

## FACULTY DATABASE



Name: **Dr.S. NANDHAKUMAR**  
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Area: Pharmacy

Affiliation: Dr.M.G.R. Educational and Research Institute, Deemed to be University, Maduravoyal, Chennai – 600095, Tamil Nadu

### EDUCATION

Sl.No.	Course	Department	Affiliation
1	Ph.D	Pharmaceutical Sciences	Jawaharlal Nehru Technical University, Hyderabad.
2	M.Pharm	Pharmaceutics	Vel's College of Pharmacy, The Tamilnadu Dr. MGR Medical University, Chennai
3	B.Pharm	-	Vel's College of Pharmacy, The Tamilnadu Dr. MGR Medical University, Chennai

### OTHER DETAILS

#### Courses:

- Professional Diploma in Clinical Research (PDCR)
- Professional certificate in Pharmacovigilance (PCPV)
- Diploma in Computer Applications (DCA)

#### Research Interest:

- Surface engineering of Nanoparticle drug delivery systems
- Development of Novel Drug Delivery systems
- Formulation of Colloidal drug delivery systems for Cancer chemotherapy

## **Publications**

### ***Published Papers***

**S. Nandhakumar**, G. Sugreevudu, N. Harikrishnan. Formulation design and Evaluation of Extended-Release Tablets of Oxybutynin for Effective Management of Overactive Bladder Syndrome. *Research J. Pharm. and Tech.* 14(12): December 2021 (In Print)

**NandhaKumar S**, Pavan Kumar C, Santhivardhan C. Plausible role of combination of Chlorpromazine hydrochloride and Teicoplanin against COVID-19. *Medical Hypothesis.* 2020, 144; 110011.

Gomathi GD, Gopalakrishnan G, Uma, Shifa F, **Nandhakumar S**, Dhanalakshmi S. Novel Peroxide Peroxide Gel for Management of Stage II Periodontitis. *Journal of Pharmaceutical Sciences and Research.* 2020, 12 (3); 452-456.

Gomathi GD, Gopalakrishnan G, Uma S, **Nandhakumar S**, Harikrishnan N, Nimisha. Effect of a Novel PolyHerbal Mouthwash on Dental Biofilm Induced Gingivitis. *Journal of Pharmaceutical Sciences and Research.* 2020, 12(1); 43-48

Vivekanandan. K, Dr. Harikrishnan. N, Bhavya. E, Babu P, **Nandhakumar.S**. Formulation and Evaluation of Floating Drug Delivery of an Anti-Hypertensive Drug. *Research J. Pharm. and Tech.*, 2018, 11(11); 4785-4796

**Nandhakumar Sathyamoorthy**, Dhanaraju Magharla, Pavankumar Chintamaneni, Sundar Vankayalu. Optimization of paclitaxel loaded poly ( $\epsilon$ -caprolactone) nanoparticles using Box Behnken design. *Beni-Suef University Journal of Basic and Applied Sciences*, 2017, 6, 362-373.

**Nandhakumar Sathyamoorthy**, Dhanaraju Dasaratha Magharla, Sundar Devendaran Vankayalu. Effect of Surface Modification on the In vitro Protein Adsorption and Cell Cytotoxicity of Vinorelbine Nanoparticles. *Journal of Pharmacy and Bioallied Sciences*, 2017, 9, 135-143.

**Nandhakumar Sathyamoorthy**, Pavankumar Chintamaneni, Sundar D. Vankayalu & Dhanaraju D. Magharla. Biodegradable Polymeric Carrier for Antineoplastic Drugs. Characterization and Sequence Based Cytotoxicity. *Lat. Am. J. Pharm.* 2017; **36** (7): 1473-82.

**Nandhakumar S**, Dhanaraju MD, Sundar VD, Heera B. Influence of surface charge on the in vitro protein adsorption and cell cytotoxicity of paclitaxel loaded poly ( $\epsilon$ -caprolactone) nanoparticles. *Bulletin of Faculty of Pharmacy, Cairo University.* 2017; 55(2): 249-58.

Siddhartha VT, Saikiran SSP, Pavankumar C, Shashank T, **Nandhakumar S**. Rage Receptor targeted bioconjugate lipid nanoparticles of diallyl disulfide for improved apoptotic activity in triple negative breast cancer: In vitro Studies. *Artificial cells, Nanoparticles and Biotechnology*, 2017. <http://dx.doi.org/10.1080/21691401.2017.1313267>

**Nandhakumar S**, Dhanaraju DM. Clinical Implications of Molecular PEGylation on Therapeutic Proteins. J Basic Clin Pharma 2017; 8:87-90.

**Nandhakumar Sathyamoorthy**, Magharla Dasartha Dhanaraju. Shielding Therapeutic Drug Carriers from Mononuclear Phagocyte System – A Review on Evasion of Phagocytosis. Critical Reviews™ in Therapeutic Drug Carrier Systems. 2016, 33(6): 489-567.

Vankayalu Devendiran Sundar, Magharla Dasaratha Dhanaraju and **Nandhakumar Sathyamoorthy**. Preparation and characterization of anastrozole loaded magnetic poly (epsilon-caprolactone) microspheres for anticancer activity. Der Pharmacia Lettre, 2016, 8 (10):118-128

S.Princely, N. Saleem Basha, **S. Nandhakumar** and M. D. Dhanaraju. Design and evaluation of controlled release gentamycin incorporated gelatin alginate matrices for wound management. Der Pharmacia Lettre, 2015, 7 (1):145-153

VD Sundar, MD Dhanaraju, **Nandhakumar S**. Fabrication and characterization of etoposide loaded magnetic polymeric microparticles. International Journal of Drug Delivery. 2014; 6: 24-35.

**Nandhakumar S**, Vijayalakshmi R, Naveena VSH, MD Dhanaraju. An approach for validated RP-HPLC method for the analysis of paclitaxel in rat plasma. Journal of Applied Pharmaceutical Science. 2014; 4(9): 73-76.

VD Sundar, **Nandhakumar S**, M Madhuri, MD Dhanaraju. Preparation and Evaluation Of Ethyl Cellulose Microspheres of Pioglitazone Hcl For Sustained Drug Delivery. Int J Pharm Tech Res. 2014; 4(1): 189-193.

M. Madhavi Latha, V. D. Sundar, **S. Nandhakumar**, MD DhanaRaju. Design and Evaluation of Sustained Release Tablets containing Solid dispersion of Ziprasidone hydrochloride. International Journal of PharmTech Research. 2014; 6(3): 959-968. (IF:0.66)

Ankalu Das, **Nandhakumar Sathyamoorthy**, Devalarao Garikapati. Development of Enteric Coated Pantoprazole Tablets with an Aqueous Based Polymer. International Journal of ChemTech Research. 2013, 5(5), 2394-2404. (IF: 0.52)

Ankalu Das, **Nandhakumar Sathyamoorthy**, Devalarao Garikapati. Delayed Release Formulation of Pantoprazole Using Sureteric Aqueous Dispersion System. Der Pharmacia Lettre, 2013, 5 (5):175-186.

Somasundaram Ramachandran, **Sathyamoorthy Nandhakumar**, Magharla Dasartha Dhanaraju. Formulation and Characterization of Glutaraldehyde Cross-Linked Chitosan Biodegradable Microspheres Loaded with Famotidine. Tropical Journal of Pharmaceutical Research. 2011; 10 (3): 309-316. (IF: 0.62)

Formulation and evaluation of extended release matrix tablets of metformin hydrochloride. M.D.Dhanaraju, **S.Nandhakumar**, R. Kamal Krishnan. Pharm Tech, 2011,2, 1-5.

Somasundaram Ramachandran, **Satyamoorthy Nandhakumar**, Magharla Dasaratha DhanaRaju. Development and in vitro Evaluation of Biodegradable Chitosan Microspheres Loaded with Ranitidine and Cross Linked with Glutaraldehyde. Int. J. PharmTech Res.2011, 3(1): 488-496.

Magharla Dasaratha Dhanaraju, **Nandhakumar Sathyamoorthy**, Vankayalu Devendiran Sundar, C. Suresh. Preparation of poly (epsilon-caprolactone) microspheres containing etoposide by solvent evaporation method. Asian Journal of Pharmaceutical Sciences 2010, 5 (3): 114-122.

Dhanaraju MD, **Nandhakumar S**, Omar. M. Formulation, Characterization and Biopharmaceutical Evaluation of Indomethacin Microspheres. International Journal of Biopharmaceutics. 1(2); 2010: 6-12.

Kumar raja. J, V.D.Sundar, AR.Magesh, **S.NandhaKumar**, M.D.Dhanaraju. International Journal of Pharmacy & Technology. 2010; 2(3):490-495.

S. Parimalakrishnan, V.D. Sundar, I. Ulaganathan, **S. Nandhakumar**, Akalanka Dey. Preliminary Toxicity Evaluation of Bidens pilosa Extracts Using Experimental Mice. Research J. Pharmacognosy and Phytochemistry 2010; 2(5): 397-402.

Dhanaraju MD, Sundar VD, **Nandhakumar S**, Bhaskar K. Development and evaluation of sustained release delivery of diclofenac sodium from Hydrophilicpolymeric beads. J Young Pharm. 2009; 1(4): 301-304.

S. Ramachandran, **S. Nandha Kumar**, M.D. Dhanaraju. Effect of *Aristolochia indica* on diuretics induced gout. Pharmacology online,2009, 1, 304-308.

S. Ramachandran, **S. Nandha Kumar**, M.D. Dhanaraju. Wound healing effect of herbal extract ointments using *Croton bonplandianum* and *Vitex negundo* leaf extracts. Int. J. Pharmacol. Biol. Sci., 2009, 3, 117-120.

### **Working Papers**

‘Self-Emulsifying DrugDelivery System – A Promising Approach for Enhancing Bioavailability of Drugs. International Journal ofPharmaceutical Sciences and Research.(*In communication*)

### **ACADEMIC EXPERIENCE – 15 years**

<b>S.No.</b>	<b>Name of the Institution/Industry</b>	<b>From</b>	<b>To</b>	<b>Years of Experience</b>
1	Faculty of Pharmacy, Dr. M.G.R. Educational and Research Institute, Chennai	18-05-2017	Till date	4 years 7 months
2	GIET School of Pharmacy, Rajahmundry	27-12-2006	13-05-2017	10 years 5months

## **PROJECTS:**

- Mentoring a project titled “**Med- Cartridge**” under NewGen IDEC funding from DST.
- Mentoring a project entitled “ **Aphonic Talkie**” under NewGen IDEC funding from DST.
- Co-Investigator of AICTE funded project under Research Promotion Schemes (RPS) entitled “**Surface Engineered Nanoparticles for Cancer delivery**”. Responsible for the design of protocol, conduction of experiments, recording of results, analysis and interpretation of results.

## **OTHER PROFESSIONAL EXPERIENCES**

Underwent in-plant training at **TTK Pharma Pvt Ltd, Chennai**, at various departments such as tablet manufacture, tablet coating, liquid oral and parenteral production units for a period of 45 days.

## **PROFESSIONAL MEMBERSHIP**

- A Registered pharmacist from the Tamil Nadu Pharmacy Council, Chennai
- Life Member of Association of Pharmaceutical Teachers of India (APTI)
- Life Member of Indian Association of Colleges of Pharmacy (IACP)

## **ACHIVEMENTS AND AWARDS**

- Awarded as the ‘**Best Performer of the Department**’ for the academic year 2017-18 during the Founder’s Day Celebrations of Dr. MGR Educational and Research Institute.
- Co-Principal Investigator of AICTE funded project under Research Promotion Scheme (RPS) entitled ‘**Surface Engineered Nanoparticles for Cancer Delivery**’
- Conferred with ‘**The Best Teacher award**’ of the Chaitanya group of institutions in the year 2012.
- Awarded as ‘**The Best outgoing Student**’ of Vel’s College of Pharmacy for the year 2006-2007 by the Vael’s Educational trust.
- Received the “**The Best Research Project award**” of Vel’s College of Pharmacy for the year 2006-2007 by the Vael’s Educational trust.
- Qualified in the GATE Examination conducted by Indian Institute of Technology, Delhi with 90 percentile.
- Recipient of scholarship under AICTE scheme for M.Pharm during the academic year 2005 to 2007.