

DR. SHOBA NARAYAN

Assistant Professor (Selection Grade)
Faculty of Allied Health Sciences
Chettinad Hospital & Research Institute
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Qualifications:

Ph.D., University of Madras
M.Phil., University of Madras
M.Sc., Annamalai University

Research Interests:

Nanomedicine, Biochemistry, Targeted Drug Delivery, Natural Product Therapeutics, Multifunctional Nanostructures

Work Experience:

2014 – 2015 : Assistant Professor (Sr. Scale), FAHS, CHRI, CARE (Emp Id: 4052)
2015 – : Assistant Professor (Selection Grade), FAHS, CHRI, CARE (Emp Id: 4052)

Post-Doc:

2011 – 2014 : FASTTRACK DST Young Scientist, Indian Institute of Technology, Madras (Emp id: 327922)
2008 – 2009 : Postdoctoral Trainee in Bionanotechnology, University of Oklahoma, USA (Id: 113875386)

Visits Abroad:

Department of Chemistry and Biochemistry, University of Oklahoma, USA
The third International Conference on Multifunctional, Hybrid and Nanomaterials (Hybrid Materials 2013) was held on March 3-7, 2013 in Sorrento, Italy.

Extramural projects ongoing/completed:

Sr. No.	Funding Agency	Sanctioned Amount in Rs.
1.	Dept. of Science and Technology, Govt. of India (PI)	2600000.00
2.	Dept. of Atomic energy, BRNS, India (Co-PI)	2431000.00
3.	ICMR-SRF	Fellowship and Contingency

Research Guidance :

Degree	Awarded	Ongoing
Ph. D.	-	2
M. Phil.	-	-
M. Sc.	5	2

Summary of Research :

Papers	Citations	h-index	i10-index
17	359	10	10

Patents

S.no	Title	Application Number	Inventors
1	A method and process for the efficacy enhancement of activities of Bioflavonoids.	201741001089	Satish R, Narayan S , Surajit P, Lizha Mary L
2	Polymeric matrix containing metal doped ceramic for tissue engineering	201741001091	Moorthi A, Narayan S , Azeena S, Srinivasan N, Murugesan R
3	A method and development of a nanoscaffold for delivery of agents for stem cell differentiation	201741001087	Narayan S , Surajit P, Karena R, Moorthi A, Sinivasan N, Murugesan R
4	Design Development and Use of pH - Sensitive multifunctional gold nanorods	201841000245	Narayan S , Rathi Usha K, Geeva

GenBank Submissions :

Nil

Publications :

1. L. Mary Lazer, B. Sadhasivam, K. Palaniyandi, T. Muthuswamy, I. Ramachandran, A. Balakrishnan, S. Pathak, **S. Narayan**, S. Ramalingam, Chitosan-based nano-formulation enhances the anticancer efficacy of hesperetin. International Journal of Biological Macromolecules. in press doi: 10.1016/j.ijbiomac.2017.10.064 (2017). **IF 3.67**
2. M. Vedhanayagam, M. Nidhin, N. Duraipandy, N. D. Naresh, G. Jaganathan, M. Ranganathan, M. S. Kiran, **S. Narayan**, B. U. Nair, K. J. Sreeram. Role of nanoparticle size in self-assemble processes of collagen for tissue engineering application. International Journal of Biological Macromolecules. 99:655-64 doi: 10.1016/j.ijbiomac.2017.02.102. (2017). **IF 3.67**

3. S. Azeena, N. Subhapradha, N. Selvamurugan, **S. Narayan**, N. Srinivasan, R. Murugesan, T. W. Chung, A. Moorthi. Antibacterial activity of agricultural waste derived wollastonite doped with copper for bone tissue engineering. *Materials Science & Engineering C-Materials for Biological Applications*.71:1156-65 /doi.org/10.1016/j.msec.2016.11.118 (2017). **IF 4.16**
4. S. Venkataraman, **S. Narayan**, A. Chadha. Direct observation of redox reactions in *Candida parapsilosis* ATCC 7330 by Confocal microscopic studies. *Scientific Reports*.6: 34344 doi: 10.1038/srep34344 (2016). **IF 4.25**
5. S. Krishnan, **S. Narayan**, A. Chadha. Whole resting cells vs. cell free extracts of *Candida parapsilosis* ATCC 7330 for the synthesis of gold nanoparticles. *AMB Express*. 6(1):92 doi: 10.1186/s13568-016-0268-y (2016). **IF 1.82**
6. **S. Narayan**, A. Rajagopalan, J. S. Reddy, A. Chadha. BSA binding to silica capped gold nanostructures: effect of surface cap and conjugation design on nanostructure-BSA interface. *RSC Advances*. 4(3):1412-20 doi: 10.1039/C3RA45887C (2014). **IF 3.10**
7. K. J. Sreeram, **S. Narayan**, G. Abbineni, A. Hayhurst, C. Mao. Architectonics of Phage-Liposome Nanowebs as Optimized Photosensitizer Vehicles for Photodynamic Cancer Therapy. *Molecular Cancer Therapeutics*. 9(9):2524-35 doi: 10.1158/1535-7163 (2010). **IF 5.76**
8. S. Prabhu, **S. Narayan**, C. S. S. Devi. Mechanism of Protective Action of Mangiferin on Suppression of Inflammatory Response and Lysosomal Instability in Rat Model of Myocardial Infarction. *Phytotherapy Research*. 23(6):756-60 doi: 10.1002/ptr.2549 (2009). **IF 3.09**
9. P. Srinivasan, S. Suchalatha, P. V. A. Babu, R. S. Devi, **S. Narayan**, K. E. Sabitha, C. S. S. Devi. Chemopreventive and therapeutic modulation of green tea polyphenols on drug metabolizing enzymes in 4-Nitroquinoline 1-oxide induced oral cancer. *Chemico-Biological Interactions*. 172(3):224-34 doi: 10.1016/j.cbi.2008.01.010 (2008). **IF 3.14**
10. **S. Narayan**, M. Veeraraghavan, C. S. S. Devi. *Pterocarpus santalinus*: An in vitro study on its anti-*Helicobacter pylori* effect. *Phytotherapy Research*. 21(2):190-3 doi: 10.1002/ptr.2047 (2007). **IF 3.092**
11. **S. Narayan**, R. S. Devi, V. Ganapathi, C. S. S. Devi. Effect of *Pterocarpus santalinus* extract on the gastric pathology elicited by a hypertensive drug in Wistar rats. *Pharmaceutical Biology*. 45(6):468-74 doi: 10.1080/13880200701389342 (2007). **IF 1.91**
12. **S. Narayan**, R. S. Devi, C. S. S. Devi. Role of *Pterocarpus santalinus* against mitochondrial dysfunction and membrane lipid changes induced by ulcerogens in rat gastric mucosa. *Chemico-Biological Interactions*. 170(2):67-75 doi: 10.1016/j.cbi.2007.07.005 (2007). **IF 3.14**
13. R. S. Devi, **S. Narayan**, G. Vani, P. Srinivasan, K. V. Mohan, K. E. Sabitha, C. S. S. Devi. Ulcer protective effect of *Terminalia arjuna* on gastric mucosal defensive mechanism in experimental rats. *Phytotherapy Research*. 21(8):762-7 doi: 10.1002/ptr.2160 (2007). **IF 3.09**
14. R. S. Devi, **S. Narayan**, G. Vani, C. S. S. Devi. Gastroprotective effect of *Terminalia arjuna* bark on diclofenac sodium induced gastric ulcer. *Chemico-Biological Interactions*. 167(1):71-83 doi: 10.1016/j.cbi.2007.01.011 (2007). **IF 3.14**
15. **S. Narayan**, R. S. Devi, P. Srinivasan, C. S. S. Devi. *Pterocarpus santalinus*: A traditional herbal drug as a protectant against ibuprofen induced gastric ulcers. *Phytotherapy Research*. 19(11):958-62 doi: 10.1002/ptr.1764 (2005). **IF 3.09**
16. **S. Narayan**, R. S. Devi, M. Jainu, K. E. Sabitha, C. S. S. Devi. Protective effect of a polyherbal drug, ambrex in ethanol-induced gastric mucosal lesions in experimental rats. *Indian Journal of Pharmacology*. 36(1):34 (2004). **IF 0.63**
17. R. S. Devi, **S. Narayan**, K. Vijai Mohan, K. E. Sabitha, C. S. S. Devi. Effect of a polyherbal formulation, Ambrex, on butylated hydroxy toluene (BHT) induced toxicity in rats. *Indian Journal of Experimental Biology*. 2003;41(11) (2003). **IF 0.59**

General Articles:

NIL

Conference Presentations:

15 International and 25 National

Conferences / Workshops Organised:

2 National and 1 Regional

Awards and Recognition:

1. ICMR SRF fellowship (No. 45/14/2004/BMS/TRM)
2. DST Travel Grant (SR/ITS/4822/2012-13)
3. ICMR Travel Grant (No.3/2/TG-37/HRD-2013 dated 19-2-2013)
4. CSIR travel Grant (PFA/1443/12-HRD dated February 28 2013)
5. DST FAST TRACK Young Scientist Award Fellowship and project (No/SR/FT/CS-100/2010(G))
6. Cover page article in Molecular Cancer Therapeutics
(<http://mct.aacrjournals.org/content/9/9/2524.long>)