



**Dr. S. Nagalakshmi**  
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PhD/Post Doc supervision slots available:1

**Personal Profile:**

- Completed B. Pharm from K.M college of Pharmacy, Madurai, M.Pharm from Madurai Medical college, and Ph.D in Sri Ramachandra Institute of Higher Education and Research (DU), Porur, Chennai. Guided 40 UG students and 30 PG students and Guiding 5 Ph.D Scholars.
- An academican, aspiring to excel in the field of novel drug delivery system, especially in the area of ocular, transdermal and novel drug delivery. Other areas of interest are nanotechnology , Targeted drug delivery, Development of biomaterials (Scaffolds) for corneal tissue engineering etc.
- Doctoral research work was based on Design, development and characterization of a novel Niosomal in situ gel delivery system which had strengthened my proficiency in this area to acquire extramural grants.
- Received grant of Rs 22 lakhs from DRDO- LSRB for the project entitled "Stimuli sensitive hydrogels in ocular drug delivery system.(2014-2017) .published quiet a lot of research articles in impact factor National and International Journals. "(36 Publications ).Currently Associate Professor, Department of Pharmaceutics, Sri Ramachandra Faculty of Pharmacy. More than 14 years of experience in teaching and research.

**Research Interests:**

- Ocular drug delivery system,
- Targeted drug delivery system,
- Transdermal dermal drug delivery systems,
- Self microemulsifying drug delivery systems,
- Nanoparticles and nanotechnology
- Biomaterial development & Films
- Vesicular drug delivery system

**Patent:** Filed: 03

**Team Members:**

S. No	NAME OF THE MEMBER	PROJECT TITLE
1.	Abarnadevika. K,	Formulation and characterization of nanoparticle for diabetic wound healing
2.	Jinsha.P	Formulation and development of biomaterials for wound healing
3.	Senthilraja	Fabrication of soft gel capsule for bio enhanced activity
4.	Rajasekhar	Formulation development and Evaluation of chewable Softgel capsules containing poorly Soluble drug and its in vivo evaluation.
5.	P. Jyothi	Formulation development of in-situ hydrogels for oral administration

**Key Publications:**

- Bhattacharjee S, Nagalakshmi S, Shanmuganathan S. Design, development and evaluation of mucoadhesive film for water insoluble drug using different plasticizers. IJPPS. 2014;6 (3):107- 10 <https://api.semanticscholar.org/CorpusID:30081927>
- Nagalakshmi, Anbarasan, Ramesh, Thanka, Shanmuganathan. Formulation and Characterization of pH based stimuli sensitive based Hydrogels for the treatment of ocular infection. J Young Pharm. 2018;10(1):32-36 DOI:[10.5530/jyp.2018.10.2](https://doi.org/10.5530/jyp.2018.10.2)
- Sethuraman Nagalakshmi, Shanmuganathan S, Sandhya K, Anbarasan B. Design, development and characterization of nano structured lipid carrier for topical delivery of aceclofenac. IJPER. 2018; 52(4):581-86 DOI: 10.5530/ijper.52.4.67
- Nagalakshmi Sethuraman. Artificial Intelligence: A New paradigm for Pharmaceutical applications in Formulations Development. IJPER 2020; 54(4):843846 DOI: 10.5530/ijper.54.4.176
- Allan Joshua I, Asha M, Shanmuganathan S and Nagalakshmi S\* .Fabrication and Characterization ofDrug Loaded Scaffolds for Corneal Tissue Engineering, Journal of Pharmaceutics and Drug Delivery Research 2023, 12:3:1-8. DOI: 10.4172/2325-9604.1000019