


Name in Full (Capital Letters)			
Designation		Dr. A. SUDHA Assistant Professor, Dept. of Biotechnology.	
E.mail – ID		abisudhaa@yahoo.co.in	
Academic Qualification		M.Sc., M.Phil., PGDBI., Ph.D	
Area of Specialization		Phytochemistry, Cancer Biology, Computer aided drug designing (CADD)	
Experience	Teaching	UG	4 years 10 months
		PG	7 years 10 months
	Research	6 years	
Research Guidance	Ph.D	-	
	M.Phil	6 (Bharathidasan University, Periyar University, M.S.University)	
Research Projects	Ongoing	-	
	Completed	One. Title: Biological evaluation and in silico analysis of medicinal plant derived bioactive compounds (Lippia nodiflora and Anisomeles malabarica) with anti-inflammatory activity. Funding agency- DST women’s scientists scheme (WOS-A)	
Membership in Professional bodies		<ul style="list-style-type: none"> • Member, International Natural Product Sciences Taskforce (INPST) 	

	<ul style="list-style-type: none"> • Editorial Board Member- American Journal of Biomedical and Life Sciences <p>Journal Reviewer:</p> <ul style="list-style-type: none"> • Reviewer- Pakistan Journal of Nutrition • Technical editor -Research Journal of Phytochemistry • Technical editor -American Journal of Biochemistry and Molecular Biology • Technical editor- Trends in Bioinformatics • Technical editor- Pakistan Journal of Biological Sciences • Technical editor- Asian Journal of Biological Sciences
<p>Achievements if any</p>	<ul style="list-style-type: none"> • An invited lecture has been delivered on the topic-“Concepts and applications of <i>in-silico</i> methods” at Srimad Andavan Arts and Science College, Tiruchirapalli on Digital learning Day 2K19, conducted by PG & Research Department of Life Sciences on 18th September, 2019. • Acted as a resource person in the “National level conference on Applications of Molecular Biology Techniques and Computational Approaches in Disease Diagnosis, Prevention and Therapy”- AMBT-2019” and delivered an invited talk on the topic “Computational Methods in the Development of Drug Molecules”, organized by the Department of Biochemistry, Government Arts College, Paramakudi on 20th and 21st December -2019.

Seminar/Conference/Workshop	Organized	Attended
National	1	28
International	-	12

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Publications

International		National		Others
Journals	Conference	Journals	Conference	Books/Chapters
19	9	8	14	-

List of Publications:

1. N.S. Alharbi, M. Govindarajan, S. Kadaikunnan, J. M. Khaled, T. N. Almanaa, S. A. Alyahya, M. N. Al-anbr, K. Gopinath, A. Sudha, 2018. Nanosilver crystals capped with Bauhinia acuminata phytochemicals as new antimicrobials and mosquito larvicides. *Journal of Trace Elements in Medicine and Biology*, 50: 146-153 (IF: 3.75).
2. Sudha, P. Srinivasan, V. Kanimozhi, K. Palanivel, B. Kadalmani, 2018. Antiproliferative and apoptosis-induction studies of 5-hydroxy 3', 4', 7-trimethoxyflavone in human breast cancer cells MCF-7: an in vitro and in silico approach. *Journal of Receptors and Signal Transduction*, 1-12 (IF: 1.77).
3. Sudha, J. Jeyakanthan, P. Srinivasan, 2017. Green synthesis of silver nanoparticles using Lippia nodiflora aerial extract and evaluation of their antioxidant, antibacterial and cytotoxic effects. *Resource Efficient Technologies*, 3: 506-515.
4. K. Gopinath, M. Chinnadurai, N. Parimala Devi, K. Bhakayaraj, S. Kumaraguru, T. Baranisri, A. Sudha, M. Zeeshan, A. Arumugam, M. Govindarajan, N.S. Alharbi, S. Kadaikunnan, G. Benelli, 2016. One-pot synthesis of dysprosium oxide nano-sheets: antimicrobial potential and cytotoxicity on A549 lung cancer cells. *Journal of Cluster Science*, 28: 621–635 (IF: 1.71).
5. K. Bhakayaraj, S. Kumaraguru, K. Gopinath, V. Sabitha, PR. Kaleeswarran, V. Karthika, A. Sudha, U. Muthukumar, K. Jayakumar, S. Mohan, A. Arumugam, 2016. Eco-Friendly synthesis of palladium nanoparticles using Melia azedarach leaf extract and their evaluation for antimicrobial and larvicidal activities. *Journal of Cluster Science*, 28: 463–476 (IF:1.71).
6. A. Sudha, J. Jeyakanthan, P. Srinivasan, 2016. Protective effect of 5-hydroxy-3',4',7-trimethoxyflavone against inflammation induced by lipopolysaccharide in RAW 264.7 macrophage: in vitro study and in silico validation. *Medicinal Chemistry Research*, 25:1754-1767 (IF:1.60).

7. V. Thamilarasan, N. Sengottuvelan, A. Sudha, P. Srinivasan, G. Chakkaravarthi, 2016. Cobalt (III) complexes as potential anticancer agents: Physicochemical, structural, cytotoxic activity and DNA/Protein interactions. *Journal of Photochemistry and Photobiology B: Biology*, 162: 558-569 (IF: 3.16).
8. A. Sudha, P. Srinivasan, V. Thamilarasan, N. Sengottuvelan, 2016. Exploring the binding mechanism of 5-hydroxy- 3',4',7- trimethoxyflavone with bovine serum albumin: Spectroscopic and computational approach. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 157 (15): 170-181 (IF: 2.88).
9. A. Sudha and P. Srinivasan, 2015. In vitro, Fluorescence quenching and Computational studies on the interaction between lipoxygenase and 5-hydroxy-3',4',7- trimethoxyflavone from *Lippia nodiflora* L. *Journal of Receptors and Signal Transduction*, 35(6): 569-577 (IF: 1.77).
10. V. Thamilarasan, N. Sengottuvelan, A. Sudha, P. Srinivasan, A. Siva, 2015. Synthesis, molecular structure, theoretical calculation, DNA/protein interaction and cytotoxic activity of manganese (III) complex with 8-hydroxyquinoline. *Journal of Photochemistry and Photobiology B: Biology*, 142: 220-231 (IF: 3.16).
11. A. Sudha and P. Srinivasan, 2014. Bioassay-guided isolation and antioxidant evaluation of flavonoid compound from aerial parts of *Lippia nodiflora* L. *BioMed Research International*, 2014: 549836 (IF: 2.58).
12. A. Sudha, P. Srinivasan, P. Rameshthangam, 2014. Exploration of potential EGFR inhibitors: a combination of Pharmacophore-based virtual screening, atom-based 3D-QSAR and molecular docking analysis. *Journal of Receptors and Signal Transduction*, 29:1-12 (IF: 1.77).
13. A. Sudha and P. Srinivasan, 2014. Bioassay-guided isolation, identification and molecular ligand-target insight of lipoxygenase inhibitors from leaves of *Anisomeles malabarica* R.Br. *Pharmacognosy Magazine*, 10 (39): 596-605 (IF: 1.52).
14. P. Srinivasan, P. Chellaperumal, A. Sudha. 2014. Discovery of novel inhibitors for Nek6 protein through homology model assisted structure based virtual screening and molecular docking approaches. *The Scientific World Journal*, doi:10.1155/2014/967873.
15. V. Suryanarayanan, A. Sudha, S. Rajamanikandan, R. Vanajothi & P. Srinivasan, 2013. Atom-based 3D QSAR studies on novel N- β -D-Xylosylindole derivatives as SGLT2 inhibitors. *Medicinal Chemistry Research*, 22(2): 615-624 (IF: 1.60).
16. A. Sudha and P. Srinivasan, 2013. Physicochemical and Phytochemical profiles of aerial parts of *Lippia nodiflora* L. *International Journal of Pharmaceutical Sciences and Research*, 4(11): 4263-4271.

17. A. Sudha, K. Sumathi, S. Manikandaselvi, NM. Prabhu, P. Srinivasan, 2013. Anti-hepatotoxic activity of crude flavanoid fraction of *Lippia nodiflora* L. on ethanol induced liver injury in rats. *Asian Journal of Animal Sciences*, 7(1): 1-13.
18. S. Rajamanikandan, R. Vanajothi, A. Sudha, P. Rameshthangam, P. Srinivasan, 2012. In silico analysis of deleterious SNPs of the *FGFR2* gene. *Journal of Biological Sciences*, 12(2): 83-90.
19. P. Srinivasan, A. Sudha, N. Umamaheswari, R. Vanajothi, P. Rameshthangam, 2012. Modeling of quorum sensing regulatory protein of *Vibrio harveyi* from shrimp aquaculture system and in silico prediction of active drugs. *International Journal of Current Science*, 2: 5-13.
20. R. Vanajothi, S. Rajamanikandan, A. Sudha, P. Srinivasan, 2012. Structural and functional analysis of *KIT* gene encoding receptor tyrosine kinase and its interaction with sunitinib and HDAC inhibitors: An in silico approach. *Pakistan Journal of Biological Sciences*, 15 (3): 121-131.
21. A. Sudha, P. Srinivasan, N. S. Manikandaselvi, R. Thinagarbabu, 2012. Protective effect and antioxidant role of *Achyranthus aspera* L. against ethanol-induced oxidative stress in rats. *International Journal of Pharmacy and Pharmaceutical Sciences*, 4(3): 280-284.
22. R. Vanajothi, A. Sudha, P. Srinivasan, R. Manikandan , P. Rameshthangam, 2012. *Luffa acutangula* and *Lippia nodiflora* leaf extract induces growth inhibitory effect through induction of apoptosis on human lung cancer cell line. *Biomedicine and Preventive Nutrition*, 2(4): 287-293.
23. P. Srinivasan, A. Sudha, R. Manikandan, C. Arulvasu, 2011. Molecular docking studies of 1, 2 disubstituted idopyranose from *Vitex negundo* with anti-diabetic activity of Type 2 diabetes. *International Journal of Pharma and Bio sciences*, 2(1): B-68-83.
24. P. Srinivasan, A. Sudha, A. Shahul Hameed S. Prasanth Kumar, M. Karthikeyan, 2011. Screening of medicinal plants for inhibitors of NS5B polymerase of hepatitis C virus (HCV) using molecular docking studies. *Journal of Pharmacy Research*, 4(1): 136-140.
25. N. Rameshkannan, A. Sudha, A. Manimaran, D. Saravanan, E. Natarajan, 2011. Beneficial effect of *Bacopa Monnieri* extract on gentamicin induced nephrotoxicity and oxidative stress in albino rats. *International journal of pharmacy and pharmaceutical sciences*, 3 (5): 144-148.
26. A. Sudha, P. Srinivasan, N. Rameshkannan, R. Vanajothi, 2010. Protective effects of *Achras zapota* Linn. seed extract in carbon tetrachloride induced hepatotoxicity in rats. *Inventi Impact: Ethnopharmacology*, 1(2): 1-3. "Inventi: ep/136/10", 2010

27. P. Srinivasan, A. Sudha, P. Bharathajothi, K. Rajaguru, P. Rameshthangam, R. Manikandan, C. Arulvasu, 2010. Effects of anti-inflammatory and antipyretic activity of *Anisomeles malabarica* R.Br. *Journal of Pharmacy Research*, 3 (7): 1598-1601.