Dr. K. Natarajan

M.Pharm., Ph.D.,MHRM
15 years of Research and Academic Experience
natarajan@tjohngroup.com

My Objective is to Excel in Education & Research.

Obtained Doctorate from School of Chemical and Biotechnology, SASTRA University, Thanjavur in 10th June 2015.

My Significant Achievements

- Received research grant from Rajiv Gandhi University of Health Sciences, Bangalore.
- Published27 research articles in National & International Journals of reputation with Impact Factors.
- Fund received from Mahatma Gandhi DoerenkampZbindan Foundation to host National seminar.
- Fund received from Luminas Pharmaceuticals P Ltd for hosting a National Conference.
- Organized (5) and Co-Organized (2) Seminars/Conference/Workshop.
- Supervised 13 M. Pharmacy and 03 B. Pharmacy projects.
- 10 years of research experience and 15 years of teaching experience.
- Reviewer for Elsevier, Bentham Scienes and NISCAIR Journals.
- Invited speaker on marine biotechnology

Area of Expertise (Subjects taught)

Biotechnology, Molecular and Cell Biology, Biochemistry, Pharmaceutical analysis,

My area of Interest

- Bioactive alkaloids from marine invertebrates.
- Herbal screening for Cancer, Asthma and Diabetes.
- Microbial Biotechnology for polymer isolation and understanding the resistant pattern.
- Carrying out research in alternatives to the animal models using Hen's Egg ChorioAllantoic Membrane (HECAM) in determination of angiogenisis and toxicity evaluation

PAPERS PRESENTED IN CONFERENCES

1. Isolation of lipase producing strains and optimizing the parameters for production of lipase enzyme, *BIOCAM 2008*, 3-6th Feb 2008, *CUSAT, Cochin.*
2. Preparation and evaluation of immune microspheres of carboplatin containing rabbit antimouseIgG in DLA, *IAPST*, 23rd Nov 2008, *Madras Medical College.*

3. Production of antimicrobial compound from soil actinomycetes, *61st IPC*, 11-13th Dec, *Nirma Institute, Ahmadabad.*
4. Hyaluronan- A novel polymer production from microbial source, *International conference on Recent Advances in Drug Discovery*, 22-24th Oct 2010, *UCPS, Kakatiya University, Warangal.*
5. In vitro cytotoxic activity of marine invertebrate animal *Polyclinummadrasensis*, *EPMD 2011*, 17-18 Mar 2011, *UCP, Madurai*.
6. Bioscreening for antibacterial compound from *Aspergillusniger* MTCC 872 broth extract,*EPMD 2011*, 17-18 Mar 2011, *UCP, Madurai*.
7. Hepatoprotective and antipyretic activities of methanolic extract of *Buteamonosperm*a Lam on experimental rats, *EPMD 2011*, 17-18 Mar 2011, *UCP, Madurai.*
8. Amelioration of cisplatin induced nephrotoxicity and doxorubicin induced cardiotoxicity by *Terminaliachebula* extract in Swiss albino mice, *EPMD 2011*, 17-18 Mar 2011, *UCP, Madurai*.
9. Genotyping of GSTM 1& LDL R genes polymorphism studies in coronary artery disease, *MMDD 2012*, 28-29 Mar 2012, *UCP, Madurai.*
10. Comparition of antifungal and antibacterial activity of *Ficusglomerata* by using formulations with selected marketed products, *MMDD 2012*, 28-29 Mar 2012, *UCP, Madurai.*
11. Synthesis and antibacterial evaluation of silver nanoparticles from soil microbes, 8th AASP, Oct 2107, *JSS Mysore*.
12. Determination of bacterial resistance by efflux pump assay, IPC, Dec 2017, *Chhattisgarh*.
13. *In-silico* docking studies on isoflavones targeting Bcl-2- an anti-apoptotic protein, IPC, Dec 2017, *Chhattisgarh*.
14. Ascidians- Marine invertebrate 'Wonder', 6th Indo West Indies Conference on Challenges & Recent Trends in Pharmaceutical Sciences, 14th July 2018, APP, Rajasthan.
15. Biosynthesis and cytotoxic study of Kojic acid from *Aspergillusniger*, II World Cancer Congress, Bangalore Health Care Summit-2018, 25-26 Sep 2018, Royal Orchid Resort & Convention Centre, Bangalore.
16. Efflux modulating activity of *Mucunacochinchinensis* seed extracts, II World Cancer Congress, Bangalore Health Care Summit-2018, 25-26 Sep 2018, Royal Orchid Resort & Convention Centre, Bangalore.

PAPERS PUBLISHED/COMMUNICATED IN PEER REVIWED JOURNALS

1. Natarajan K, KumareshJawahar N. Effect of Mucuancochinchinensis extracts on efflux pump in fungal strains. International Journal of Current Pharmaceutical Research (2020) 12(4). pp 94-96.
2. Deekshita HS, Natarajan K, VineethChandy. A Review- p-Glycoprotein and its role in cancer. Trends in Drug Delivery (2020) Vol 7: Issue 2.pp 26-34.

3. Pushpaveni C, ShafiaFarheen F, Arun Kumar C, Natarajan K, VineethChandy. Phytoconstituents of *Ecliptaalba* targeting various protein sequences of corona virus: An *in-silico* approach. Research & Reviews- A Journal of Drug Design & Discovery (2020) Vol 7: Issue 2: pp 28-51.
4. Natarajan K, Sangeetha S, VineeethChandy. HPTLC Method Development and Validation of Genistein and Daidzein Estimation in *Mucunacochinchinensis* Seed Extracts. Research &Reviews: A Journal of Drug Formulation, Development and Production. (2020) Vol 7: Issue 1: pp 16-25
5. Natarajan K, Gopinath E, Alin Bose, VineethChandy. Toxicity studies on ethyl acetate extract of *Mucunacochinchinensis*seed. International Journal of advanced Research in Pharmaceutical & Biosciences (2018) Vol 8: Issue 3; pp 1-7.
6. Natarajan K, Sirajudeen MA, VineethChandy. Hyaluronan- a novel polymer Isolated from mutated clinical bacterial isolate. International Journal of Pharmacy and Pharmaceutical Sciences (2018)Vol 10, Issue 1. pp:208-10.
7. Kumaresapillai Natarajan, Nallaperumal Narayanan, NatesanRavichandran, Natarajan Chidambaranathan. Effect of Mucunacochinchinensis on 7,12-dimethyl benzanthracene induced mammary carcinoma. Innovare Journal of Health Sciences. (2016) Vol 4, Issue 3, pp: 4-8
8. Natarajan K, Rashid T, Shuhaib CK, Balu V. *Azimatetracantha* Lam against causative pathogens in diabetic foot infections. Innovare Journal of Health Sciences (2014) Vol 2, Issue 2, pp: 9-12. Citation- 1.
9. Kumaresapillai Natarajan, Nallaperumal Narayanan, NatesanRavichandran, KeddalGovindaramLalitha. Antioxidant and anticancer activity of *Mucunacochinchinensis* (lour.) cheval seeds. *International Journal of Pharmacy and Pharmaceutical Sciences* (2013) Vol 5, Issue 4, pp: 646-648. Impact factor- 1.59.
10. Kumaresapillai Natarajan, Nallaperumal Narayanan, NatesanRavichandran. Pharmacognostical characterization, phytochemical and antimicrobial evaluation of *Mucunacochinchinensis* (lour.) Cheval seeds. *Journal of Pharmacy Research* (2013)Vol 6, Issue 3, pp: 318-323.
11. Williams ArputhaSundar, Kumaresapillai Natarajan. Isolation, purification and medium optimization of lipase enzyme production strains of Aspergillusniger isolated from natural sources. *International Journal of Pharmacy and Pharmaceutical Sciences* (2013) Vol 5, Issue 2, pp: 321-324.
12. Natarajan K, Narayanan N and Ravichandran N. Review on "*Mucuna"* - The wonder plant. *International Journal of Pharmaceutical Sciences Review and Research* (2012) Vol 17, Issue 1, pp: 86-93. Impact factor- 1.5. Citation- 2.
13. SathishRengarajan, M. Rani, and Natarajan Kumaresapillai. Study of Ulcer Protective Effect of *IpomeaBatatas*(L.) Dietary Tuberous Roots (sweet potatoes). *Iranian Journal of Pharmacology & Therapeutics* (2012) Vol 11, Issue 1, pp: 36-39. Citation- 05.**Science Citation Indexed**
14. Sathish R, BhushanVyawahare, K.Natarajan. Antiulcerogenic activity of *Lantana camara* leaves on gastric and duodenal ulcers in experimental rats. *Journal of Ethnopharmacology*(2011) Vol 134, Issue 1, pp: 195-197. Impact factor- 3.728. Citation- 39. **Science Citation Indexed**

15. Natarajan Kumaresapillai, Riyaz Ameer Bashaand RengarajanSathish..Production and evaluation of chitosan from *Aspergillusniger* MTCC strains, *Iranian Journal of Pharmaceutical Research.* (2011) Vol 10, Issue 3, pp: 553-558. Impact factor- 0.637. Citation- 13.**Science Citation Indexed**
16. Sathish R, AlokSahu, K. Natarajan. Antiulcer and antioxidant activity of ethanolic extract of *Passiflorafoetida*L. *Indian Journal of Pharmacology.* (2011) Vol 43, Issue 3, pp: 336-339. Impact factor- 0.727. Citation- 25. **Science Citation Indexed**
17. Natarajan K, Ramanathan S., Sathish R. and C. Amudhadevi. Invitro cytotoxic study on crude extracts of marine invertebrate animal *Polyclinummadrasensis*, *Asian Journal of Pharmaceutical and Technology*. (2011) Vol 1, Issue 4, Pg 152-154. Citation- 1.
18. Sathish R, P. Sravan Kumar, K. Natarajan, N. Sridhar. Hepatoprotective and Anti Pyretic Activities of Methanolic Extract of *Buteamonosperma*Lam Stem Bark In Wister Rats, *Asian Journal of Pharmaceutical and Technology* (2011) Vol 1, Issue 4, Pg 130-133. Citation- 2.
19. Lalitha, KG, R. Sathish, T. Regupathi, K. Natarajan, P. Kalaiselvi, T. Venkatachalam..Anti-inflammatory activity of barks of *Evodialunu-ankenda*(Geartn) Merr, *Journal of Pharmacy Research* (2011) Vol 4, Issue 3, pp: 639-640. Impact factor- 2.36.
20. Natarajan K, R. Sathish, T. Regupathiand A. Riyaz. Antibacterial activity of crude extracts of marine invertebrate *Polyclinummadrasensis* Sebastian. *Indian Journal of Science and Technology* (2010) Vol 3, Issue 3, pp: 303-304. Citation- 17.**Science Citation Indexed**
21. Natarajan K, R. Sathish, K.G. Lalitha. Antitumour activity of methanolic extract of *Polyclinummadrasensis*Sebastian. *Journal of Pharmacy Research* (2010) Vol 3, Issue 8, pp: 1933-1935. Impact factor- 2.36.
22. Natarajan K, S. Syed Rabiya, R. Sathish. Screening for antibacterial compound in broth extracts of *Aspergillusniger* MTCC 2208, *Drug Invention Today* (2010) Vol 2, Issue 8, pp: 385-386. Impact factor- 0.64.
23. Natarajan K, S. Tamilarasi, R. Sathish, C. Amudhadevi and T. Regupathi. A Study on Tri Calcium Phosphate Solubilisation Efficiency of Soil Microbes. *Asian Journal of Research Chemistry* (2010) Vol 3, Issue 4, pp: 1054-1057. ICV-5.11.
24. Sathish R, K. Natarajan and MukeshMadhavraoNikhad. Effect of H*ygrophilaspinosa*T.Anders on ethylene glycol induced urolithiasis in rats. *Asian Journal of Pharmaceutical and Clinical Research* (2010) Vol 3, Issue 4, pp: 61-63.
25. Sathish R, MohdHasib Ahmed, K. Natarajan, K.G. Lalitha. Evaluation of wound healing and antimicrobial activity of *Lanneacoromandelica*(Houtt) Merr. *Journal of Pharmacy Research* (2010) Vol 3, Issue 6, pp: 1225-1228. Impact factor- 2.36.
26. Sathish R, K. Natarajan and S. Selvakumar. Antidiabetic activity of *Swieteniamahagoni*seed powder in alloxan induced diabetic mice.*Research Journal of Pharmacology and Pharmacodynamics* (2010)Vol 2, Issue 4, pp: 296-299.
27. Sathish R, M. Rani, K. Natarajan, T. Regupathi, S.Selvakumar. Prophylactic effect of *Swieteniamahagoni*Jacq seeds on multiple low-dose streptozotocin induced type–I

diabetes in mice. *Journal of Pharmacy Research* (2010)Vol 3, Issue 12, pp: 3121-3122. Impact factor- 2.36

SEMINARS/SYMPOSIA/ CONFERENCES ORGANIZED

1. **2010**. Organized one day ***Seminar and Workshop on Alternatives to the Use of Animals in Life Science Education*** sponsored by Mahatma Gandhi Doerenkamp Center, Bharathidasan University, Trichy, held at Ultra College of Pharmacy, Madurai on 26th Nov 2010.

2. **2011**. Executive member in ***National conference on 'Evolving paradigms in molecular pharmacology & drug design (EPMPD 2011)*** held at Ultra College of Pharmacy, Madurai on 17 & 18th Mar 2011.

3. **2012**. Executive member in DST and DBT sponsored ***National seminar in Mathematical Modelling In Drug Development and Drug Discovery (MMDD 2012)***. 28 & 29th Mar 2012, held at Ultra College of Pharmacy, Madurai.

4. **2018**. Organized one day ***National Conference on Innovation in Drug Discovery and Drug Delivery*** sponsored by Luminas Pharmaceuticals P Ltd, Chennai, held at T. John College of Pharmacy, Bangalore on 23rd Mar 2018.

5. **2020**.Organized***National Webinar on BioprospectingAsicdians*** on 12th Aug 2020.

6. **2020**. Organized ***National Webinar on Advanced Molecular Diagnostic Techniques*** on 24th Aug 2020.

7. 2020.Organized***National Webinar on In-vitro Approaches in Drug Discovery for Cancer*** on 10th Sep 2020.

SEMINARS/SYMPOSIA/ CONFERENCES ATTENDED

1. National seminar on **Biodiversity Conservation and Management**, 23 & 24 July 2005. Organized by Biotech Consortia, Department of Biotechnology and the International Centre for Bioresources Management (ICBM), Malankara Catholic College, Mariagiri, Kaliyakavilai, K.K.District.

2. A seminar on **New Frontiers of Chromatographic Separation**. 13 October 2007, held in Ultra College of Pharmacy, Madurai.

3. International Conference on **Biodiversity Conservation and Management**. 3-6th Feb 2008, Rajeev Gandhi Chair in Contemporary Studies, Cochin University of Science and Technology, Cochin.

4. ISTE sponsored **National Symposium on the Impact Newer Technology on the Future of Pharmacy and Science**. 16-20th June 2008, held in Padmavathi College of Pharmacy, Krishnagiri main road, Dharmapuri, Tamilnadu.

5. Symposium on **(4D) Diverse Dimensions of Drug discovery**. 28th July 2008, held in Ultra College of Pharmacy, Madurai.

6. Seminar on **Biotechnology: UK and Indian Perspectives**. 11 & 12th Sep 2009, held in Anna University, Organized jointly by British Council and Anna University.

7. Industry- Institution Interaction Programme- **Progress areas in Pharmaceutical Industries**. 20th Nov 2009, held in Ultra College of Pharmacy, Madurai, Organized in eve of 48th National Pharmacy week celebration.

8. International conference on **Recent Advances in Drug Discovery.** 22-24th Oct 2010, held in University College of Pharmaceutical Sciences, Kakatiya University, Warangal.

9. **Indo-American Pharmaceutical Regulatory Symposium.** 20 and 21 Nov 2010, Organized by Department of Pharmaceutics, Faculty of Pharmacy, Sri Ramachandra University, Chennai.

10. Seminar and Workshop on **Alternatives to the Use of Animals in Life Science Education.** 26th Nov 2010, Organized by Ultra College of Pharmacy in collaboration with MGDC, Bharathidasan University, Trichy.

11. CSIR and ICMR sponsored **National conference on Evolving Paradigms in Molecular Pharmacology and Drug Design (EPMD 2011)**. 17 and 18th Mar 2011, held in Ultra College of Pharmacy, Madurai.

12. AICTE sponsored **National Seminar on Recent Advances and Factors Associated with Herbal Drugs**. 1st and 2nd July 2011, Organized by JKKMMRF- College of Pharmacy, B. Komarapalayam.

13. CPCSEA sponsored One day Workshop on **Alternatives to Animal Use in Toxicology**. 3rd January 2012, Organized by IIBAT, Padappai, Chennai.

14. DST and DBT sponsored **National seminar in Mathematical Modeling In Drug Development and Drug Discovery (MMDD2012)**. 28&29th March 2012, held at Ultra College of Pharmacy, Madurai.

15. International conference on **Natural products in the management of cancer, diabetes and viral infections (Phytocongress2013)**. 7 & 8th March 2013, Organized by CARISM, SASTRA University, Thanjavur.

16. National workshop on **Innovative technologies in novel drug delivery system-Current challenges &future opportunities (ITNDDS' 13).** 30th November 2013, Organized by K. M. College of Pharmacy, Madurai.

17. Faculty Development Program on **Writing Proposal for Funded Research Projects in Management Sciences.** 4th May 2017, organized by T. John College, Bangalore.

18. One Day National Seminar on **Recent Trends in Global Pharma Industries – Role of Pharmacists.** 1st Dec 2017, organized by Annaiveilankanni's Pharmacy College, Chennai.

19. One day workshop on **Herbal Plants for home remedies**. June 2018, held at Biocenter, Bangalore

20. International conference- **6th Indo West Indies Conference on Challenges & Recent Trends in Pharmaceutical Sciences**. 14th July 2018 organized by APP, Rajasthan, held at Shrinathji Institute of Pharmacy, Nathdwara, Rajasthan.

21. National conference – Biodiversity and conservation of Medicinal Plants. 9th Nov 2019 organized and held at T John College of Pharmacy, Bengaluru

22. Online FDP- 4 Nos

23. E-Quiz- 9 Nos

24. International webinars – 5 Nos