

FACULTY DATABASE

Name: **Dr. S. NANDHAKUMAR**
Designation: ASSOCIATE PROFESSOR
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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
- Professional certificate in Pharmacovigilance
- Diploma in Computer Applications

Research Interest:

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

Publications

Published Papers

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 (ϵ -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 (ϵ -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 (ϵ -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

Vankayalu Devendiran Sundar , Magharla Dasaratha Dhanaraju, **Nandhakumar Sathyamoorthy**. Fabrication and characterization of etoposide loaded magnetic polymeric microparticles. International Journal of Drug Delivery. 2014; 6: 24-35.

Nandhakumar Sathyamoorthy, Vijayalakshmi Rajendran, Naveena V.S.H, Magharla Dasaratha 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.
Vankayalu Devendiran Sundar, **Nandhakumar Sathyamoorthy**, Manam Madhuri, Magharla Dasaratha 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. **(IF:0.66)**

M. Madhavi Latha, V. D. Sundar, **S. Nandha Kumar**, M. D. Dhana Raju. 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 Dasaratha 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, **Sathyamoorthy 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. (Elsevier, **IF: 1.8**)

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 Drug Delivery system – a boon for the delivery of Poorly soluble drugs

Optimization of vinorelbine loaded poly (ϵ -caprolactone) nanoparticles using Box Behnken design

ACADEMIC EXPERIENCE

| S.No. | Name of the Institution/Industry | From | To | Years of Experience |
|--------------|---|-------------|------------|----------------------------|
| 1 | Faculty of Pharmacy, Dr. MGR Educational and Research Institute | 18-05-2017 | Till date | 2 years |
| 2 | GIET School of Pharmacy, Rajahmundry | 27-12-2006 | 13-05-2017 | 10.5 years |

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.
- 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.