


Name	Dr. R. SUREKHA		
Designation	Lecturer		
Date of Birth	17/06/1990		
Address	D206, Swara Apartments, Balaji Nagar 1 st Street, Iyyapanthangal, Chennai - 89		
Ph.D	College	Dr. ALM Post Graduate Institute of Basic Medical Sciences	
	University	University of Madras	
	Year of passing	2019	
M.Sc.	College	Dr. ALM Post Graduate Institute of Basic Medical Sciences	
	University	University of Madras	
	Year of Passing	2012	
B	College	Dr. ALM Post Graduate Institute of Basic Medical Sciences	
	University	University of Madras	
	Year of Passing	2010	
Professional Developments	Name of the post held	Period	Department & Institution
	Lecturer	February 2020 to April 2023	Department of Biochemistry, SRM Dental College, Ramapuram

	Lecturer	February 2020 to April 2023	Department of Biochemistry, SRM Dental College, Ramapuram
	Temporary Assistant Professor	November 2019 to February 2020	Department of Microbiology, Madras Christian College, Tambaram

Publications

1. Surekha R, Sumathi T (2021). Thymoquinone-loaded Solid lipid nanoparticles exhibit cytoprotective effect against 3-Nitropropionic acid exposed changes in SHSY-5Y Neuroblastoma cells. *IJPBS*. 11(4): 76-87.
2. Sumathi T, Aishwarya V, Surekha R, Bhagyalakshmi P (2018). Quinolinic acid-induced Huntington disease-like symptoms mitigated by potent free radical scavenger Edaravone - A pilot study on Neurobehavioral, Biochemical, and Histological approach in male Wistar rats. *J. Mol. Neurosci*. 66(3), 322-341 [IF: 2.67].
3. Sumathi T, Aishwarya V, Surekha R, Bhagyalakshmi P (2018). Neuromodulatory effect of *Cynodon dactylon* on cuprizone (cpz) induced multiple sclerosis in Wistar rat corpus collusum- A pilot study on Cognitive, Biochemical and Histopathological approach. *Int. J. Pharma Biol. Sci*. 8(3), 149-166 [Scopus Indexed].
4. Surekha R, Sumathi T (2018). Thymoquinone loaded solid lipid nanoparticles counteracts 3-Nitropropionic acid induced motor impairments and neuroinflammation in rat model of Huntington's disease. *Metab. Brain Dis*. 33(5); 1459-1470 [IF: 2.72].
5. Surekha R, Sumathi T (2016). An efficient encapsulation of Thymoquinone using Solid lipid nanoparticle for brain targeted drug delivery: Physicochemical characterization, Pharmacokinetics and Bio-distribution studies. *IJPCR* 8(12); 1616-1624.
6. Sumathi T, Surekha R, Priya K (2016). Chrysin exerts neuroprotective effects against 3-Nitropropionic acid induced behavioral despair—Mitochondrial dysfunction and striatal apoptosis via upregulating Bcl-2 gene and downregulating Bax-Bad genes in male Wistar rats. *Biomed. Pharmacother*. 84; 514-525 [IF: 4.54].
7. Surekha R, Sumathi T (2016). A novel therapeutic application of Solid lipid nanoparticles encapsulated Thymoquinone (TQ-SLNs) on 3-Nitropropionic acid induced Huntington's disease-like symptoms in Wistar rats. *Chem-Biol. Interact*. 256; 52-36 [IF: 3.72].
8. Aishwarya V, Surekha R, Sumathi T (2015). Preparation, Characterization and In-vitro cell viability assay of Chrysin loaded Solid Lipid Nanoparticles as Drug Delivery System. *Int. J. Pharma Bio. Sci*. 6(1); 465-478 [Scopus Indexed].
9. Surekha R, Aishwarya V, Sumathi T (2015). Thymoquinone loaded Solid Lipid Nanoparticle: Formulation, Characterization, and In-vitro cell viability assay. *Int. J. Pharma. Bio. Sci*. 6(1); 449-464 [Scopus Indexed].
10. Sumathi T, Shobana C, Mahalakshmi V, Surekha R, Subathra M, Vishali A, Rekha K (2013). Oxidative Stress in brains of male rats intoxicated with Aluminium and Neuromodulating effect of *Celastrus paniculatus* alcoholic seed extract. *Asian J. Pharm. Clin. Res*. 6(3); 80-90.

Papers / Posters/ Guest lecturers presented

1. Paper presentation on “Sesquiterpene coumarins of Asafoetida mask the functional site of pathogenic proteins of SARS-CoV2 to combat COVID-19 disease – A Pilot study” in the International Conference on “Neoperspectives in Biochemical, Chemical & Microbial Techniques” organized by IQAC, Department of Biochemistry, Chemistry, & Microbiology, Annai Violet Arts & Science College, Chennai held on 20th & 21st February 2024.
2. Paper presentation on “Portulaca oleracea ethanolic extract ameliorates Colchicine-induced cognitive impairment and oxidative stress in rats: A potential therapeutic approach for Alzheimer’s disease” in the National Conference on “Transforming Healthcare: Advances in Bioinformatics & Biological Sciences (ABBS 2024)” organized by the Department of Bioinformatics, Sathyabama Institute of Science & Technology, Chennai held from 13th to 15th February 2024.
3. Paper Presentation on “Thymoquinone-loaded Solid Lipid Nanoparticles mitigate 3-Nitropropionic acid induced mitochondrial dysfunction and oxidative damages via PGC-1 α /Nrf2 pathway” in “The Research Day 2022” organized by SRM Institute of Science and Technology, Kattankulathur held on 23.02.2022.
4. E-Poster Presentation on “Thymoquinone-loaded Solid Lipid Nanoparticle elicits antioxidant effect against 3-Nitropropionic acid induced Huntington’s Disease” in the International Virtual Conference on “Infectious Diseases in an era of Vaccines” organized by the Department of Biochemistry, Dwaraka Doss Goverdhan Doss Vaishnav College, Arumbakkam, Chennai held on 18th & 19th October 2021.
5. E-Poster Presentation on “Wonder Brick - P-Block 2.0” in the International Virtual Conference on “Chemical Research for Sustainable Development (ICCRSD – 2021)” organized by the Department of Chemistry, SRM Institute of Science and Technology, Ramapuram Campus, Chennai held on 24th & 25th September 2021.
6. E-Poster Presentation on “Thymoquinone loaded Solid lipid nanoparticles exhibit Mitochondrial Biogenesis regulation in 3-Nitropropionic acid induced Huntington’s disease” in the International Virtual Conference on “Recent Advances in Biochemical and Material Sciences 2020” organized by IQAC, Department of Chemistry, Physics and Biochemistry, Annai Violet Arts and Science College, Chennai held on 24th & 25th November 2020.
7. E-Poster Presentation on “In silico approach of thymoquinone interaction with specific proteins involved in aggregation and progression of Huntington’s disease” in the International Virtual Conference on “Innovative Research in Chemical Sciences (IRCS-2020)” organized by the Department of Chemistry, SRM Institute of Science and Technology, Ramapuram Campus, Chennai held on 29th & 30th June 2020.
8. E-Paper Presentation on “Cytoprotective effect of Thymoquinone loaded Solid lipid nanoparticles (NanoTQ) on 3-Nitropropionic acid exposed SH-SY5Y neuroblastoma cells” in the International Virtual Conference on “Science Technology Research and Innovation” organized by The Universitas Negeri Semarang (UNNES), Semarang, Central Java, Indonesia held on 17th June 2020.
9. Paper Presentation on “Ameliorative effect of Thymoquinone encapsulated Solid lipid nanoparticle (TQ-SLNs) against 3-Nitropropionic acid induced pro-oxidative damages in the striatum of male Wistar rats: Implications in Huntington’s disease” in International conference on “Recent Trends in Biosciences (ICRTB-2016)” organized

by Biosciences Departments, Alagappa University, Karaikudi held from 07th – 09th April 2016.

Achievements and Awards

1. Second Position in Research Article Presentation & Cash Prize at the National Conference on “Transforming Healthcare: Advances in Bioinformatics & Biological Sciences (ABBS 2024)” organized by the Department of Bioinformatics, Sathyabama Institute of Science & Technology, Chennai held from 13th to 15th February 2024.

2. Best Poster Presentation Award & Cash Prize for E-Poster in the International Virtual Conference on “Infectious Diseases in an Era of Vaccines” organized by the Department of Biochemistry, Dwaraka Doss Goverdhan Doss Vaishnav College, Arumbakkam, Chennai held on 18th & 19th October 2021.

3. Best Presentation Award for E-Poster in the International Virtual Conference on “Recent Advances in Biochemical and Material Sciences 2020” organized by IQAC, Department of Chemistry, Physics and Biochemistry, Annai Violet Arts and Science College, Chennai held on 24th & 25th November 2020.

4. Best Paper Award (Poster) in the International Virtual Conference on “Innovative Research in Chemical Sciences (IRCS-2020)” organized by the Department of Chemistry, SRM Institute of Science and Technology, Ramapuram Campus, Chennai held on 29th & 30th June 2020.

5. Sr. Professor K. Radha Shanmugasundaram Endowment Medal from University of Madras for being recognized as a “Best Ph.D. Thesis” from the Department of Medical Biochemistry for the year 2019.

6. Junior Research fellowship under UGC-BSR Research Fellowships in Science from the year 2015 – 2017.

7. Late. Shri. Chandrasekaran Endowment Prize from the Department of Biochemistry, Bhaktavatsalam Memorial College for Women, Chennai in the year 2010.

8. General Proficiency Prize from the Department of Biochemistry, Bhaktavatsalam Memorial College for Women, Chennai for the year 2007 – 2010.

