



## *PROFESSIONAL EXPERIENCE*

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- 18.09.2012 onwards  
Professor & Head  
Department of Pharmaceutical Technology,  
Anna University, BIT Campus, Tiruchirappalli
- 16.07.2010 – 17.09.2012  
Director, Centre for Research  
Professor & Head  
Department of Pharmaceutical Technology,  
Anna University of Technology, Tiruchirappalli
- 08.02.2010 – 15.07.2010  
Officiating Vice-chancellor, Anna University of Technology, Tiruchirappalli,  
Tamilnadu, India
- Professor & Head–01.02.2007 onwards  
Department of Pharmaceutical Technology,  
Anna University Tiruchirappalli, Tiruchirappalli -620024
- Professor & Head–05.03.2005 – 31.01.2007  
Department of Pharmaceutical Engineering & Technology,  
Bharathidasan University, Tiruchirappalli.
- Professor & Principal i/c - 01.03.2001 – 04.03.2005  
Periyar College of Pharmaceutical Sciences (PCPS), Tiruchirappalli
- Assistant Professor & Principal i/c –01.10.1999 –28.02.2001  
Periyar College of Pharmaceutical Sciences, Tiruchirappalli
- Senior Lecturer - 01.09.1998 – 30.09.1999  
Periyar College of Pharmaceutical Sciences, Tiruchirappalli
- Lecturer –04.07.1994 – 31.08.1998  
Periyar College of Pharmaceutical Sciences for Girls, Tiruchirappalli
- Analytical Chemist - Feb 1992 – Jul 1992  
Tablets (India) Ltd, Chennai

## *INVENTIONS: PATENTS GRANTED/ APPLIED*

### Patents :

1. Title : Immediate release compositions of acid-labile drugs  
Inventors :Muneera Mohamed Shafee, Ruckmani Kandasamy, Thusleem Omar Abdul Gani, Saleem Zainuddin Shaikh, Anand Vasantharao Kondaguli.  
US Patent No: US8, 999,384 B2; Date of Patent: Apr 7, 2015
2. Title : Immediate release compositions of acid-labile drugs  
Inventors :Muneera Mohamed Shafee, Ruckmani Kandasamy, Thusleem Omar Abdul Gani, Saleem Zainuddin Shaikh, Anand Vasantharao Kondaguli.  
PCT Application No: PCT/IB2011/000017; January 7, 2011

3. Title : Herbal Exfoliate  
Inventors: Nilani Packianathan, Ruckmani Kandasamy  
Indian patent File No. 841/CHE/2009; Dated 13.04.2009
4. Title : Biopolymer composition  
Inventors: Nilani Packianathan, Ruckmani Kandasamy  
Indian patent File No. 2742/CHE/2010; Dated 20.09.2010
5. Title : Novel and stable pharmaceutical compositions of vitamin A analogs  
Inventors : Thusleem Omar Abdul Gani, Ruckmani Kandasamy, Muneera Mohamed Shafee, Saleem Zainuddin Shaikh  
Indian patent File No: 831/CHE/2011; Dated 17.03.2011

FUNDS RECEIVED

| FUNDING AGENCY                                   | GRANT RECEIVED                                   | TOPIC OF THE PROJECT / PI/Co-PI   |
|--|--|---|
| <b>IN PROGRESS</b>                               |  |   |
| DST, Govt. of India                              | Rs.167.16 lakhs<br>Total : Rs. 396.46 lakhs      | “National Facility on Bioactive peptides from Milk” (PI)<br>Jointly with National Dairy Research Institute , Bengaluru  |
| ICAR, Govt. of India                             | Rs. 28.84860 lakhs<br>Total : Rs. 99.73340 lakhs | Resveratol and catechins- loaded niosomes and nanoparticles as delivery vehicles for fortification of milk and milk products (Co-PI)<br>Jointly with National Dairy Research Institute , Bengaluru                    |
| DRDO, Govt. of India                             | Rs. 44.4872 lakhs<br>Total : Rs. 53.4372 lakhs   | Stabilization of Plague (A Potential Bioweapon) Vaccine Using Biocompatible Polysaccharides (PI)<br>Jointly with Kozhikode Government Medical Colege , Kerala   |
| DBT, GoI under Twinning Programme for North East | Rs.26.72 lakhs<br>Total : Rs. 67.00 lakhs        | Systematic exploration and analysis of Indigenous Nagaland medicinal plant “ <i>Clematis nepaulesis</i> ” for the effective treatment of Rheumatoid Arthritis (Co-PI)<br>Jointly with Kohima college, Kohima,Nagaland |
| <b>COMPLETED</b>                                 |  |   |
| DBT,GOI under Twinning Programme for North East  | Rs.29.40 lakhs<br>Total : Rs. 57.62 lakhs        | Isolation, Characterization and Formulation studies of gums obtained from Albiziastipulata and Prunuscerasoides of Mizoram (PI)<br>Jointly with Regional Institute of Nursing & Paramedical Sciences(RIPANS), Mizoram |
| DST, Govt.of India                               | Rs. 600 lakhs                                    | National Facility for Drug Development for Academia, Pharmaceutical and Allied Industries (PI)  |
| Nanomission,DST                                  | Rs.32.14lakhs                                    | Nanocomplexes for the Targeted Drug Delivery to the Inflamed Site of Lungs(PI)  |
| AICTE  | Rs.8.5 lakhs                                     | Modernization of(MODROBS) Pharmaceutical Biotechnology Laboratory (coordinator)   |

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|---|---|---|
| DRDO  | Rs.0.55 lakhs   | Evaluation of antitumour activity and Pharmacokinetic evaluation of the concept pessary (PI)  |
| AICTE   | Rs.6.00 lakhs   | Entrepreneurship and Management Development Programme (coordinator)   |
| Indian Society for Technical Education, AICTE | Rs.0.9 lakhs  | AICTE Short term training programme on "Recent Trends in Pharmaceutical Technology"   |
| DST   | Better Opportunities for Young scientists in the Chosen Areas of Science & Technology (BOYSCAST) Fellowship | One year Advanced Training at Joy McCann Culverhouse Airway Disease and Nanomedicine Research Center, College of Medicine, University of South Florida, Tampa, Florida 33612 USA      |
| CSIR  | Rs.0.25 lakhs   | National conference on "Recent Trends and Applications of Nanotechnology in Pharmacy & Biology" Jan 21 & 22, 2010   |
| ICMR  | Rs.0.25 lakhs   |   |
| DST, New Delhi                                | Rs.3.00 lakhs   |   |
| Anna University, Chennai                      | Rs.2.00 lakhs   | NanoBio Collaborative International Conference 27-29 <sup>th</sup> , 2013 jointly organised with Nanomedicine Research Centre, University of South Florida, USA                       |
| DST   | Rs.4,75,000/-   |   |
| Mother Teresa Women University, Kodaikanal    | Rs.2.00 lakhs   |   |
| ICMR, New Delhi                               | Rs.40,000/-   |   |
| INSA, New Delhi                               | Rs.40,000/-   |   |
| DRDO, New Delhi                               | Rs.50,000/-   |   |
| DST, New Delhi                                | Rs.2.5 lakhs  |   |
|   |   | 5 <sup>th</sup> Annual International Convention of Association of Pharmacy Professionals on "Redefining Pharmacy Education and Regulations for Translational Drug Research in India." |

#### DST Sponsored National Facility for Drug Development (NFDD) for Academia, Pharmaceutical and Allied Industries

National Facility for Drug Development (NFDD) for Academia, Pharmaceutical and Allied Industries was established at Department of Pharmaceutical Technology, Anna University, Tiruchirappalli with a financial assistance from Department of Science & Technology, Government of India and inhouse support. NFDD is functioning with a mission to encourage drug discovery and development research at an advanced level. NFDD works with a vision of drug development, animal model development for drugs and chemicals of herbal as well as synthetic origin which makes a unique contribution to the global stream. The establishment not only ends up with development of lab facilities but also it may extend upto the level of excellence in the areas of research by making collaborations with international research organisations and universities. NFDD has requisite infrastructural facilities and well-established laboratories with highly sophisticated equipments like LC-MS/MS, H(U)PLC, FTIR, Multimode micro plate reader, Inverted Fluorescent Microscope, Airway Mechanics Analyser (Inhalation Exposure with Whole Body Plethysmograph & Double chamber Plethysmograph), Nano particle and Zeta potential analyser, Spray drier, HPTLC, Rotary vacuum Evaporator,

Water Purification Unit, Animal cell counter, Small animal anaesthesia machine, Homogenizer, Gel Documentation system & Gel Electrophoresis Unit etc.

#### MERITORIOUS AWARDS & PRESTIGIOUS NOMINATIONS

- Tamilnadu Scientist Award (TANSA) 2014 in the discipline of Medical Sciences by Tamilnadu State Council for Science & Technology (TNSCST), Govt. of Tamilnadu
- APP Distinguished Scientist AWARD 2016 given by Association of Pharmacy Professionals for the outstanding scientific contribution in pharmaceutical field.
- Best Innovation Award 2013 for innovation “ Design and Development of Novel Concept for Immediate Release of Pantoprazole” from Anna University, Chennai
- Vetri Penmani (Women Achiever) Award 2011 by Bharathidasan University, Tiruchirappalli for the contribution made in the field of Research
- Shri P.K.Das Memorial Best Faculty Award 2010-2011 instituted by Nehru Group of Institutions (Tamilnadu & Kerala)
- Prof.S.P.Thiagarajan and Prof.S.Rajaraman Endowment Award 2009 for the outstanding patent filed in the field of bio-medicine under the prizes and awards of Indian Association of Biomedical Scientists(IABMS)
- BOYSCAST fellowship 2006-07 by DST, Ministry of Science & Technology, New Delhi
- Tamilnadu Young Women Scientist Award 2006 in the field of Medical Sciences and Native Medicine (Instituted by Science City, Chennai, Government of Tamilnadu)
- G.P. Nair Award 1991 given by Indian Drug Manufacturer’s Association, Mumbai
- 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, Tiruchirappalli
- Government Merit scholarship awarded during S.S.L.C. by Tamilnadu State Government
- Governor nominee –Planning Board of Mother Theresa Women’s University, Kodaikanal. April 2010 to April 2013
- Member, Academic Council, Mother Theresa Women’s University, Kodaikanal
- Member, Academic Council, St. Joseph College (Autonomous) , Tiruchirappalli
- Coordinator, Field of Pharmaceutical Technology, Tamilaga Ariviyal Peravai-10<sup>th</sup> Conference, Manonmanium Sundaranar University, Tirunelveli May 2010.
- Coordinator, Field of Pharmaceutical Technology, Tamilaga Ariviyal Peravai-9<sup>th</sup> Conference, Alagappa University, Karaikudi 11-13 September 2009.
- Qualified in GATE-1992 and has been awarded Junior Research Fellowship during M.Pharmacy by Ministry of Human Resource Development, New Delhi.
- Member, Institutional Animal Ethical Committee, Bharathidasan University, Tiruchirappalli ( 2000-2014); K.A.P.V.Medical College, Tiruchirappalli (2006-2014)
- Member Secretary & Chairman - Institutional Animal Ethical Committee , Bharathidasan Institute of Technology, Anna University Tiruchirappalli ( 2013-2016)
- Chairman - Institutional Animal Ethical Committee , Bharathidasan Institute of Technology, Anna University Tiruchirappalli ( 2017-2022)
- Chairman of the ISTE (Indian Society for Technical Education) Chapter which has been awarded the Best ISTE chapter award 2004
- Member-Board of Governors, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli
- Member, Board of Studies, Faculty of Technology, Anna University, Chennai
- Member – Research Advisory Committee , Bharathidasan Institute of Technology, Anna University, Tiruchirappalli
- 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)
- Member – Board of Studies (Pharmacy), Annamalai University, Annamalainagar (2014-)
- PhD examiner for various national and international universities.

- Special invitee as Resource person in various AICTE, UGC sponsored conferences, workshops and symposium.
- Coordinator for AICTE - NBA Accreditation of Periyar College of Pharmaceutical Sciences for Girls(PCPSG),Tiruchirappalli
- Coordinator for ISO certification of PCPPSG, Tiruchirappalli

## PUBLICATIONS

1. Cellular Imaging and Folate Receptor Targeting Delivery of Gum Kondagogu Capped Gold Nanoparticles in Cancer Cells (Accepted)International Journal of Biological Macromolecules (IF: 3.671)
2. Role of cisplatin in oral squamous cell carcinoma – A review (2017) Journal of Advanced Pharmacy Education & Research 7(2), 39-42
3. Exploring the anti-quorum sensing and antibiofilm efficacy of phytol against *Serratia marcescens* associated acute pyelonephritis infection in Wistar rats (2017) Frontiers in cellular and infection microbiology (IF:4.3) doi: 10.3389/fcimb.2017.00498
4. Synthesis and characterization of cystamine conjugated chitosan-SS-mPEG based 5-Fluorouracil loaded polymeric nanoparticles for redox responsive drug release (2017) European Journal of Pharmaceutical Sciences (IF:3.756)
5. Profiling of bioactive components present in *Ziziphus Mauritiana Lam* for *in-vitro* antioxidant and *in-vivo* anti-inflammatory activities (2017) Int. Res. J. Pharm. 2017, 8 (9) 19-24 DOI: 10.7897/2230-8407.089153
6. Development of Copolymeric Nanoparticles of Hypocrellin B: Enhanced Phototoxic Effect and Ocular Distribution (2017) European Journal of Pharmaceutical Sciences <https://doi.org/10.1016/j.ejps.2017.10.02> (IF:3.756)
7. Phytol loaded PLGA nanoparticle as a modulator of Alzheimer's toxic A $\beta$  peptide aggregation and fibrillation associated with impaired neuronal cell function (2017) *Artificial Cells, Nanomedicine, and Biotechnology* (IANB) (IF:5.605) Taylor & Francis
8. Development and evaluation of Camptothecin loaded Polymer Stabilized Nanoemulsion: Targeting potential in 4T1-Breast tumour xenograft model (2017) European Journal of Pharmaceutical Sciences (IF:3.756)
9. Evaluation of betamethasone sodium phosphate loaded chitosan nanoparticles for anti-rheumatoid activity (2017) IET Nanobiotechnology doi: 10.1049/iet-nbt.2016.0180 (IF:1.463)
10. Formulation and characterization of nonionic surfactant/ cholesterol niosomes for abacavir sulphate encapsulation (2017)Int. J. Res. Pharm. Sci., 8(2), 228-238
11. Cytocompatible chitosan-graft-mPEG-based 5-fluorouracil-loaded polymeric nanoparticles for tumor-targeted drug delivery (2017) Drug Development and Industrial Pharmacy, DOI: 10.1080/03639045.2017.1371741(IF: 2.295)
12. Chitosan stabilized camptothecin nanoemulsions: development, evaluation and biodistribution in preclinical breast cancer animal model.(2017) International Journal of Biological Macromolecules.104 , 1846-1852 <https://doi.org/10.1016/j.ijbiomac.2017.05.127> (IF: 3.671)
13. Antimicrobial and Antioxidant Potentials of Biosynthesized Colloidal Zinc Oxide Nanoparticles For a Fortified Cold Cream Formulation: A Potent Nanocosmeceutical Application. Materials Science and Engineering: C Materials for Biological Applications (In press) (2017)<https://doi.org/10.1016/j.msec.2017.05.059> (IF: 3.420)
14. Co-encapsulated resveratrol and quercetin in chitosan and PEG modified chitosan nanoparticles: for efficient intra ocular pressure reduction (2017) International Journal of Biological Macromolecules 104,1837-1845 (IF: 3.671)
15. Beta sitosterol and Daucosterol (phytosterols identified in *Grewia tiliaefolia*) perturbs cell cycle and induces apoptotic cell death in A549 cells. Scientific reports (2017) 7: 3418 DOI:10.1038/s41598-017-03511-4 (IF: 5.228)
16. Stigmatellin Y - an anti-biofilm compound from *Bacillus subtilis* BR4 possibly interferes in PQS-PqsR mediated quorum sensing system in *Pseudomonas aeruginosa*. Bioorganic & Medicinal Chemistry Letters 27 (2017) 2113–2118 (IF:2.486)
17. Formulation and Evaluation of Herbal Hair Gel for Hair Growth Potential. J of Pharmacol & Clin Res 2(2): JPCR.MS.ID.555581 (2017) DOI: 10.19080/JPCR.2017.02.555581

18. Development of Extended-Release Oral Flexible Tablet (ER-OFT) Formulation for Pediatric and Geriatric compliance: an Age- Appropriate Formulation. AAPS PharmSciTech (2017) DOI: 10.1208/s12249-017-0715-3 (IF:1.954)
19. Bronchodilatory effect of Myxopyrum serratum in animal model. Bangladesh J Pharmacol. 12(1) DOI: 10.3329/bjp.v12i1.30257
20. Physicochemical, thermal, pasting and microstructural properties of tikhur (Curcuma angustifolia Roxb.) starch. Food Hydrocolloids 67 (2017) 27-36 (IF: 3.858)
21. Cigarette smoke and related risk factors in neurological disorders: An update Biomedicine & Pharmacotherapy 85 (2017) 79–86 (IF: 2.326)DOI: 10.1016/j.biopha.2016.11.118
22. Atrial natriuretic peptide-conjugated chitosan-hydrazone- mPEG copolymer nanoparticles as pH-responsive carriers for intracellular delivery of prednisone Carbohydrate Polymers 157 (2017) 1677-1686 DOI: 10.1016/j.carbpol.2016.11.049 . (IF: 4.219)
23. Development of Oral Flexible Tablet (OFT) Formulation for Pediatric and Geriatric Patients: a Novel Age-Appropriate Formulation Platform. AAPS PharmSciTech (2016) pp1-15. doi:10.1208/s12249-016-0666-0 (IF:1.954)
24. Levam: A Biocompatible Homopolysaccharide Excipient for Stabilization of Peptide Drugs. International Journal of Peptide Research and Therapeutics(Springer) (2017). DOI:10.1007/s10989-016-9562-4. (IF: 0.905) Volume 23 (3) 305–311
25. Design and development of *Albizia stipulata* gum based controlled-release matrix tablets in cancer therapeutics. *International Journal of Biological Macromolecules* 92(2016): 972-980. (Elsevier IF 3.138; ISSN: 0141-8130). <http://dx.doi.org/10.1016/j.ijbiomac.2016.08.006>
26. Synergistic antibacterial effect of apigenin with  $\beta$ -lactam antibiotics and modulation of bacterial resistance by a possible membrane effect against methicillin resistant Staphylococcus aureus, Cell . Mol. Biol. 2016, 62 (14): 74-82. (IF- 0.605) doi: 10.14715/cmb/ 2016.62.14.13
27. Phytochemical screening, GC-MS characterization and in vitro antibacterial activity of whole plant *Blepharis boerhavifolia* pers against MRSA. Int. Res. J. Pharm. 2016, 7 (12) DOI: 10.7897/2230-8407-0712146
28. Microwave-assisted Extraction of polysaccharides from *Cyphomandra betacea* and its biological activities (2016) -. *International Journal of Biological Macromolecules* 92, 682-693 (IF: 3.138) doi: 10.1016/j.ijbiomac.2016.07.062. Epub 2016 Jul 22.
29. Phytochemical screening of secondary metabolites from *Myxopyrum serratum* A.W. HILLS by GC-MS, HPTLC Analysis. *International Research Journal of Pharmacy* (2016) 7(6),51-57. (IF: 0.751)
30. Physicochemical investigations of biogenic chitosan-silver nanocomposite as antimicrobial and anticancer agent. *International Journal of Biological Macromolecules*. (2016) Jul 2;92:77-87. doi: 10.1016/j.ijbiomac.2016.07.003. [Epub ahead of print] (IF: 3.138)
31. Heterogeneous polymer composite nanoparticles loaded in situ gel for controlled release intra-vaginal therapy of genital herpes. *Colloids and Surfaces B: Biointerfaces*(2016) 146,160-170. (IF: 3.902) doi: 10.1016/j.colsurfb.2016.06.022. Epub 2016 Jun 15.
32. Alpha-1antitrypsin: associated diseases and therapeutic uses. *Clinica Chimica Acta* (2016) 459, 109-116 (*International Journal of Clinical Chemistry and Diagnostic Laboratory Medicine*).DOI : 10.1016/j.cca.2016.05.028 (IF : 2.824)
33. Ferric Reducing Anti-oxidant Power Assay in Plant Extract. Bangladesh J Pharmacol.11: (2016) 570-572. DOI: <http://dx.doi.org/10.3329/bjp.v11i3.27663>. (IF: 1.052)
34. Recent Trends of Biocompatible and Biodegradable Nanoparticles in Drug Delivery: A Review. *Current medicinal chemistry* (2016) (IF: 3.853)
35. Ultrafast synthesis of stabilized gold nanoparticles using aqueous fruit extract of *Limonia acidissima*L and conjugated epirubicin: targeted drug delivery for treatment of breast cancer RSC Advances 6, (2016) 26874-26882.DOI: 10.1039/c6ra01482h (IF: 3.84)
36. Exploitation of Novel Gum *Prunus Cerasoides* as Mucoadhesive Beads for a Controlled-release Drug Delivery. doi:10.1016/j.ijbiomac.2016.01.007. *International Journal of Biological Macromolecules* 85, (2016) 667-673 (IF: 3.138)
37. Synthesis and characterization of poly (N-isopropylacrylamide)-g-carboxymethyl chitosan copolymer based doxorubicin loaded polymeric nanoparticles for thermoresponsive drug release. *Colloid and Polymer Science*, 294(3),527-535(IF:1.865).(2016)DOI 10.1007/s00396-015-3804-4
38. Fabrication of chitosan–magnetite nanocomposite strip for chromium removal, *Applied Nanoscience*(Springer), 6(2), 277-285 (First online 22, March 2015) (2016) DOI 10.1007/s13204-015-0429-3

39. Phytochemical screening by LC-MS analysis and invitro anti- inflammatory activity of Marselia quadrifolia plant extract. International Journal of PharmTech Research 8(9),148-157. (2015) CODEN (USA): IJPRIF, ISSN: 0974-4304
40. Antibacterial potentiality of anti ulcer and anti-spasmodic drugs with selected antibiotics against methicillin-resistant *Staphylococcus aureus*—*In vitro* and in silico studies. Bangladesh Journal of Pharmacology 10: 875-883 (2015) (IF:1.052) <http://dx.doi.org/10.3329/bjp.v10i4.25271>
41. A versatile effect of Chitosan-silver nanocomposite for surface plasmonic photocatalytic and antibacterial activity. *Journal of Photochemistry and Photobiology B: Biology* 153, 412–422(2015): (IF: 2.960) [doi:10.1016/j.jphotobiol.2015.10.020](https://doi.org/10.1016/j.jphotobiol.2015.10.020)
42. Characterization and in vitro antioxidant activity of Albizia stipulata Boiv. gum exudates. International Journal of Biological Macromolecules 80, 231-239 (2015) (IF: 2.858) [10.1016/j.ijbiomac.2015.06.043](https://doi.org/10.1016/j.ijbiomac.2015.06.043).
43. Phytochemical screening, in vitro evaluation of antibacterial and GC-MS analysis of bioactive compounds from maeruaapetaloroth (Jacobs) (Capparaceae). International Journal of PharmTech Research CODEN (USA): (2015) IJPRIF, ISSN: 0974-4304 8(1), 38-45
44. Hyaluronic acid co-functionalized gold nanoparticle complex for the targeted delivery of metformin in the treatment of liver cancer (HepG2 cells) Carbohydrate Polymers 128 (5), 63–74 (2015) (IF: 4.074) DOI:10.1016/j.carbpol.2015.04.010
45. Antimicrobial and antifungal activities of *zehneriascabra*(l.f.) sond against human pathogens. *International Journal of Development Research* 5(3)3852-3859, ISSN: 2230-9926 (2015) (IF : 1.325)
46. An Ethnobotanical Study of Medicinal Plants Used by Ethnic People in Gingee Hills, Villupuram District, Tamilnadu, India. Advanced Journal of Ethnomedicine (American Journal of Ethnomedicine ) 2(2), 084-102. ISSN: 2348-9502 ( 2015 ) ( IF : 0.394)
47. Alginate Beads of Captopril using Galactomannan containing Senna Tora Gum, Guar Gum And Locust Bean Gum , International Journal of Biological Macromolecules 76,119-131.[doi:10.1016/j.ijbiomac.2015.02.026](https://doi.org/10.1016/j.ijbiomac.2015.02.026) (2015) (IF: 2.858)
48. Studies on Anti microbial Potential of Non-antibiotics on Resistant Bacteria – A Review.. 7(2), 63-68, DOI: 10.5530/jyp.2015.2.2. .[ISSN: Print -0975-1483, Online - 0975-1505] (2015) (IF: 0.43)
49. Synthesis and characterization of Arabic gum capped gold nanoparticles for tumor-targeted drug delivery. Material Letters 139, 241-244 (2015) (IF:2.489) DOI: 10.1016/j.matlet.2014.10.010
50. Concepts of Process Validation in Solid Dosage Form [Tablet] – An Overview. SAJ Pharmacy and Pharmacology, 1(1), (2014) 1-12.ISSN: 2375-2262
51. Physicochemical characteristics and antioxidant activity of *Prunus cerasoides* D.Don gum exudates.International Journal of Biological Macromolecules 69, 192-199 (2014) (IF: 2.858) [10.1016/j.ijbiomac.2014.05.050](https://doi.org/10.1016/j.ijbiomac.2014.05.050) .
52. A New Simple and Rapid Method for the Determination of Sodium Hyaluronate in Active Pharmaceutical Ingredient and Ophthalmic Formulations by DP5 Photorode, *World Journal of Analytical Chemistry, Vol. 2, No. 2, 15-22*(2014). DOI:10.12691/wjac-2-2-1. **ISSN (Print): 2333-1178; ISSN (Online): 2333-1283**
53. Extracellular Bio-inspired synthesis of silver nanoparticles using Raspberry leaf extract against human pathogens. Int. J. Pharm. Sci. Rev. Res., 25(2), 160-165. ISSN 0976 – 044X (2014) (IF: 0.65)
54. Antimicrobial Potential of *LippiaNodiflora*Linn. Int. J. Pharm. Phytopharmacol. Res. (eIJPPR) 4 (3): 145-149. ISSN (Online) 2249-6084 (Print) 2250-1029 (2014) (IF: 0.852)
55. ICH Q8 guidelines in practice: Spray Drying Process Optimization by 23 factorial design for the production of Famotidine nanoparticles. *Pharmaceutical Nanotechnology (Bentham Science)* 2, 138-148. (2014) DOI: [10.2174/2211738503666150119231622](https://doi.org/10.2174/2211738503666150119231622)
56. Formulation of Herbal Bath Soap from Vitex negundo Leaf Extract. Journal of Chemical and Pharmaceutical Sciences 95-99 ISSN: 0974 -2115(2014)
57. Determination of sodium hyaluronate in pharmaceutical formulations by HPLC-UV. Journal of Pharmaceutical Analysis (Elsevier) 3(5); 324-329 ISSN: 2095-1779 (IF: 0.720) (2013) DOI: [10.1016/j.jpha.2013.02.001](https://doi.org/10.1016/j.jpha.2013.02.001)
58. Enhancement of the Efficacy of Antibiotics Ciprofloxacin and Gentamycin against Gram Positive And Gram Negative Micro Organism with Non Antibiotic Nimesulide, International Journal of Pharmacy and Pharmaceutical Sciences, Vol 5, 627-630,ISSN(Online): 0975-8232, ISSN (Print): 2320-5148(2013) (IF: 0.55)
59. Design and evaluation of intragastric buoyant tablets of metformin Hydrochloride. International Journal of Pharmacy and Pharmaceutical Sciences 5(3),479-484(2013) (IF:0.55)



60. Efficacy of Antibacterial Activity of Antibiotics(2011) Ciprofloxacin and Gentamycin Improved with Anti Depressant Drug, Escitalopram. Int. J. Pharm. Sci. Rev. Res., 21(2), Jul – Aug 2013; n° 14, 71-74 ISSN 0976 – 044X (2013)
61. Sustained release aerosol for pulmonary drug delivery system; A Review, Int J Pharm Pharm Sci, 5(3), 126-130,ISSN(Online): 0975-8232, ISSN (Print): 2320-5148 (2013) (IF: 0.55)
62. Dry powder inhaler –Formulation aspects, Pharma Times, 44(10), 14-18.ISSN 0031-6849 (2012)
63. (2013) Determination of sodium hyaluronate in pharmaceutical formulations by HPLC-UV. Journal of Pharmaceutical Analysis (Elsevier) 3(5); 324-329 ISSN: 2095-1779 DOI: 10.1016/j.jpha.2013.02.001
64. (2013) Enhancement of the Efficacy of Antibiotics Ciprofloxacin and Gentamycin against Gram Positive And Gram Negative Micro Organism with Non Antibiotic Nimesulide, International Journal of Pharmacy and Pharmaceutical Sciences, Vol 5, 627-630,ISSN(Online): 0975-8232, ISSN (Print): 2320-5148
65. (2013) Design and evaluation of intragastric buoyant tablets of metformin Hydrochloride. International Journal of Pharmacy and Pharmaceutical Sciences 5(3),479-484
66. (2013) Efficacy of Antibacterial Activity of Antibiotics Ciprofloxacin and Gentamycin Improved with Anti Depressant Drug, Escitalopram. Int. J. Pharm. Sci. Rev. Res., 21(2), Jul – Aug 2013; n° 14, 71-74 ISSN 0976 – 044X
67. (2013) Sustained release aerosol for pulmonary drug delivery system; A Review, Int J Pharm Pharm Sci, 5(3), 126-130,ISSN(Online): 0975-8232, ISSN (Print): 2320-5148
68. (2012) Dry powder inhaler –Formulation aspects, Pharma Times, 44(10), 14-18.ISSN 0031-6849
69. (2011) A simple and rapid high-performance liquid chromatographic method for determining tobramycin I in pharmaceutical formulations by direct UV detection, Pharmaceutical Methods 2(2) 117-129.DOI: 10.4103/2229-4708.84455
70. (2011) Biodegradable polymeric micelles of camptothecin: formulation and characterization, Acta Pharmaceutica Scientia, 53: 243-260 ISSN: 13072080
71. (2011) Effects of crystallinity on compression of Pharmaceuticals, Pharma Times, 43(10), 13-15. ISSN 0031-6849
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*Books / Book Chapters:*

1. S. Lakshmana Prabu, T.N.K. Suriyaprakash, K. Ruckmani and R. Thirumurugan (2015). *Biopharmaceutics and Pharmacokinetics, Basic Pharmacokinetic Concepts and Some Clinical Applications*, Dr. Tarek A Ahmed (Ed.), ISBN: 978-953-51-2197-8, InTech, DOI: 10.5772/61160. Available from: <http://www.intechopen.com/books/basic-pharmacokinetic-concepts-and-some-clinical-applications/biopharmaceutics-and-pharmacokinetics>
2. S. Lakshmana Prabu, T.N.K. Suriyaprakash, K. Ruckmani, R. Thirumurugan, A. Shanmugarathinam. Nanocarriers as drug delivery systems. In: *Therapeutic Nanostructures, Volume 2: Drug Delivery*. [Editor: Alexandru Mihai Grumezescu].
3. Prabu, Sakthivel Lakshmana, TNK Suriyaprakash, Ruckmani Kandasamy and Thirumurugan Rathinasabapathy. "Effective Waste Water Treatment and its Management." In *Toxicity and Waste Management Using Bioremediation*, ed. Ashok K. Rathoure and Vinod K. Dhatwalia, 312-334 (2016), accessed January 24, 2016. doi:10.4018/978-1-4666-9734-8.ch016
4. Characterization techniques of hydrogel and its applications in **"Cellulose-based superabsorbent hydrogels"**. Springer publication 2017

**Research Guidance:**

Post Doctoral Fellows / Research Associates : Completed : 02; In progress : 05

PhDs : Awarded : 14 ; Thesis submitted : 05; In progress : 07

MS ( By Research) : Awarded : 01

**CONFERENCE SEMINARS ORGANISED :**

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1. TEQIP –II sponsored International Conference on the Trends and Innovations in Chemical and Pharmaceutical Technologies during 2<sup>nd</sup> -4<sup>th</sup> February 2017
2. TEQIP –II and NFDD sponsored Workshop on "Principles and Applications of Advanced Analytical Instruments " on 20<sup>th</sup> to 24<sup>th</sup> September 2016 at Department of Pharmaceutical Technology, Anna University, BIT campus, Tiruchirappalli
3. TEQIP-II and NFDD sponsored Workshop on "Principles and Applications of Advanced Analytical Instruments" 01-02 Mar'2016
4. Chairperson in DST and DBT Sponsored 5<sup>th</sup> Annual International Convention of Association of Pharmacy Professionals held in Department of Pharmaceutical Technology, Anna university, BIT Campus, Tiruchirappalli during 22<sup>nd</sup> & 24<sup>th</sup> January, 2016.
5. DST sponsored Hands on Training on Sophisticated Instruments, 05-07 Oct'2015
6. TEQIP II sponsored Hands on Training on Sophisticated Instruments, 16-20<sup>th</sup> Feb'2015
7. DST sponsored National Facility for Drug Development for Academia, Pharmaceutical and Allied Industries, "Workshop on Sophisticated Spectroscopic Equipments" , 08-10<sup>th</sup> May 2014 at Department of Pharmaceutical Technology, Anna University, BIT campus, Tiruchirappalli
8. NanoBio Collaborative International Conference 27-29<sup>th</sup> June , 2013 jointly organised with Nanomedicine Research Centre, University of South Florida, USA

9. TEQIP II sponsored faculty development program on “Current developments in Life Sciences: an interdisciplinary approach (CDLS-2013)” organized by Department of Pharmaceutical Technology, Anna University, BIT campus, Tiruchirappalli on 19/08/2013.
10. One day seminar on Research Methodology on 27.08.2011 at Anna University of Technology, Tiruchirappalli.
11. Summer School on “Current Developments in Biological, Nano and Pharmaceutical Technology” 05.04.2010 to 18.04.2010 at Anna University of Technology, Tiruchirappalli (10 participants)
12. DST Sponsored Recent Trends and Applications of Nanotechnology in Pharmacy & Biology, 21st & 22nd Jan 2010 at Anna University Tiruchirappalli. (293 participants)
13. Pharmaceutical Engineering International E-symposium, 3<sup>rd</sup> March, 2006 at Bharathidasan University, Tiruchirappalli
14. Contract Research and Patent Rights National seminar, 24<sup>th</sup> Feb, 2006 at Bharathidasan University, Tiruchirappalli
15. Pharma Innovations National symposium, 5<sup>th</sup> & 6<sup>th</sup> Jan, 2006 at Bharathidasan University, Tiruchirappalli
16. Recent Advances in Herbal Technology ,AICTE-sponsored Staff Development Programme(SDP), 16<sup>th</sup> to 30<sup>th</sup> Nov, 2004 at Periyar College of Pharmaceutical Sciences for Girls, Tiruchirappalli
17. Pharmacology & Toxicology – An Experimental & Clinical Approach Workshop, 26<sup>th</sup> Feb, 2004 at Periyar College of Pharmaceutical Sciences for Girls, Tiruchirappalli
18. Emerging Trends in Medicinal Plants, Workshop, 25<sup>th</sup> Feb, 2004 at Periyar College of Pharmaceutical Sciences for Girls, Tiruchirappalli
19. Careers in Pharmacy Workshop, 7<sup>th</sup> & 8<sup>th</sup> Aug, 2003 at Periyar College of Pharmaceutical Sciences for Girls, Tiruchirappalli
20. Women Entrepreneurship Development Training Workshop, 20<sup>th</sup> to 26<sup>th</sup> Mar, 2003 at Periyar College of Pharmaceutical Sciences for Girls, Tiruchirappalli
21. Medicinal Plants – Prospects and Challenges Workshop, 21<sup>st</sup> & 22<sup>nd</sup>, Dec, 2002 at Periyar College of Pharmaceutical Sciences for Girls, Tiruchirappalli
22. Health & Hygiene Workshop for School students, 28<sup>th</sup> Oct to 1<sup>st</sup> Nov 2002 at Periyar College of Pharmaceutical Sciences for Girls, Tiruchirappalli
23. Health care Workshop for School students, 1<sup>st</sup> to 7<sup>th</sup> Jan 2002 at Periyar College of Pharmaceutical Sciences for Girls, Tiruchirappalli
24. Medical Detailing and Drugs Marketing Workshop for Working Pharmacists, 27<sup>th</sup> & 28<sup>th</sup> Feb, 1998 at Periyar College of Pharmaceutical Sciences for Girls, Tiruchirappalli

#### *PROFESSIONAL MEMBERSHIP*

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- National advisory member – National seminar on “Recent Trends and Future Advances in Life Sciences” on 26<sup>th</sup> & 27 Feb’2015 at Central University of Tamilnadu, Tiruvarur.

- National advisory member- International conference on ‘Drugs discovery and development from natural resources’ on 5<sup>th</sup> and 6<sup>th</sup> February 2014 at Regional Institute of paramedical and nursing sciences (RIPANS), Aizawl, Mizoram.
- Member (2013-2019) Board of Studies –Faculty of Technology, Anna University, Chennai
- Member (2013-2016) Board of Studies II for M.Sc – Chettinad Academy of Research and Education, Kancheepuram.
- Member- Performance Assessment Committee, Manonmanium Sundaranar University, Tirunelveli.
- Member, Board of Governors, Anna University, BIT Campus , Tiruchirappalli.
- Member, Selection committee- Department of Biotechnology, Mother Teresa Women’s University, Kodaikanal.
- Member, Academic committee - Mother Teresa Women’s university, Kodaikanal.
- Member, Board of studies in Pharmacy - Annamalai University, Chidambaram.
- Member (1999-2005) Senate -The Tamilnadu Dr. M.G.R Medical University, Chennai
- Member (2001 – 2003) Board of Studies (Pharmacy) -The Tamilnadu Dr.M.G.R. Medical University, Chennai.
- Member (19.03.2004 -04.03.2005) - Faculty of Pharmacy -The Tamilnadu Dr.M.G.R. Medical University, Chennai
- Member (2003-2005) Board of Studies (Pharmaceutical Engineering & Technology), Bharathidasan University, Trichy
- Recognized Guide for PhD-Bharathidasan University, Trichy ; The Tamil Nadu Dr. M. G. R. Medical University, Chennai
- Referee - Journal of Ethanopharmacology (Elsevier) ; Indian Journal of Experimental Biology; Research Journal of Annamalai University
- Editorial Board member - Journal of Biological Sciences; Journal of Pharmacology and Toxicology ; International Journal of Pharmacology
- Expert member - Assessment Committee, Career Advancement Scheme Annamalai University
- Member, Doctoral Committee - SASTRA, Thanjavur ; Prist University, Vallam, The Tamil Nadu Dr. M. G. R. Medical University, Chennai.
- Member, Institutional Animal Ethical Committee (IAEC) – Bharathidasan University, Trichy; KAPV Govt.MedicalCollege, Trichy,AnnaUniversity Tiruchirappalli
- Chairperson, Institutional Animal Ethical Committee (IAEC) –Anna University of Technology,Tiruchirappalli
- Member - Panel of Inspectors, The Tamil Nadu Dr. M.G.R. Medical University, Chennai.
- Member – Board of Examiners - Annamalai University, Chidambaram ; The Tamilnadu Dr. M.G.R. Medical University, Chennai; Mother Theresa Women’s University Manonmanium Sundaranar University, Tirunelveli;
- Member ( 2000 – 2003)- N.S.S. Advisory committee - The Tamilnadu Dr.M.G.R.Medical University, Chennai
- Member (2004 -2005)- American chemical Society (No. 2363669 )
- Member - Research Board of Advisor – The American Biographical Institute
- Member - Indian Local chapter of controlled Release Society Inc (USA)
- Life member - Association of Pharmaceutical Teachers of India (TN/LM 135)
- Life member - Indian Association of Biomedical Scientists (L 408 )
- Associate Life Member – Indian Hospital Pharmacist Association (ALM 50044 )
- Life member - Indian Pharmaceutical Association (TN/MDS/LM/0195)
- Life member - Indian Society for Technical Education (LM/34360)
- Life member - Indian Pharmacists Association