

## **Dr. K.RUCKMANI**

Professor

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### **Research Interests**

- Novel Drug Delivery Systems with special interest in NanoPharmaceuticals.
- Gene therapy using nonviral nanovectors
- Development of Nanosuspensions and Nanoemulsions for Pharmaceutical Industries
- Effective treatment of asthma by nanodrug delivery
- Niosomes for effective treatment of cancer
- Solid Lipid Nanoparticles (SLN) – A Novel Carrier System for anti-tumor drugs
- Nanocomplexes for biopharmaceutical applications
- Multi functional nanoparticles
- Metal Nanoparticles
- Nanocomplexes for the Targeted Drug Delivery to the Inflamed Site of Lungs
- Nanoparticle-RNAi Prophylactics
- Herbal medicine



### **Professional Recognition, Awards, Fellowships Received**

- **BOYSCAST** fellowship 2006-07 by DST in the area of Drug Delivery Systems
- **First** lady candidate in PhD (Pharmacy) in the Tamilnadu state, India. This achievement has been well recognized and appreciated by the senate of The Tamilnadu Dr. M.G.R. Medical University, Chennai during its 18<sup>th</sup> meeting held on 10-08-2000
- **Tamilnadu Young Women Scientist Award** for the year 2006 in the field of Medical Sciences and Native Medicine (Instituted by Science City, Chennai, Government of Tamilnadu) [First person awarded from the specialization of Pharmaceutical Sciences]
- Qualified in **GATE-1992** and has been awarded Junior Research Fellowship during M.Pharmacy by Ministry of Human Resource Development, New Delhi.
- University **5<sup>th</sup> rank** in M. Pharmacy
- **Gold medal** for securing University **First Rank** in B. Pharmacy
- **G.P. Nair Award** 1991 given by Indian Drug Manufacturer's Association, Mumbai
- Endowment award in Pharmacognosy, Madurai Medical College, Madurai
- Cash award Rs.1000 and certificate of appreciation for securing 100% results in the subjects handled for every year from 1996-2003 by Periyar College of Pharmaceutical Sciences for Girls, Tiruchirappalli
- **Government Merit scholarship** awarded during S.S.L.C. by TamilNadu State Government
- **International recognition** has been achieved as a Research reviewer for reputed journals like Journal of Ethno pharmacology, Indian Journal of Experimental Biology [CSIR publication] and Editorial Board member of Journal of Biological Sciences, Journal of Pharmacology and Toxicology and International Journal of Pharmacology
- **Research projects** have been supported by various funding agencies such as AICTE, DRDO and TNSCST

- Himalaya Herbal Healthcare Company, India has recognized the work of antibacterial activity of *Cyperus rotundus* Linn. in formulating the HIMFERTIN VET capsule for the management of anestrus cows.
- Member, **Institutional Animal Ethical Committee**- Bharathidasan University, Tiruchirappalli and Tiruchirappalli Medical College, Tiruchirappalli
- Chairman of the **ISTE** (Indian Society for Technical Education) **Chapter** which has been awarded the Best ISTE chapter award 2004
- Member - **Senate**, The Tamilnadu Dr.M.G.R. Medical University, Chennai (1999-2005)
- Member – **Board of Studies** (Pharmacy), The Tamilnadu Dr.M.G.R. Medical University, Chennai (2001-2003)
- Member – **Faculty of Pharmacy**, The Tamilnadu Dr.M.G.R. Medical University, Chennai (19.03.2004 -04.03.2005)
- Coordinator for AICTE - NBA Accreditation of Periyar College of Pharmaceutical Sciences for Girls(PCPSG),Tiruchirappalli
- Coordinator for ISO Certification of PCPPSG,Tiruchirappalli
- Recognized **Guide for PhD** – Anna University Tiruchirappalli,Tiruchirappalli, Bharathidasan university, Tiruchirappalli, The Tamil Nadu Dr. M. G. R. Medical University, Chennai
- Recognised **Co-Guide** for PhD - Annamalai University, Chidambaram Tamil University, Thanjavur
- Member - N.S.S. Advisory committee (2000 – 2003), The Tamilnadu Dr.M.G.R.Medical University, Chennai
- Member, Board of Advisors, American Biographical Institute.
- Special invitee as resource person in various AICTE, UGC sponsored conferences, workshops and symposium.

➤ **Indian Patent Filed:**

Ruckmani Kandasamy and Nilani Packianathan  
841/CHE/2009 ; “HERBAL EXFOLIATE”

## ☞ Recent Publications

1. Inhibition of NPRA signaling by isatin reduces lung inflammation in a mouse model of allergic asthma  
Ruckmani Kandasamy, San Joon Park, Sandhya Boyapalle, Shyam Mohapatra  
Clinical and Experimental allergy (Under review)  
Impact factor **3.741**
2. A simple and rapid high-performance liquid chromatographic method for the determination of bisoprolol fumarate and hydrochlorothiazide in a tablet dosage form.  
Shaikh S, Thusleem OA, Muneera MS, Akmal J, Kondaguli AV, Ruckmani K  
*J Pharm Biomed Anal.* 2008 Nov 4; 48(3):1055-7. Epub 2008 Aug 19  
Impact factor: 2.761
3. Nanoparticulate Drug Delivery System of Cytarabine Hydrochloride (CTH) for Improved Treatment of Lymphoma  
Ruckmani, K.; Sivakumar, M.; Kumar, S. Sathees  
*Journal of Biomedical Nanotechnology*, 3(1), 2007, 90-96(97)  
Impact factor: 2.1;
4. Investigation on Niosomes with Zidovudine as a Carrier for Treating HIV Infection  
V. Sankar, K. Ruckmani, R. Saraswathi, M. Ramanathan  
*J Pharm Pharmaceut Sci* (www.cspscanada.org) 9(2): 2006
5. Solid Lipid Nanoparticles (SLN) – A Novel Carrier System for anti-tumor drugs  
Characterization and In-vitro and In-vivo studies  
Ruckmani, K., Sivakumar. M., Ganesh kumar, P.A.  
*Journal of Nanoscience and Nanotechnology*, 6(9/10), 2006, 2991-2995  
Impact factor: 1.98;
6. Formulation and evaluation of Ibuprofen loaded nanoparticles for improved anti-inflammatory activity  
Ruckmani, K., Satish Kumar, S., Rajkumar, S.  
*Acta Pharmaceutica Turcica*, 45, 2003, 125-130  
Impact factor: 0.604
7. The efficacy of entrapped-1- $\beta$ -D arabinofuranosylcytosine entrapped in niosome against leukaemia in mice

- Ruckmani, K., Ghosal, S. K.  
*S. T. P. Pharma Sciences*, [France], 11(4), 2001,301-303  
Impact factor: 0.527
8. Development and validation of a Selective online Dissolution method for Rosiglitazone maleate  
Saleem Shaikh, M.S. Muneera, O.A. Thusleem, Muhammad Tahir, Anand V. Kondaguli, and K. Ruckmani  
*Journal of Chromatographic Science*, 45(6), 2007.,311-314  
Impact factor: 1.241;
9. Therapeutic System of Carvedilol: Effect of Hydrophilic and Hydrophobic Matrix on In Vitro and In Vivo Characteristics  
Ubaidulla U, Reddy MV, Ruckmani K, Ahmad FJ, Khar RK  
*AAPS PharmSciTech.* 2007; 7(4): Article 2. DOI: 10.1208/pt080102  
Impact factor: 0.857;
10. Non-ionic surfactant vesicles (Niosomes) of cytarabine hydrochloride for effective treatment of leukaemia: Encapsulation, Storage and In-vitro release  
Ruckmani, K., Ghosal, S. K., Jaykar, B.  
*Drug Development and Industrial Pharmacy (USA)*, 26(2), 2000, 217-222  
Impact factor: 0.619; Citations: 25
11. Eudragit matrices for sustained release of ketorolac tromethamine: formulation and kinetics,  
Ruckmani,K.,Muneera,M.S.,Vijaya,R.,  
*Boll. Chim.Farmac Anno (Italy)*, 139(5),2000, 1-4
12. Sustained Release matrix formulations of Glipizide using chitosan  
Ruckmani, K., Easwari, T. S., Ubaidulla, U. Nisha Mary Joseph  
*Acta Pharmaceutica Turcica*, 44(3), 2002.  
Impact factor: 0.604
13. AntiHIV,antibacterial and antifungal activities of some novel 1,4-disubstituted--1, 2, 4-triazolo [4, 3-a] quinazolin-5(4H)-one  
Alagarsamy,V.,Giridar,R.,Yadav,M.R.,Revathy,R.,Ruckmani,K.,De Clercq,E  
*Indian Journal of Pharmaceutical Sciences*, 68(4), 2006, 532-535

14. Evaluation of formulated nanoparticles for plumbagin a biomimetic tool for passive cancer therapy  
Eswari, T. S., Manavalan, R., Ruckmani, K.  
*Int. J. Pharmaceutics* (Communicated).
15. Study on the role of non-ionic surfactant as a biomimetic tool through surface coating of nanoparticles for plumbagin towards passive cancer therapy  
Eswari, T. S., Manavalan, R., Ruckmani, K.  
*Die Pharmazie* (Communicated).
16. Effect of protective colloid in homogeneity of domperidone oral suspension  
Thusleem, O.A., Saleem Shaikh, Z., Muneera, M.S., Anand Kondaguli, V., Ruckmani, K., Sivakumar, M.,  
*Drug Development and Industrial Pharmacy* (Communicated).
17. High Performance Liquid Chromatographic quantitative determination of Brimonidine Tartrate in pharmaceutical preparation  
Saleem Shaikh, Z., Thusleem, O.A., Muneera, M.S., Anand Kondaguli, V., Ruckmani, K., Sivakumar, M.,  
*Analytical Chemistry* (Communicated)
18. Quality behavior of atorvastatin tablets: 19 generic products versus innovator product  
Saleem shaikh, Muneera, Thusleem, Javeed akmal, Anand kondaguli1 and Ruckmani  
*Journal of Pharmaceutical Sciences* (Submitted)
19. Immediate release tablets of Valsartan and Efavirenz: Role of concentration of superdisintegrants.  
Karthikeyan, Kesavan; Rao, Vinay, Koduri, Bindu; Siddalingam, Rajinikanth; Kandasamy, Ruckmani; Balasubramaniam, Jagdish;  
*Drug Development and Industrial Pharmacy* (Submitted)
20. Evaluation of excipient incompatibility for dry processing of simvastatin tablets  
Saleem Z. Shaikh, O.A Thusleem , M.S. Muneera , P.Khalil 1, Anand V. Kondaguli and K.Ruckmani  
*Drug Development and Industrial Pharmacy* LDDI – 2008 - 0244(Submitted)

**Research Students:** PhD: 11; M.Pharm: 42