

NAME : Dr. S. Nithya

Qualification : M.Pharm., Ph.D., (PGDAW),

Designation : Professor

Mail id: nithya.s@sriramachandra.edu.in



Area of Research Expertise: Neuropharmacology.

The primary focus of my current research is “Neuropathic pain”- to study the potential treatment for the drug induced neuropathy and to study the mechanism that produces the neuropathy and screen them for therapeutic potentials. A complete knowledge of pathophysiology of neuropathic pain requires the development of additional models with their different aetiologies than those presently used such as trauma and metabolic models. The absence of knowledge concerning mechanisms of chemotherapy- induced neuropathic pain has hindered the development of new treatment strategies. Vincristine, an antineoplastic agent widely used in cancer chemotherapy for both solid tumors and haematological malignancies, is predictably and uniformly neurotoxic to all patients who receive it, and this neurotoxicity is the limiting factor in the use of the drug. My purpose of this research is to develop neuropathy in animal and to study how the drug causes neuropathy in them by measuring the biochemical parameters like neuropeptides level in brain. And then screening them for their therapeutic potentials for mechanical hyperalgesia and allodynia.

Highlights of the work:

It acts as a means of limiting vincristine neurotoxicity and could potentially increase the usefulness of vincristine as antineoplastics

It may be helpful for the development of newer model for the screening of neuropathy

Awards & Recognitions: Nil.

Lifetime Membership:

1. Association of Pharmaceutical Teachers of India (APTI)
2. Indian Pharmacological Society (IPS)

3. Registered Pharmacist, The TN state Pharmacy Council. (TNSPC)

Workshop, training undergone by faculty:

1. Two Days Hands on Workshop on Flow Cytometry: Basics, Apoptosis, Cell Cycle, Cell Viability & Data Analysis on August 4th & 5th 2023 Organised by Sri Ramachandra Faculty of Pharmacy.\
2. FDA Clinical investigator training course on CDER small Business & Industry Assistance (CDER SBIA) during Dec 7-8 2022 organized by US FDA.
3. Five days online faculty development program theme Innovation, Learning & Research in Pharmaceutical Sector organized by SPS, VISTAS, Chennai from 19.12.2022-23.12.2022.
4. Webinar A Murine Model of Myocardial Ischemia – Reperfusion injury through ligation of the left anterior descending artery on 15th October organized by Panpharmacon student club, Department of Pharmacology, Faculty of Pharmacy, Ramaiyah University of Applied Sciences.
5. National webinar on Phosphoproteomics and Proteomics: Novel insights into Cellular Signalling Organized by Department of Pharmacology, Sri Ramachandra Faculty of Pharmacy, SRIHER on 3.11.2022.
6. IP Awareness/Training Program under National Intellectual property Awareness Mission on Jan 25 2023 jointly organised by intellectual property office & MOEs Innovation Cell, India.
7. DBT sponsored popular lecture series on Biotechnology on Applications of Proteomics in the Biomedical Drug Discovery organised by Department of Pharmacology, JSS College of Pharmacy, Ooty on 4th Nov 2022.
8. PHARMGREE' 22. National Conference on Emerging trends in Pharmacogenomics & Pharmacovigilance organized by Faculty of Pharmacy DR.MGR Educational & Research Institute, Velappanchanvadi, Chennai on 21st & 22nd July 2022.
9. CPE program on Emerging trends in phytonanotechnology. Organised by Adhiparasakthi College of Pharmacy Melmaruvathur on 23rd November 2019.
10. APP 1st. Indo-Jordan Conference on. "Global Trends in Drug Design, Discovery and Pharmaceutical Sciences". Organized by Vels Institute of Science Technology & Advanced Studies (VISTAS) Chennai on 23rd July, 2019.
11. National Symposium on Emerging Areas of Research in Science, Engineering & Management organized by Vels Institute of Science Technology & Advanced Studies (VISTAS) Chennai on 15th & 16th of

October 2018.

12. National Conference on Scientific alternatives to Animal Experiments organized by Sree Balaji Medical College & Hospital, BIHER, Chennai on 12th October 2018.
13. Workshop on Relevant and Latest trends in In-Vitro Techniques Organised by Sree Balaji Medical College & Hospital, BIHER, Chennai on 11th October 2018.
14. Conference on Recent trends in Pesticide development and registration organized by international institute of Biotechnology & Toxicology, Padappai at Raintree, Teynampet on 7th & 8th of September 2018.
15. APP 7th Annual Convention & 2nd Indo-US Conference MTCCFSPST 2018. Organised by School of Pharmaceutical Sciences, VISTAS, Chennai on 27th of July 2018.
16. Elephant conference 2 organized by Department of Pharmacology, School of Pharmaceutical Sciences, VISTAS, Chennai held on 11th April 2018.
17. International Symposium on Genetic Diversity organized by Department of Biotechnology, School of Life Sciences, VISTAS, Chennai held on 2nd March 2018.
18. National Convention 2017-18 held at B.S.Abdur Rahman crescent institute of Science & Technology, Chennai 100 held on 11th February 2018.
19. AICTE sponsored National seminar on Challenges & Opportunities in Green Nanotechnology organized by Department of Pharmacognosy, School of Pharmaceutical Sciences, VISTAS held on 25th January 2018.
20. National Conference on GLP and “ISO/IEC 17025- Emphasis on Regulatory Affairs and Application in Academic Research “organized by IIBAT, Padappai during 15th & 16th of December 2017.
21. One day workshop on “4-R Approaches in Pharmacology and Toxicology” Organised by Department of Pharmacology, SRM College of Pharmacy, SRM University held on 4th August 2017.
22. Two days faculty development program on Pedagogy & Research methodology organized by Vels University, Pallavaram, Chennai on 30th and 1st July 2017.
23. Current perspectives in herbal drug regulations-Global Scenario organized by Sri Ramachandra university, Porur, Chennai, in association with society for ethnopharmacology, Chennai Chapter, on 28th & 29th June 2017.
24. Two Days National Conference on Modern Approaches in Drug Discovery, Nano formulations and Pharmacokinetics Organised by Department of Pharmaceutics, School of Pharmaceutical Sciences on 22nd & 23rd July 2016

25. Faculty Development Program on Student Centric Pedagogy organized by Vels University, on 2nd, 4th & 5th of July 2016
26. National Seminar on “Big Data Analytics in Biology” organized by the Department of Biotechnology, School of Life Sciences, Vels University, on 27th February 2016
27. One day seminar on Advances in pharmaceutical technology organized by SRM College of Pharmacy, SRM University on 11th February 2016. National seminar on Pharmacovigilance of AYUSH Drugs. Organized by faculty of pharmacy, Sri Ramachandra University in association with the Ethnopharmacology, Chennai chapter on 19th January 2016.
28. National seminar on Scientific interpretation of Indian traditional medicine organized by School of Pharmaceutical Sciences, Vels University, Chennai on 25th August 2015
29. One day workshop on Systematic review on Preclinical Studies organized by School of Pharmaceutical Sciences, Vels University on 28th January 2016.
30. CPE Program organized by Adhiparasakthi College of pharmacy, Melmaruvathur, Tamil Nadu held on 30 January 2016
31. “National seminar on new vistas in marine biotechnology”. Organized by Department of Biotechnology, School of Life Sciences Vels University on 28th February 2015.
32. “Symposium on current perspectives in biotherapeutics”. Organized by the Department of Biochemistry, School of Life Sciences, Vels university, Pallavaram on 18th February 2015
33. Workshop - Role of Experimental Surgery: From Bench to Bedside, December 13 – 14, 2013, Frontier Mediville, Frontier Lifeline Pvt Ltd., Elavur, Gummudipoondi, Tamil Nādu.
34. National Conference on Herbal Drugs: A Treasure to Entrepreneurship 23rd August, 2013. SRM COLLEGE OF PHARMACY, SRM UNIVERSITY.
35. National Conference on Recent Advances in Green Chemistry - NCRA 2013, on 18 & 19 Sep 2013, School of basic sciences, Vels university, Chennai
36. Herbal drugs: a treasure to entrepreneurship held on 23 August, 2013 organized by dept of pharmaceutical chemistry, SRM college of pharmacy, SRM University, Chennai
37. PHARMA VISION 2020, Pharmacy Education: Innovation strategies & globalization. 64th Indian Pharmaceutical Congress held at SRM University, Chennai. 7 & 9, Dec 2012

38. HERBOTECH 2012, “A National Conference on Approaches of Nanotechnology in Herbal Drug Development” held on 20th – 22nd Nov 2012 at Sri Ramachandra University, Porur, Chennai 116
39. “International Workshop on Research” held on 9th August 2012 organized by Department of Mechanical Engineering, School of Engineering, Vels University, Pallavaram, Chennai 117.
40. UGC sponsored National Seminar on “Statistics in life Sciences” on 25th January 2012 organized by department of plant biology and biotechnology and department of statistics & PG department of biostatistics held at Shrimathi Devkunvar Nanlal Bhatt Vaishnav College for Women, Chromepet, Chennai 44
41. International conference on Alternatives to animal use in research, education and toxicity investigations on 4th January 2012 organized by international institute of biotechnology and toxicology (IIBAT), Padappai, Chennai.
42. International conference on frontiers in pharmaceutical chemistry & biologics- an interdisciplinary approach Organized by department of plant biology and plant biotechnology & department of chemistry at womens Christian college sponsored by DBT, CSIR, TANSICHE. July 29- 30, 2011.
43. Indo-American pharmaceutical regulatory symposium, Conducted by Department of Pharmaceutics, Faculty of Pharmacy, Sri Ramachandra University, Porur. In collaboration with North Eastern University- USA, Annamalai University- Chidambaram, JSS University- Mysore and Indian Pharmaceutical Association, Tamil Nadu branch – Chennai. Nov 20 & 21, 2010.
44. Workshop on Fundamentals of Clinical Research”. Organized by nourish and cherish institute in collaboration with department of home science, Anna Adarsh College on 11th August 2010

Grants received: Nil.

Projects guided:

UG – 45 students

PG – 07 students

Papers presented in conference (Only numbers): 5

Publication: (Only numbers)

National: 20

International: 9

Books/chapters published: 1/2

Patent: 1 Published