.	July 2011	Dec. 2014	Studies on attenuating effects of L-carnitine on lipopolysaccharide - induced hepatitis in D-Galactosamine sensitized rats.	14.7
2.	RUSA-2.0, MHRD, New Delhi.	April 2021	Aug. 2024	Studies on the extraction, characterization and Biomedical applications of polysaccharides from <i>Elaeocarpus floribundus</i> seed extract.	9.0

Publications: 20

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
10	1	6	1	4

h-index : 5 4 Since (2019)
i10 index : 4 2
Total Citations : 228 101

Scientific Publications

1. Sanmuga Priya E, Sivasakthi P, Senthamil Selvan P, Saraswathy SD. *Rosmarinus officinalis* L.: A source of potential antimicrobial agents for combating antimicrobial resistance. *Letters in Applied NanoBioScience*, 2024; 13 (1): 45.
2. Jegadeshwari B, Saraswathy SD. Marine seaweed polysaccharides: An insight into biological activities and biomedical applications. *The Natural Products Journal*, 2024; 14 (9): In Press. Article ID: e220224227339. Published online: 22 February, 2024.
3. Vanathi G, Saraswathy SD. Computational insights into the interaction of pinostrobin with Bcl-2 family proteins: A molecular docking analysis. *Asian Pacific Journal of Cancer Prevention*, 2024; 25 (2): 507-12.
4. Maneemegalai S, Jasmin Lena P, Uma M, and Saraswathy SD. Evaluation of the effect of pollution on the level of antioxidant enzymes in freshwater fishes. *Journal of Advanced Zoology*, 2023; 44 (2): 225-232.
5. Saraswathy SD, Mirunalini A, Karthikeyan K and Premkumar K. BH3 mimetic peptides: An effective strategy to complement anticancer therapy. *Current Protein & Peptide Science*, 2023; 24 (10): 853-864.
6. Jegadeshwari B, Thenmozhi K, Sanmuga Priya E, Saraswathy SD. An overview on the ethnopharmacological, nutritional, and phytochemical perspectives of *Elaeocarpus floribundus* Blume. *Current Pharmacology Reports*, 2023; 9 (5): 377-389.
7. Vigneshwaran S, Maharani K, Sivasakthi P, Senthamil Selvan P, Saraswathy SD, Sanmuga Priya E. Bioactive fraction of *Tragia involucrata* Linn leaves attenuates inflammation in Freund's complete adjuvant-induced arthritis in Wistar albino rats via inhibiting. NF- κ B. *Inflammopharmacology*, 2023; 31 (2); 967-981.
8. Saraswathy SD, Mershiba S, Sahayamary S. Exploring the antimycotoxigenic potential of *Acalypha indica* and *Bidens pilosa*. A special issue on 2nd International Conference on "Advances in Medical Science and Molecular Biology". *International Journal of Life Science and Pharma Research*. SP-13; 2020; 10: 13-18.
9. Suseela P, Saraswathy SD. Formulation, characterization and pharmacokinetic evaluation of naringenin-loaded gastroretentive mucoadhesive polymeric nanosystem for oral drug delivery. *Journal of Drug Delivery and Therapeutics*, 2015; 5 (2): 107-114.
10. Mershiba SD, Saraswathy SD. Protective effect of chrysin (5,7 - dihydroxyflavone) on hyperglycemia and augmented oxidative stress in streptozotocin-nicotinamide induced experimental rats. *Biomedicine*, 2015; 35 (1): 81-86.
11. Mershiba SD, Dassprakash MV, Saraswathy SD. Protective effect of naringenin on hepatic and renal dysfunction and oxidative stress in arsenic intoxicated rats. *Molecular Biology Reports*, 2013; 40 (5): 3681-3691.

12. Saraswathy SD, Shyamala Devi CS. Antitubercular drugs induced hepatic oxidative stress and ultrastructural changes in rats. *BMC Infectious Diseases*, 2012; 12 (Suppl 1): 85. (Abstracts from the 1st International Science Symposium on HIV and Infectious Diseases - Poster presentation).
13. Saraswathy SD, Gurumurthy P, Devarajan A, Jagannath K, Shyamala Devi CS. Effect of Liv.100 on antioxidant status in patients administered with different anti-TB drug regimens. *Biomedicine*, 2001; 21 (2&3): 56-64.
14. Saraswathy SD, Shyamala Devi CS. Modulating effect of Liv.100 an ayurvedic formulation on antituberculosis drug-induced alterations in rat liver microsomes. *Phytotherapy Research*, 2001; 15 (6): 501-505.
15. Saraswathy SD, Shyamala Devi CS. Effect of Liv.100, an ayurvedic formulation on the erythrocyte antioxidant status in antitubercular drug-induced liver injury in rats. *Biomedical Research*, 2000; 21 (4): 185-190.
16. Saraswathy SD, Shyamala Devi CS. Hepatoprotective effect of Liv.100, a polyherbal formulation, on mitochondrial enzymes in anti-tubercular drug-induced liver damage in rats. *Journal of Clinical Biochemistry and Nutrition*, 1999; 26 (1): 27-34.
17. Saraswathy SD, Prema Gurumurthy, Shyamala Devi CS. Effect of Liv.100 against antitubercular drugs (Isoniazid, Rifampicin and Pyrazinamide induced hepatotoxicity in rats. *Indian Journal of Pharmacology*, 1998; 30 (4): 233-38.

Authored Book Chapters

1. Jegadeshwari B, Saraswathy SD. (April 2024). The role of IL-9 and Th9 cells in cancer immunity. Lowell T. Duncan (Ed) In: *Advances in Health and disease*. Vol. 79, pp. 97-131. Nova Science Publishers, Inc. NY, USA. ISBN: 979-8-89113-492-8.
2. Aarthi T, Jegadeshwari B, Saraswathy SD, Sivasakthi P, Sentamil Selvan P and Sanmuga Priya E. (December 2023). The role of interleukin-17 (IL-17) – A critical mediator of inflammatory arthritis. Lowell T. Duncan (Ed) In: *Advances in Health and disease*. Vol. 78, pp.105-136. Nova Science Publishers, Inc. NY, USA. ISBN: 979-8-89113-382-2.
3. Saraswathy SD. (2018) Flavonoids are multitargeted hepatoprotective agents: Insight into the mechanism of action in hepatocellular carcinoma. Pandima Devi K (Ed) In: *Recent Advances in the Molecular Mechanism of Flavonoids*. pp. 342-358. Studium Press (India) Pvt. Ltd. ISBN-13: 978-9385046216.
4. Suseela P, Saraswathy SD. (June 2014) Enhanced oral bioavailability of naringenin polymeric nanoparticles: Formulation, characterization and *in vivo* studies. Latha S, Selvamani P. Subramanian N (Eds) In: *Nanobio Pharmaceutical Technology - Applications and Perspectives*. pp. 237-244. Elsevier India Pvt. Ltd. ISBN: 978-935-107-293-5.

Distinctive Achievements / Awards

1. Awarded 3rd Prize in Poster presentation (December 2021), International online conference on “Holistic Approach to Immunity to Microbial Diseases and their Treatment” organized by Mahathma Gandhi University, Kottayam, Kerala.
2. Received Best Paper Presentation award (August 2019), International Conference at NKR, Govt. Arts College for Women, Namakkal, Tamil Nadu.
3. Awarded Visiting Fellowship by Indian National Sciences Academy (INSA), New Delhi during May 2012.
4. Awarded Senior Research Fellowship (SRF) by Council of Scientific and Industrial Research (CSIR), New Delhi, April 2000.
5. Awarded Junior Research Fellowship (TN-JRF) by Govt. of Tamil Nadu, April 1998.

Events organized in leading roles

1. Nation Webinar on “Emerging Trends in Health Care” on 13th March 2022.
2. One day Workshop entitled “Techniques in Clinical Hematology and Biochemistry” (TCHB-2018) on 3rd April 2018 at Department of Biomedical Science, Bharathidasan University, Tiruchirappalli, Tamil Nadu.
3. National Level Seminar on, “Recent Advances in Biomedical Research on Infectious and Non-infectious Diseases (RABRINID – 2011)” on 13th & 14th October 2011 at Department of Biomedical Science, Bharathidasan University, Tiruchirappalli, Tamil Nadu.

Membership in Professional Bodies

1. Life Member: Indian Association of Biomedical Scientists (IABMS), India.
2. Life Member: The Society of Biological Chemists (SBC), India.
3. Life Member: Society for Biotechnologists (SBT), India.
4. Life Member: National Academy of Biological Sciences (NABS), India.

Peer Review Activity : 15

Special Lectures & Invited Talks : 19

Presentation & Participation in Conference/Seminar/Workshop : 43

Others

1. Delivered a special talk on National Science Day in Pudhugai FM 91.2 MHz Community radio on 28 February 2024.
2. No. of Ph. D., Thesis evaluated: 3
3. No. of M. Phil., Thesis evaluated: 5