

BIOGRAPHY



Prof. A. Puratchikody, has Ph.D in Medicinal Chemistry and is Heading the Department of Pharmaceutical Technology of Anna University Chennai at BIT Campus in Trichy, India. She has more than 25 years of advanced research work which has been recognized by Innovation Award 2015, and Prof. S.P.Thyagarajan - Prof.S.Rajaraman Endowment Award 2011, Young Women Scientist Award 2008, and Young Scientist Research award 2006. She has undergone Post-doctoral studies under **Indian National Science Academy (INSA)** Visiting Fellowship **2019-20** at CSIR-North East Institute of Science and Technology, Jorhat, Assam. She has published more than 100 publications in reputed International and National Journals with high Scholar index. She has been awarded a process patent for isolation of compounds acting on neuronal system. Her proven record in fast tracking research with use of computer aided drug design has helped her to work around system thinking, form multi-disciplinary research teams to undertake result oriented research in System biology, synthesis of new chemical entities, and process development for identifying bioactive molecules from natural sources and pharmacological evaluation by *invitro* and *invivo* methods. As part of drug discovery programme, she has developed a good number of novel heterocyclic nucleus containing indoles, thiazoles, oxazoles, imidazoles and benzimidazoles etc. Quantum of research work has been carried out with fourteen medicinal plants such as *Cedrus deodara*, *Mallotus philippensis*, *Indigofera aspalathoides*, *Caesalpinia pulcherrima*, *Cyperus rotundus*, *Quassia amara*, *Aegle marmelos*, *Vitex negundo* etc. She successfully headed the research on retro synthetically synthesized drugs of high therapeutic value by isolating natural product isolated from *Psammophysilla purpurea* a marine organism. She has taken multi institutional effort to publish package of practices for twenty four Android apps in Google play store. This has been developed in concern with top ten endangered plants identified by Government of India. She has received funded projects from DST, DBT, UGC, TNSCST India. She had been the Director, Academic courses of then Anna University, Tiruchirappalli. She has served on the board of many university organisations.

She has been co-ordinator of COVID -19 National Bioinformatics Online Hackathon held between 29 April -15 August 2020 in association with Spoken Tutorial, IIT Bombay, Climate smart Technologies, Coimbatore DErBI Foundations, Bangalore, Madras School of Social Work, Chennai. This event is endorsed by AICTE, MHRD'S innovation cell and Ministry of Skill Development and Entrepreneurship (MSDE), Skill India, Director General of Training (DGT), National Skill development Corporation (NSDC), PMKVY, and National Institute of Entrepreneurship and Small Business Development (NIESBUD).



BIODATA

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http://www.aubit.edu.in/pharma1/Pharma_pdf/puratchikodi.pdf

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www.researchgate.net/profile/Ayarivan_Puratchikody

<http://scholar.google.co.in/citations?user=WlbGAKQAAAAJ&hl=en>

Total Research Citations score 1190 and h_{index} 21, i10 index 47

Nationality : Indian	Sex & Marital Status : Female, Married
Date of Birth : 20th June,1970	Proficient Languages : English,Tamil
Date of Joining in University: 25.02.2003	Professional experience: 27 years
Date of Retirement: 20.06.2030	

Areas of Research Experience and Areas of Interest

- Biomarker and target identification using system biology approaches
- New Drug Development using computer aided drug design
- Synthesis of new chemical entities
- Isolation and Characterization of Bioactive molecules from Natural Products
- Screening of Bioactive Molecules by *invitro* and *invivo* methods
- Isolation of Bioactive Molecules using High Pressure Liquid Chromatography

Areas of Teaching

- Medicinal Chemistry
- Synthetic Chemistry
- Pharmaceutical Chemistry
- Computer aided drug design
- Modern Instrumental Analytical Techniques

Educational Qualification

Ph.D	2006
M. Pharmacy	1996
B. Pharmacy	1992

Educational Qualification

Ph.D	2006 (Chemistry - Pharmaceutical Chemistry)
M. Pharmacy	1996 (Pharmaceutical Chemistry)
B. Pharmacy	1992 (Pharmacy)

Professional Experience

S.No.	Institutions	Department	Duration
1	Periyar College of Pharmaceutical Sciences for Girls, Tiruchirappalli-620021	Pharmaceutics and Pharmaceutical Chemistry	09 Years
2	Bharathidasan Institute of Technology, Bharathidasan University, Tiruchirappalli-620024	Pharmaceutical Technology	04 Years
3	Anna University of Technology Tiruchirappalli, Tiruchirappalli-620024	Pharmaceutical Technology	14 Years

Awards / Honours

1. **Prof. M.L. Khorana IJPS Best Paper Award** 2019 in the area of Pharmaceutics & biopharmaceutics during the 73rd IPC at Hyderabad on 6 th July 2024.
2. **Motivational Icon Award During Anantara Cultural Fiesta** from Dhanalakshmi Srinivasan University, Tiruchirappalli on 22.03.2024.
3. **Thanga Tharagai Award** under the category of Best Educator and Researcher from Indira Ganesan Group of Educational Institutions , Tiruchirappalli on 16.03.2024.
4. **Best NSS Programme officer Award**, at Vivekanantha auditorium, Anna University Chennai on 28.04.2023.
5. Head of the Department of Pharmaceutical Technology, BIT Campus, Trichy 2024 from 16.12.2019 to 14.03.2024.
6. **Co-ordinator**, COVID -19 National Bioinformatics Online Hackathon organized by Anna University, BIT Campus in association with IIT Bombay, Climate smart Technologies Coimbatore, Derbi foundations Banglore, MSSW Chennai organized **COVID -19 National Bioinformatics Online Hackathon** held between 29 April –July 30, 2020, endorsed by AICTE, MHRD’S innovation cell and Ministry of Skill Development and Entrepreneurship.
7. Certificate of Appreciation **Dr. P.D. Sethi Memorial National Awards 2019**, for Best research paper on Identification of Silver Nanoparticle-shaping *Tridax procumbens* Phytoconstituent by Theoretical Simulation and Experimental Correlation, published in Indian J Pharm Sci 2019;81(5):900-912.
8. **Indian National Science Academy (INSA) Visiting Fellowship 2019-20** at CSIR-North East Institute of Science and Technology, Jorhat, Assam between 16.08.19 to 16.10.19
9. **Won in I and II Phases of BioSolveIT GmbH - scientific challenge**, for the proposal “Chemical Space based design of PCSK-9 inhibitors for Coronary Vascular Diseases” and received free BioSolveIT licenses for 3 months (I Phase-28 Feb 2019) and granted a free license extension by 9 months (II Phase-04 June 2019).
10. Board of study member, Pharmaceutical Technology in Anna University, Chennai, Manonmanium Sundaranar University, Tirunelveli Dhanalakshmi Srinivasan College, Perambalur, (2019-21), PAAVAI Engineering College (2019-21), Namakkal, Mahindra Engineering College, Namakkal, (2019-21),
11. Co-ordinator, Memorandum of understanding between Universitie Sains Malaysia and Anna University, Chennai, 2017.
12. President, Tamilnadu Science Forum, Tirichirappalli District, Nov.2017
13. **Innovation Award 2015** for developing an innovative process to isolate a neurologically active compound, offered by Centre for Technology Development and Transfer, Anna University Chennai.
14. Co-ordinator, Women forum, Indian Pharmacist Association, Tamilnadu branch, 2012
15. **Prof.S.P.Thyagarajan - Prof.S.Rajarajan endowment award 2011** for filing outstanding patent in the field of Biomedicine by Indian Association of Biomedical Scientist.

16. **Travel Award** received from **Department of Science and Technology, New Delhi for presenting paper at UKPharmSci2010 - The Science of Medicines, East Midland Conference Centre, University Park, Nottingham NG72RJ, UK, 1st -3rd September 2010.**
17. Advisor / Evaluator, National Children's Science Congress-2009, Tamilnadu Science Forum.
18. **Tamil Nadu Young Women Scientist Award 2008** instituted by Science city, Department of Higher Education, Government of Tamil Nadu.
19. Director, Academic Courses of Anna University Tiruchirappalli from Aug 2009 to Sep 2012.
20. Board of Study member, Department of Pharmaceutical Technology, Anna University of Technology, Tiruchirappalli, 2007
21. Head of the Department of Pharmaceutical Technology for the period of 2007-2009.
22. Research Board Member, Anna University Tiruchirappalli, 2008-2012
23. Governor nominee in the Academic Council Member of Thiruvalluvar University, Vellore
24. Wound Healing activity of seed extract of *Annona reticulate* BIOSPARK 2007, state level seminar in Pavendar Bharathidasan College of Arts and science on 29th Feb 2007. - Best Paper Award received.
25. "Invitro evaluation of Plant Extracts and their shampoo formulations against Bacteria, Yeast, Fungi and the isolates from the volunteers with dandruff," BIOSPARK 2007, state level seminar in Pavendar Bharathidasan College of Arts and science on 29th Feb 2007.- Best Paper Award received.
26. Inclusion of name in the preeminent directory of Marquis Who's Who in Science and Engineering, 2006-2007
27. DST (Department of Science and Technology) – SERC (Science and Engineering council), Government of India - **Fast track Young Scientist Research award** - Rs.9,36,000 - for the project of "Isolation and Characterisation of Bioactive molecules from the marine organisms".
28. Certificate of appreciation for participation of VISION2020 project 2006.
29. **Thiru.Gnana Sebastian - Therese Educational & Charitable Endowment Award** for Best Outgoing Student in M.Pharmacy, 1995-96.
30. Qualified in Graduate Aptitude Test in Engineering 1994 (GATE-94)

RESEARCH				
Ph.D Title	Synthesis, Spectra and Biological Activities of Some New 2-(<i>substituted</i>)-4, 5-diphenyl-1 <i>H</i> -imidazoles			
Date of viva-voce	17 Jan 2006			
Citations scores	Scopus	Google scholar	h_{index}	i10 index
	835	1790	21	47
LIST OF PUBLICATIONS - Total 108				

1. N. Irfan, Prakash Vaithyanathan, Harishchander Anandaram, S. Mohammed Zaidh, S. Priya Varshini & **A. Puratchikody** Active and allosteric site binding MM-QM studies of Methylidene tetracyclo derivative in PCSK9 protein intended to make a safe antilipidemic agent, **Journal of Biomolecular Structure and Dynamics**, DOI: [10.1080/07391102.2023.2239928](https://doi.org/10.1080/07391102.2023.2239928), (2023), Received 17 Apr 2023, Accepted 08 Jul 2023, Published online: 26 Jul 2023, Publisher: Taylor and Francis. ISSN (Online): 1538-0254
2. Chandrasekar Ponnusamy, **Puratchikody Ayarivan**, Preethi Selvamuthu and Subramanian Natesan, Age-Related Macular Degeneration - Therapies and Their Delivery, **Current Drug Delivery**, DOI: [10.2174/1567201820666230510100742](https://doi.org/10.2174/1567201820666230510100742), ISSN (Online): 1875-5704, Published online: 09 June, 2023, Publisher: Bentham science
3. Sakthivel Balasubramaniyan, Navabshan Irfan, and **Puratchikody Ayarivan**, Bioisosteric replacements of tyrosine kinase inhibitors to make potent and safe chemotherapy against malignant cells, **Journal of Biomolecular Structure and Dynamics** (TBSD), Article ID:

TBSD 2146751. doi.org/10.1080/07391102.2022.2146751 Received 04 Jul 2022, Accepted 25 Oct 2022, Published online: 22 Nov 2022

4. Ramalakshmi Natarajan, **Ayarivan Puratchikody**, and Arunkumar Subramani, QSAR, Docking on pyrroles /pyrrolidines as inhibitors of Notum carboxylesterase, "**Current Chemical Biology**" 15(3), 2021, 234-248. doi.org/10.2174/2212796815666211026110125.
5. A. Umamaheswari, S. Lakshmana Prabu, S. Adharsh John, **A. Puratchikody**, Green synthesis of Zinc Oxide Nanoparticles using leaf extracts of *Raphanus sativus var. Longipinnatus* and evaluation of their anticancer property in A549 cell lines, **Biotechnology Reports, (Impact Factor 1.8)**, 2021; 29: e00595.
6. Sakthivel Balasubramaniyan, Navabshan Irfan, Senthil kumar Chinnaiyan, Umamaheshwari Appavoo and **Puratchikody Ayarivan**, Synthesis and biological evaluation of virtually designed fluoroquinolone analogs against fluoroquinolone-resistant *Escherichia coli* intended for UTI, **New Journal of Chemistry**, <https://doi.org/10.1039/D0NJ00657B>, **IF 3.069**. Submitted, 07 Feb 2020, Accepted 02 Jul 2020 First published 13 Jul 2020. Publishers: The Royal Society of Chemistry, Indexed in Scopus and ISI.
7. Sakthivel Lakshmana Prabu, Appavoo Umamaheswari, **Ayarivan Puratchikody**, Phytopharmacological potential of the natural gift *Moringa oleifera* Lam and its therapeutic application: An overview, **Asian Pacific Journal of Tropical Medicine**, 2019; 12(11): 485-498. **DOI:** 10.4103/1995-7645.271288, **IF 1.772**, Date of Submission 22-Dec-2018, Date of Decision 26-Sep-2019, Date of Acceptance 18-Oct-2019, Date of Web Publication 26-Sep-2019. Publishers: Hainan Medical University (HMU), China.
8. N. Irfan and A. Puratchikody*, Identification of Silver Nanoparticle-shaping *Tridax procumbens* Phytoconstituent by Theoretical Simulation and Experimental Correlation, **Indian J Pharm Sci** 2019;81(5):900-912. doi: 10.36468/pharmaceutical-sciences.585.
9. S. Lakshmana Prabu, **A. Umamaheswari**, A. Puratchikody. *In silico* design for drug discovery and development: From Bench to market. **Journal of Drug Design and Discovery Research**. 2019; 1(1): 21-32.
10. **Ayarivan Umamaheswari, A Puratchikody, A.** and Hari, N. "Synthesis and investigation of therapeutic potential of isoform specific HDAC8 inhibitors for the treatment of cutaneous T cell lymphoma" "**Anti-Cancer Agents in Medicinal Chemistry**", 19, 2019, 916-934, **IF 2.180**. **DOI:**10.2174/1871520619 666190301150 254, **Bentham Science Publishers, ISSN: 1871-5206**. (Received: March 12, 2018, Revised: June 08, 2018, Accepted: February 07, 2019).
11. **Puratchikody**, Appavoo Umamaheswari, Navabshan Irfan, Shweta Sinha, S. L Manju, Meera Ramanan, Gayathri Ramamoorthy, Mukesh Doble "A novel class of tyrosine derivatives as dual 5-LOX and COX-2/mPGES1 inhibitors with PGE2 mediated anticancer properties", **New Journal of chemistry**, 43, 2019, 834-846 **IF 3.201**. DOI: 10.1039/c8nj04385j, The Royal Society of Chemistry. **ISSN: 1144-0546**. (Received 28th August 2018, Accepted 3rd December 2018).
12. **Ayarivan Puratchikody**, Irfan Navabshan, Balasubramaniyan Sakthivel, "Conceptual Design of hybrid PCSK9 lead inhibitors against Coronary Artery Disease", **Biocatalysis and Agricultural Biotechnology**, 17, 2019, 427-440. **IF 1.43**, DOI: 10.1016/j.bcab.2018.12.014 (Available in online 17 Dec 2018). **ISSN: 1878-8181. IF 2.26**. (Received 1 October 2018; Accepted 11 December 2018).
13. Ramalakshmi Natarajan, **Ayarivan Puratchikody**, Vignesh Muralidharan, Mukesh Doble and Arunkumar Subramani, "2D QSAR Analysis of Substituted Quinoxalines for their Antitubercular and Antileptospiroal Activities" Current computer aided drug design, **15**(2), 2019, 182-192. **IF 1.053** Oct 11. doi: 10.2174/1573409914666181011145922. **ISSN:1573-4099**. (Received: July 05, 2018, Accepted: October 03, 2018).
14. **Ayarivan Puratchikody**, Appavoo Umamaheswari, Navabshan Irfan, Dharmarajan Sriram. Molecular Dynamics Studies on COX-2 Protein-tyrosine Analogue Complex and Ligand-based Computational Analysis of Halo-substituted Tyrosine Analogues, **Letters in Drug Design & Discovery**, 2018 Sep 14 10.2174/1570180815666180627123445, ISSN: 1875-628X. (Received: February 02, 2018, Accepted: June 21, 2018).

15. Balasubramaniyan, Sakthivel, Irfan Navabshan, Appavoo Umamaheshwari, **Ayarivan Puratchikody** "Design and virtual screening of novel fluoroquinolone analogs as effective mutant DNA GyrA inhibitors against Urinary Tract Infections causing fluoroquinolone resistant Escherichia coli" **RSC Adv.**, **8**, 2018, 23629-23647, **IF: 3.01** (Received 2nd March 2018 Accepted 21st June 2018 DOI: 10.1039/c8ra01854e, Publishers: The Royal Society of Chemistry, Indexed in Scopus and ISI)
16. Umamaheshwari, A, Lakshmana Prabu, S. **Puratchikody, A** Biosynthesis of zinc oxide nanoparticle: a review on greener approach, **MOJ Bioequivalence & Bioavailability**, **5**(3), 2018, 151-154, MedCrave Publishing Group, USA, doi: 10.15406/mojbb.2018.05.00096 ISSN: 2573-2951. (Received: May 31, 2018 | Published: June 12, 2018)
17. Irfan, N. and Puratchikody, A. "Advancement of total phytoconstituent extraction process by new way factor analysis for *Tridax procumbens* L." **International Research Journal of Pharmacy**, **8** (10), 2017, 176-173. Moksha Publishing House, India, **IF: 0.751**, doi: 10.7897/2230-8407.0810202, ISSN 2230 - 8407 (Received on: 20/09/17 Approved for publication: 28/10/17)
18. Umamaheshwari, A. Puratchikody, A. Lakshmana Prabu, S. Jayapriya, T. "Phytochemical screening and antimicrobial effects of *Musa Acuminata* bract", **International Research Journal of Pharmacy**, **8** (8), 2017, 41-44. Moksha Publishing House, India, **IF: 0.751, H index: 1**. doi: 10.7897/2230-8407.088142; ISSN 2230 - 8407. (Received on: 26/07/17 Approved for publication: 20/08/17)
19. Umamaheshwari, A. Lakshmana Prabu, S. and Puratchikody, A. "Drug Affordability in India - an Analytical Review" **MOJ Bioequivalence & Bioavailability**, **3**(6), 2017, 00053, MedCrave Publishing Group, USA, doi: 10.15406/mojbb.2017.03.00053, ISSN: 2573-2951. (Received: August 20, 2017 | Published: September 01, 2017)
20. Kamalakkannan, V., **Puratchikody, A**, Ramanathan, L and Jayapraba S., "Development and validation of a dissolution test with reversed-phase high performance liquid chromatographic analysis for candesartan cilexetil in tablet dosage forms", **Arabian Journal of Chemistry**, **9**(1) 2016, S867-S873, doi: 10.1016/j.arabjc.2011.09.011, **IF: 1.367. H- index: 3** ISSN: 1878-5352, **SCI INDEXED**.
21. Sathya S and **Puratchikody A** "Role of β -sitosterol enriched fraction from the methanolic extract of leaves of *Mallotus philippensis* (Lam.) Muell. Arg. on inflammatory cytokines" **Int. J. of Res. in Pharmacology & Pharmacotherapeutics** **1**(1), 2016, 01-08.
22. Swarnalatha, S. Gayathri S, Lavanya S, Kavithalya G, **Puratchikody A** "Curative Effect of Kaempferol-5-O- β -D-glucopyranoside from Methanolic Extract of *Indigofera aspalathoides* Vahl ex DC against Adjuvant Induced Arthritis in Albino rats", **Int. J. of Res. in Pharmacology & Pharmacotherapeutics** **1**(1), 2016, 09-19.
23. Ajithkumar G, Muthukumar G, Umamaheshwari A, **Puratchikody A**, "Stability- Indicating LC Method for the Determination of Olmesartan Medoxomil in Bulk Drug and Pharmaceutical Formulations" **Int. J. of Res. in Pharmacology & Pharmacotherapeutics** **1**(1), 2016, 156-166.
24. Sakthivel Balasubramaniyan, Navabshan Irfan, Ayarivan Puratchikody, Mathur Gopalakrishnan Sethuraman, Antioxidant and *in vitro* anti-inflammatory activities of *Urechites lutea* leaves, **Int. J. of Res. in Pharmacology & Pharmacotherapeutics** **1**(1), 2016, **77-83**.
25. Ayarivan Puratchikody, Dharmaraj Sriram, Appavoo Umamaheshwari, Navabshan Irfan "3-D structural interactions and quantitative structural toxicity studies of tyrosine derivatives intended for safe potent inflammation treatment", **Chemistry Central Journal**, **10** (24) 2016, **1-19**. doi:10.1186/s13065-016-0169-9, **BioMed Central Publishers, IF: 2.19, H index:20,ISSN: 1752-153X.SCI INDEXED**.
26. Appavoo Umamaheshwari, Irfan Navabshan and **Ayarivan Puratchikody** "In silico molecular interaction studies of chiral heterocyclic analogs of SAHA as selective histone deacetylase 8 inhibitors", **Letters in Drug Design and Discovery**, **12**(9), 2015, **711-727**. doi.10.2174/1570180812666150326 004848. **IF: 0.961, Bentham Science Publishers, IF: 0.961, H index:20,ISSN: 1875-628X. SCI INDEXED**.
27. Subramaniam Swarnalatha, Appavoo Umamaheshwari and **Ayarivan Puratchikody** "Immunomodulatory activity of kaempferol-5-O- β -D-glucopyranoside from *Indigofera aspalathoides* Vahl ex DC (Papilionaceae)", **Medicinal Chemistry Research**, **24** (7), 2015, **2889-2897**. DOI 10.1007/s00044-015-1341-9 **IF: 1.61. Springer Birkhauser Publisher, IF: 1.61. H index: 24. ISSN: 1054-2523. SCI INDEXED**.
28. Arumugam Yasodha, **Ayarivan Puratchikody**, Balasubramanian Narasimhan, Appavoo Umamaheshwari "A Quantitative structure-activity relationship study of antimicrobial activity of 1-aryl / alkyl-4-amino / dimethylamino / pyrrolidino / morpholino pyridinium bromide" **Rasayan Journal of Chemistry**, **8** (2), 2015, 255 -265 **IF:1, H- Index: 2** ISSN:0974 - 1496.

29. **Puratchikody A**, Shanmugarathinam A, Hari PG, Faritha Begam N, Sridhar G, "Formulation and development of sustained release metformin hydrochloride tablet", **The Pharma Innovation Journal**, **4**(2), 2015, 111-113 . ISSN: 2277- 7695.
30. Sellaperumal Sathya and **Ayarivan Puratchikody**, "Standardization of leaves of *Mallotus philippensis* (lam.) Muell. Arg. as per WHO guidelines", **International Journal of Pharma and Bio Sciences**, **6**(1): (B), 2015, 679 – 689. ISSN 6299 -0975.
31. Shanmugarathinam, A and **Puratchikody, A.** "Design and study of ritonavir buoyant microspheres by eudragit S100 polymer", **Asian Journal of Chemistry**, **27** (1), 2015. 368-370. ISSN 0975-427X.
32. Sharmila, N., Sundar, T. V., Yasodha, A., **Puratchikody, A.** and Sridhar, B. "Crystal structure of 4-amino-1-(4-methylbenzyl)pyridinium bromide", **Acta Crystallographica**. **E70**, 2014, o1293–o1294. ISSN 1600-5368. doi: 10.1107/S1600536814025343
33. Sruthi S, Dhivya Priya S, Hema R, Rajasekar K, Lakshmana Prabhu S, **Puratchikody A**, Shanmugarathinam A. "Microemulsion – Prophecy of drug delivery system", **World Journal of Pharmacy and Pharmaceutical Sciences**, **3**(10), 2014, 1800-1809. ISSN 2278 – 4357.
34. Shanmugarathinam A, **Puratchikody, A.** "Formulation and characterisation of ritonavir loaded ethylcellulose buoyant microspheres", **J. Pharm. Sci. Res.** **6**(8), 2014, 274-277, ISSN 0975-1495.
35. Nitesh Kumar, Daniel Dhayabaran, MadhavanNampoothiri, Krishnadas Nandakumar, **A. Puratchikody**, Natasha Lalani, Karima Dawood and Aanesha Ghosh, "Atypical Antidepressant activity of 3,4-bis(3,4-dimethoxyphenyl)furan-2,5-dione isolated from heartwood of *Cedrus deodara* in rodents", **Korean Journal of Physiology & Pharmacology** **18**, 2014, 1-5, <http://dx.doi.org/10.4196/kjpp.2014.18.5.1> **Publisher:**Korean Physiological Society and the Korean Society of *Pharmacology* **ISSN:** 1226-4512, **IF:** **1.544**. **SCI INDEXED**. PMID:25352754
36. Subramaniam Swarnalatha and **Ayarivan Puratchikody**, Cytokine Mediated Immunomodulatory Properties ofKaempferol-5-O-β-glucopyranoside from methanol extract of aerial parts of *Indigofera aspalathoides* Vahl ex DC **International Journal of Research in Pharmaceutical Sciences**, **5**(1), (2014), 1-6. ISSN 0975-7538.
37. Arumugam Yasodha and **Ayarivan Puratchikody**, "4-Pyrrolidino/morpholino-1-(4-substituted phenylmethyl/2-ethoxy-2-oxoethyl)pyridinium bromide: synthesis, antimicrobial evaluation and anti-MRSA studies", **International Journal of Pharmacy and Pharmaceutical Sciences**, **6**(5), 2014, 453-458. ISSN:0975-1491.
38. Yasodha, A., Arunachalam, G. and **Puratchikody, A.** "Synthesis and antimicrobial evaluation of 4-amino / dimethylamino-1-aryl / alkylpyridinium bromides", **Journal of Pharmaceutical Sciences and Research**, **6**(4), 2014,184-190. ISSN:2320-5148.
39. Prasanth, V.V., **Puratchikody, A.**, Mathew, S.T. and Ashok, K.B., "Effect of permeation enhancers in the mucoadhesive buccal patches of salbutamol sulphate for unidirectional buccal drug delivery", **Research in Pharmaceutical Sciences**, **9**(4), 2014, 259-268. **IF: 0.8**. ISSN:1735-5362. PMID:25657797
40. Daniel Dhayabaran, Ebinezar Jeyaseeli Florance, Krishnadas Nandakumar, Alagarsamy Shanmugarathinam and **Ayarivan Puratchikody**. "Anticonvulsant study on isolated fraction from ethanolic extract of heart wood of *Cedrus deodara*" **Journal of Natural Medicines**. **68**, 2014, 310-15. DOI 10.1007/s11418-013-0798-4, **IF:1.516**, **Springer Japan KK Publishers,IF:1.516**, **H index: 22**. ISSN:1861-0293.**SCI INDEXED**.
41. Gobardhan Bal, Umamaheswari Appavoo, Shanmugarathinam Alagarsamy and **Puratchikody Ayarivan.**, "Stability-indicating RP-HPLC method for determination of ramipril in drug substance and marketed formulation", **International Journal of Frontiers in Science and Technology**, **1**(2), 2013, 1-18. ISSN 2321-0494.
42. Kamalakkannan, V., **Puratchikody, A.** and Ramanathan, L., "Development and characterization of controlled release polar lipid microparticles of candesartan cilexetil by solid dispersion", **Research in Pharmaceutical Sciences**, **8**(2), 2013, 125-136. **IF: 0.8**. ISSN: 1735-9414. PMID:24019822
43. **Ayarivan Puratchikody**, Ramalakshmi Natarajan, Shanmugam Hema Iswarya and Mukesh Doble., "Synthesis, Leptospirocidal Activity and QSAR Analysis of Novel Quinoxaline Derivatives", **Medicinal Chemistry**, **9**(2), 2012, 275-286. **Bentham Science Publishers** , **IF: 1.60**. ISSN:1875-6638, **SCI INDEXED**. doi:10.2174/1573406411309020010 PMID: 22779788
44. Kamalakkannan, V., **Puratchikody, A** and Ramanathan, L., " Formulation and invitro evaluation of solid lipid micro particles of candesartan cilexetil floating tablets", **Drug delivery letters**, **2**(3), 2012, 202-212. ISSN: 2210-3031. doi:[10.2174/2210304x11202030202](https://doi.org/10.2174/2210304x11202030202)
45. Daniel Dhayabaran, Jeyaseeli Florance, Krishnadas Nandakumar and **Ayarivan Puratchikody**. "Isolation and anxiolytic activity of 3,4-bis(3,4-dimethoxyphenyl) furan-2,5-

- dione from the ethanolic extract of heart wood of *Cedrus deodara*", **Medicinal Chemistry Research**, **21**(11), 2012, 3460–3464. **Springer Birkhauser**, **IF: 1.271**. **H index: 19**. ISSN: 1054-2523. **SCI INDEXED**. 10.1007/s00044-011-9888-6.
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Chapters published in Books-8

S. No.	Title with page no.	Book Title, editor & publisher, ISSN/ISBN No.	Whether peer reviewed.	No. of Co-authors and Date of Publication	Whether you are the main author

1.	Insulin based drug delivery systems	Springer 10.1007/978-981-19-7656-8_15 In book: Natural Polymeric Materials based Drug Delivery Systems in Lung Diseases (pp.259-276) February 2023		S. Lakshmana Prabu, N. Tamilselvan, S.N. Jegasubramaniam, A. Puratchikody, A. Umamaheswari 2023	4 th Author
2.	Sandhoff Disease: Pathology and Advanced Treatment Strategies. In: Drug Delivery Systems for Metabolic Disorders.	Elsevier DOI:10.1016/B978-0-323-99616-7.00011-6 In book: Drug Delivery Systems for Metabolic Disorders (pp.351-358) September 2022		S. Lakshmana Prabu, Teenu Sara Josen, A.Puratchikody, A. Umamaheswari. 2022	3 rd Author
3.	Leptospirosis - A Complete Review	Frontiers in Aninfective agents, Vol 6, Bentham Science Publishers, Singapore, 2021, Pg. 19-43. ISSN (Online): 2705-1080	Peer reviewed	N.Ramalakshmi , S. Arunkumar, A.Puratchikody	3 rd author
4.	Cogent and Strategic Approaches for Gene Delivery with Nanostructures.	"Science of Nanomaterials" for Apple Academic Press, US. 2022 Apple Academic Press, Inc. Co-published with CRC Press (Taylor & Francis), 2022, PG.91-121.		A. Umamaheswari, M. Vijayalakshmi, M. Dhivya Sree, S. Lakshmana Prabu, A.Puratchikody. 2021	5 th Author
5.	Bioremediation approaches for degradation of textile dye effluents. Bioremediation and Green Technologies.	Sustainable Approaches to Mitigate Environmental Impacts. Springer International Publishing. New York, USA, 2021; pp. 113-133. ISBN 978-3-030-64122-1		S. Lakshmana Prabu, A. Umamaheswari, A. Puratchikody. 2022	3 rd author
6.	Near Infrared spectroscopic techniques and its analytical applications in Pharmaceutical Industries	In: Advances in Chemistry Research, Vol.61, Edited by James C.Taylor Published by Nova Science Publisher, New York, USA, 2020, pg 195- 235, ISBN 978-1-53617-627-8.		S.Lakshmana Prabu, A. Umamaheswari, A. Puratchikody 2020	3 rd Author

7.	Molecular modeling of novel COX -2 inhibitors	Computer applications in drug discovery and development Edited by A.Puratchikody S.Lakshmanaprabu A.Umamaheswari	Ayarivan Puratchikody, Appavoo Umamaheswari, Navabshan Irfan, Dharmaraj Sriram 2018	Main Author
8.	Target identification of HDAC 8 isoform for the treatment of cancer.	Published by IGI Global eEditorial Discovery®, USA ISBN13: 9781522573265 ISBN10: 1522573267 EISBN13: 9781522573272 DOI: 10.4018/978-1-5225-7326-5	Appavoo Umamaheswari, Ayarivan Puratchikody, Sakthivel Balasubramaniyan 2018	2 nd Author
9.	Natural Products in drug discovery and development: An overview 317-346	Natural Products-Drug Development Edited by K. Tayung A.Puratchikody S.Ramakrishnan Published by Studium Press (India) Pvt. Ltd, 978-93-80012-65-0	Ayarivan Puratchikody, Algarsamy Shanmugarathinam Manoharan Sinduja, 2014	Main Author
10.	Computer aided drug Design, 347- 388	Studium Press (India) Pvt. Ltd, 978-93-80012-65-0	Manoharan Sinduja, Appavoo Umamaheswari and Ayarivan Puratchikody 2014	Corresponding author

Books Published -3

S.No	Name of the Book	Editors	Publishers	No of Pages/ ISBN/ ISSN
1.	Natural Products- <i>Drug Development</i> (June 2014)	K. Tayung A.Puratchikody S.Ramakrishnan	Studium Press, (India) Pvt. Ltd. and 1st Ed.	Pg. 546 / 978-93-80012-65-0
2.	Computer Applications in Drug Discovery and Development (November, 2018)	A.Puratchikody S. Lakshmanaprabu A.Umamaheswari	IGI Global, 701 E. Chocolate Avenue Hershey, Pennsylvania 17033-1240, USA	1-332/ 9781522573265
3.	International Journal of Research In Pharmacology and Pharmacotheapeutics (Oct - Dec -2016)	A.Puratchikody S. Lakshmanaprabu A.Umamaheswari	IJRPP, Hyderabad	Pg. 166/ 2278 - 2648

S. No	Reference number	Title	Year of Publication	Inventor (s)	Theme of the patent
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1	1785/CHE/2011	Extraction and separation of 3,4-Bis(3,4-dimethoxyphenyl)furan-2,5-dione from <i>Cedrus deodara</i> .	2011 Date of Grant 23.03.2018	Dr.A.Puratchikody and Mr.D.Dhayabaran Type: Indian	Process for the extraction and separation of an active compound from the heart wood of <i>Cedrus deodara</i> that induces anxiolytic and anticonvulsant activity.
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Patents

Post Doctoral Fellow

S.No.	Name of the PI / Mentor	Title of the Project	Funding Agency	Amount Sanctioned	Status(On-going/completed)
1.	Dr. P. Chandrasekar / Dr.A.Puratchikody	Design and development of novel topical nano drug - delivery systems for the efficient treatment of glaucoma by using natural drugs (No.SR/S1/OC-48/2011 15 th October, 2012) 2012-16.	Department of Health Research, New Delhi	Rs 28.98 Lakhs	2020- 2023 Ongoing

Research Students (Ph.D) Supervisor Recognition number: 2150094

S.No	Name of the Candidate	Broad Topic of the Research	Year of admission	No.of Publications
1	N. Ramalakshmi	Syntheses, pharmacological evaluation and QSAR studies of novel quinoxaline derivatives (Awarded, 30 Oct 2012).	Jan 2007	5
2	V.V.Prasanth (Reg.No20086012003)	Formulation and evaluation of salbutamol sulphate buccal patches for unidirectional buccal drug delivery (Awarded, 28 Dec 2012).	July 2008	5
3	V.Kamalakkannan (Reg.No20086012007)	Formulation and evaluation of controlled release solid lipid microparticles of candesartan cilexetil (Awarded, 27 Sep 2013).	July 2008	6
4	D.Dhayabaran (Reg.No20076012001)	Anxiolytic and anticonvulsant activity of 3,4-bis(3,4-dimethoxyphenyl)furan-2,5-dione from the ethanolic extract of heart wood of <i>Cedrus deodara</i> (Awarded, 13 April 2015).	July 2007	4
5	A.Shanmugarathinam (Reg.No20076012004)	Formulation and Evaluation of Buoyant Multiparticulate Drug Delivery Systems of an Antiretroviral Protease Inhibitor (Awarded, 29 April 2015).	July 2007	2
6	A.Yasodha (Reg.No20076012003)	Synthesis and antimicrobial, QSAR, anti-MRSA studies of 4-amino / dimethylamino / pyrrolidino / morpholino -1- aryl / alkylpyridinium bromide (Awarded, 29 May 2015).	July 2007	4
7	S.Swarnalatha (Reg.No20086012005)	Immunomodulatory and antiarthritic activities of kaempferol 5-O- β -D-glucopyranoside from <i>Indigofera aspalathoides</i> Vahl ex DC. (Papilionaceae) (Awarded, 13 May 2016).	July 2008	5
8	S.Sathya (Reg.No20076012002)	Investigation of β -sitosterol enriched fraction from the methanolic extract of Leaves of <i>Mallotus philippensis</i> (Lam.) Muell. Arg. against inflammation. (Awarded, 21 Nov 2016).	July 2007	2
9	A.Umamaheswari (Reg.No20086012002)	<i>In silico</i> design oriented microwave synthesis of chiral heterocyclic analogues of SAHA as HDAC8 inhibitors (Awarded, 12 Dec 2016).	July 2008	3
10	N.Irfan 1418559718	Design, synthesis and biological evaluation of COX-2 Inhibitors as anticancer agents (Awarded, 1 October 2020).	July 2014	4

		JRF Lr.No. AUC/ ROT /BIT / PHARMA /AP/DST/JRF/2013-2014/10-01/001 Date: 25-10-2013 SRF Lr.No. AUC/BIT/R&D-Recruitment/SRF-01/2015-2016 Date: 11-01-2016		
11	S.Balasubramanian 1414759768	<i>In silico</i> design, synthesis and biological evaluation of novel fluoroquinolone analogs with improved potency against fluoroquinolone-resistant <i>Escherichia coli</i> for the treatment of urinary tract infections Synopsis submitted on 07.08.2019 (Awarded, 22 June 2020).	July 2014	2
Total of Publications by Research scholars -38				

Research Projects Received

Sl. No.	Title	Agency	Period	Amount Mobilized (Rs. in Lakhs)
1	"Design, synthesis and evaluation of Novel COX-2 inhibitors of dibromotyrosine derivatives as anti-inflammatory drugs", (No.SR/S1/OC-48/2011 15 th October, 2012) 2012-16. (Collaboration with Dr.D. Sriram (Co-investigator) BITS Pilani Campus, Hyderabad-560 078).	Department of Science and Technology, New Delhi	2013-16	32
2	Project "Evaluation of antimicrobial and anti-HIV1 Reverse Transcriptase activities of <i>Phyllanthus maderaspatensis</i> L. under salt stress", 2012-2015, Co-investigator (No.F.:41-549/2012(SR) dated 17.07.2012) 2012-16. (Collaboration with Dr.S.Ramakrishnan, Principal Investigator Bharathidasan Govt. College for Women, Puducherry-605 003)	University Grants Commission (UGC, New Delhi)	2012-15	14.36
3	"Isolation and Characterization of Bioactive Molecules from Marine Organisms". (No.SR/FT/L-111/2006 dated 14 July 2006). 2006-2009.	Department of Science and Technology	2006-2009	14.36
4	"Evaluation of simvastatin and its metabolites in human Plasma by HPLC" (Thinesh.N, 2010-2011 , TNSCST/SPS/AR/2010-11 dated	Tamil Nadu State council Science and Technology, Chennai under Student Project Scheme	2010-11	0.06

	01.02.2011).			
5	"Synthesis of Indole containing novel amide derivatives as potential HDAC inhibitors". (Mr.G.Muthukumar,2009-10, TNSCST/SPS/AR/2010-11dated 25.02.2010)	Tamil Nadu State council Science and Technology and Department of Biotechnology	2009-10	0.1
6	"Synthesis, Characterization and In-Vitro Anti-inflammatory activities of chalcone derivatives." (G.Sridhar, N. Faritha Begum, R.Raviprasad, BIT/Dean/TEQIP/ 2014-088 dated 12.03.15)	TEQIP Sponsored project under Students Project Scheme,	2014-2015	0.1
7	"Optimization of extraction process using microwave technique in the selected three medicinal plants". (Karunya, N, Arul Neshanth T Mahalakshmi A BIT / Dean / TEQIP / Project Proposal order /2016-083 dated 28.03.16)	TEQIP Sponsored project under Students Project Scheme,	2015-2016	0.05

Seminar Grant Received

- a. **Indian Council of Medical Research sponsored partial Finance assistance ship** for conducting National Level Technical Symposium, 2008 March - Exploring the research Platform for Pharmaceutical Product and Process Development – Amount sanctioned –Rs.25000.
- b. **Council of Scientific and Industrial Research sponsored partial Finance assistance ship** for conducting National Level Technical Symposium, 2008 March - Exploring the research Platform for Pharmaceutical Product and Process Development – Amount sanctioned – Rs. 30000
- c. **Technical Education Quality Improvement Programme (TEQIP-II)** sponsored financial assistance for conducting **Faculty Development programme** on "Current Developments in Life Sciences: An Interdisciplinary Approach" BIT Campus, Anna University, Tiruchirappalli, 19th -25th August 2013- Amount sanctioned – Rs. 100000.
- d. **Technical Education Quality Improvement Programme (TEQIP-II)** sponsored financial assistance for conducting National Level Conference on "Innovation and Future Directions in Pharmaceutical Product and Process Development" BIT Campus, Anna University, Tiruchirappalli, 9th -10th September 2016 – Amount sanctioned – Rs. 50000
- e. **Technical Education Quality Improvement Programme (TEQIP-II)** sponsored financial assistance for conducting **Industrial Workshop on** "Challenges and opportunities in Chemical and Pharmaceutical Industries" BIT Campus, Anna University, Tiruchirappalli, 2nd -3rd September 2016 -- Amount sanctioned – Rs. 100000
- f. Anna University Chennai sponsored one day technical symposium on "**Enhancing the Employability skills and Entrepreneurship qualities for the emerging Pharmaceutical Technocrats**"(4EPT), BIT Campus, Anna University, Tiruchirappalli, 22nd September 2017- Rs.30000

Travel grant received

- **Department of Science and Technology, New Delhi** sponsored conference under International Travel Support Scheme, UK PharmSci 2010- The Science of Medicines between 1st to Sep 3rd 2010, organized by The Academy of Pharmaceutical Sciences of Great Britain at **Nottingham University, Nottingham , UK, Rs. 51812.**
- **Centre for International Co-operation in Science (CICS), Chennai** sponsored conference under International Travel Support Scheme, UK PharmSci 2010- The Science of Medicines

between 1st to Sep 3rd 2010, organized by The Academy of Pharmaceutical Sciences of Great Britain at **Nottingham University, Nottingham, UK, Rs. 20000.**

Chair Person	
1.	DST-SERB Sponsored Programme on Integrated approaches on Drug Discovery and Development-Phytodrugs '23 Chaired the scientific presentation organized by the Department of Biotechnology, Anna University, Tiruchirappalli on 17 Feb 2023.
2.	Anna University, Chennai sponsored Programme on "Conclave for Sustainable Biotechnology", Chaired the scientific presentation organized by the Department of Biotechnology, Anna University, Tiruchirappalli on 22 Sep 2022.
3.	Evaluating e-Presentations in Virtual Sessions in National Level Virtual Symposium on "Extant Scenario in Pharmaceutical Sciences" Organised by Srinivasan College of Pharmaceutical Sciences, Samayapuram, Trichy, Tamilnadu on 11th June 2022
4.	UGC sponsored online refresher programme in Gender studies (Multidisciplinary), evaluation of seminar presentation, and projects proposal organized by Human Resource development, Bharathidasan University on 01.11.2021.
5.	Chaired the scientific presentation on "Chiral and Nano Technology: Application in Drug Design, Development and Use (CNTA 2020)" – Annamalai University – Chidambaram on 06th March 2020.
6.	Chaired a session in Three Days National seminar on "Science & Technology for National development" organized by Indian Science Congress Association (ISCA) at Manipur University, Imphal 3rd April 2017.
7.	Invited as chair person for oral presentations held at 5 th Annual International Convention of Association of Pharmacy Professionals, between 22 nd and 23 rd January 2016, Department of Pharmaceutical Technology, Anna University, Tiruchirappalli.
8.	Invited as chair person for oral presentations held at TEQIP-II sponsored International Conference on Advances in Biological, Chemical and Physical Sciences (ABCPS2017), 13 th - 15 th March 2017. BIT Campus Anna University, Tiruchirappalli.

Invited Lectures (International)

1. Research Discussion on Development of HDAC 8 inhibitors at Nottingham University Malaysia Campus on 6th March 2017.
2. Research Discussion on Development of UTI inhibitors against resistant proteins at University Sains Malaysia, Penang on 9th March 2017.

Invited Lectures

Delivered lectures on

1. "Integrated bioinformatics approaches to identify detective biomarkers for Diabetes and ocular glaucoma" Department of Biomedical sciences, Bharathidasan University on 24 Sep 2024.
2. "Bioactive compounds of food: their role in the prevention and treatment of disease at Vinayaka Mission's College of Pharmacy Guest Lecture series on 10.07.2024.
3. "Bioactive compounds of food: their role in the prevention and treatment of diseases" department of Botany & Microbiology, Jamal Mohamed College Jointly organising a five-day FDP programme on Plant – Microbes interaction for sustainable development for the Botany and Microbiology faculty members on 07.06.2024
4. Latest trends of drug discovery and innovations in pharmaceutical analysis-How to choose mass spectrometer for my application, Thanthai Roever College of Pharmacy, Perambalur on 16.06.2023
5. Recent and Current Aspects of Drug Design - Molecular Docking Approach at Department of Chemistry, Adhiparasakthi College of Pharmacy, on 28.01.2023

6. Implications of computer simulations in design of lead molecules, PG and Research Department of Botany, Jamal Mohamed College, Tiruchirappalli on 19 Jan 2023.
7. Life style diseases at Gender Champion club, Jamal Mohammed College, Tiruchirappalli on 08.09.2022
8. Bioinformatics approaches to identify putative genes for Co-infections, Rabiammal Ahamed Maideen College, Thiruvaraur on 12 July 2022.
9. "Integrated bioinformatics approaches to identify detective biomarkers for Diabetes and ocular glaucoma" at Mother Teresa College of Pharmacy, Illuppur Tamil Nadu on 16 March 2022.
10. International Pharmacist Day Celebration 2021 on "Pharmacy: Always trusted for your health" organized by Srinivasan College of Pharmaceutical Sciences, Samayapuram, Tiruchirappalli on 25th September 2021.
11. AICTE sponsored online Short Term Training Program (STTP) on "Practical Approaches for Next Generation Sequencing Technologies and Data Analysis towards Health care" organized by Department of Biotechnology, K.S. Rangasamy College of Technology, Tiruchengode,
 1. Slot I - 25.12.20,
 2. Slot II- 08.01.2021
 3. Slot III-22.01.2021
12. Role of Medicinal Chemist in drug Discovery, 59th National Pharmacy week celebration, Dr.Kalam College of Pharmacy, Avanam, 26.11.2020.
13. Natural lives Krishna Naturopathy and yoga medical college hospital, Trichy in association with National Institute of Naturopathy, Pune, on 18.11.2020
14. ATAL online FDP on artificial intelligence in drug discovery and Development by Institute of Pharmaceutical Technology, Sri Padmavathi Mahila Visvavidyalayam Women University, Tirupathi held on 2.11.2020.
15. "Implications of the computer simulations for the design of lead molecules" in a national level colloquium on Advancement in Pharmaceutical chemistry and drug discovery organized by Department of Pharmaceutical Chemistry, Annamacharya College of Pharmacy, held on 25 Sep 2020 supported by AICTE and PCI new Delhi.
16. "Design and virtual screening of novel fluoroquinolone analogs against resistant *E.Coli* for urinary tract infections" at Drug Discovery Hackathon on 04 Aug 2020, joint initiative of AICTE, CSIR, MHRD Innovation Cell, office of scientific advisor, Govt of India, NIC and MyGov.
17. "Bioinformatics in Translational Drug Discovery" Organized by The Erode College of Pharmacy, Erode held on 3rd July 2020.
18. Technological Tools To Manage Pandemic Situations, organized by Department of Biotechnology, Dhanalakshmi Srinivasan institute of Research and Technology, Perambalur held on May, 11, 2020.
19. "Economic Development in India: Gender and Social Concerns and panel discussion at Department of Women studies, Bharathidasan University, Trichy on 29.08.19.
20. Drug Discovery and Development, at North East Institute of Science and Technology, Jorhat, Assam on 01.11.2019.
21. *In silico* design, synthesis and biological evaluation of novel fluoroquinolone analogs with improved potency against fluoroquinolone-resistant *Escherichia coli* for the treatment of urinary tract infections at Inaugural Function of Biotechnology Association, Department of Biotechnology, Jamal Mohammed College, Trichy, on 07.09 2019.
22. Bioactive compounds of food: Their role in the prevention and treatment of diseases" International conference on Advances in nutrition and food safety, organised by Department of Nutrition & Dietetics, Seethalakshmi Ramasami College, on 4th March 2019.
23. Innovations in e-learning, National Science day celebration, SBIOA CBSE School, Tiruchirappalli on 28th Feb 2019.

24. Generic medicines, under colloquium series programme, Department of environmental management, Bharathidasan University, Tiruchirappalli on 26.10.2018
25. Computer aided Drug Design, Department of Biotechnology, under colloquium series programme, Bharathidasan University, Tiruchirappalli on 3.10.2018.
26. Women and academic leadership, One week short term capacity building programme for women in higher education, Department of women studies, Bharathidasan University on 26.09.2018.
27. "Design and development of Biologically active molecule", for the B.Pharmacy students at Jeya College of Pharmacy, Thiynindravur, Kanchepuram on 22-01-18.
28. "Design, Synthesis and Evaluation of Novel COX -2 inhibitors of dibromotyrosine derivatives at Department of Pharmacy, Sri Ramachandra University, Porur, Chennai on 23-01-18.
29. Delivered a lecture on "Status of generic drugs in India" in a Two days National seminar on Problems and prospects of Pharmaceutical Industries in India held at Rajah Serfoji Government College, sponsored by ICSSR Thanjavur on 8th February 2018.
30. "Women and environment: the Prism of benevolence" in a two days national seminar on sensitizing the women on environmental issues sponsored by National commission for women held on 23.03.2018.
31. "Drug - Drug Interaction" at Government Polytechnic, Takyal, Imphal on 4th April 2017.
32. "Identification of lead molecules for HDAC Specific Inhibitors: The promise for epigenetic treatments against cancer", A Three Days National seminar on "Science & Technology for National development" organized by Indian Science Congress Association (ISCA) at Manipur University, Imphal 3rd April 2017.
33. "Homology modeling of Gyrase A for UTI infections" a invited lecture delivered at Department of Zoology, Erode college of Arts and Science, Erode, on 18-12-2016.
34. "Development of nutraceutical carriers for functional food applications", UGC Sponsored one day seminar on "Nutrition is the index of health", at Seethalakshmi Ramaswami College, Tiruchirappalli on 1-09-2016.
35. "In silico Design and Development of HDAC 8 inhibitors" TEQIP II Sponsored Two days national conference on " Networking Pharmacology" at Department of Biotechnology, Anna University, Tiruchirappalli on 30-08-2016.
36. "Design and development of anti-inflammatory agents" a invited lecture delivered at Department of Zoology, J.K.K.Nataraja College of Arts and Science, Erode, on 02-02-2016
37. TEQIP II Sponsored Two weeks Faculty Development Programme on "Material Sciences" organised by Department of Physics, Bharathidasan Institute of Technology Anna University, Tiruchirappalli, on 25.07.2015
38. TEQIP II Sponsored Two weeks Faculty Development Programme on "Frontiers Research in Applied Sciences", organised by Department of Chemistry, Bharathidasan Institute of Technology Anna University, Tiruchirappalli, on 04-06-2015.
39. "Design and synthesis of bioactive molecules against infectious diseases", National Science day celebration at Government Arts and Science College, Kulithali on 28-02-15.
40. "Global Warming" organized by the Tamilnadu Science Forum at St.John Britto School, Tiruchirappalli on 02-09-14
41. "Research and Development" Organised by Thanthai Roever College of Pharmacy, Perambalur, on 20-08-2014.
42. "New Drug Development" organized by Academic Staff College, Bharathidasan University, Tiruchirappalli. on 04.08.2014
43. "Anticonvulsant activity of 3, 4 - bis (3, 4 - dimethoxyphenyl) Furan - 2, 5 - dione from the ethanolic extract of heart wood of *Cedrus deodara*" in **Metabolomics-a new frontier in natural products research** organized by the Department of Biotechnology & Bioinformatics, North-Eastern Hill University, Shillong during 23rd to 24th May 2014.
44. "Paradigms of Computing", TEQIP II sponsored Faculty Development Programme organised by Department of Computer Science, Bharathidaan Institute of Technology, Annna University, Tiruchirappalli-24 on 05-12-2013.
45. "Laws governing drugs" , Pharmacist Refresher Programme, Organised by Indian Pharmacist Association Taminadu Branch, at Roever College of Pharmacy, Perambalur, 14th July, 2013.
46. "Identification of Coumarin Derivatives as Novel Class of HDAC inhibitors using Docking Softwares", at Department of Biotechnology, Pavendar Bharathidasan College of Engineering and Technology, Tiruchirappalli on 17th March 2010.
47. "Biodegradable polymers as Nanoparticles in Drug Delivery Systems", in an International Level seminar at Department of Nanotechnology, Bharathiyar University 09th Jan 2009.

48. "Advances in QSAR Modelling" in the National Seminar on Recent Trends in Drug Design and Discovery, in P.E.S College of Pharmacy, Bangalore.,30th Nov 2007.
49. **'Sea Weeds and Marine Algae' Brain storming session under NMTLI programme implemented by CSIR on behalf of Government of India, 25th Aug 2007.**
50. "New Drug Design" BIOSPARK 2007, state level seminar in Pavendar Bharathidasan College of Arts and science on 29th Feb 2007.
51. "New Drug Design", in a national seminar held at Holly Cross College Tiruchirappalli District on 21st Apr 2006.
52. "Drug Interactions" in the Continuing Pharmacy Education programme held at Villupuram on 15th July 2005.
53. "Newer Antibiotics", in the Continuing Pharmacy Education programme held at Tiruchirappalli District on 20th Oct 2002.
54. "Newer Antibiotics" in the Continuing Pharmacy Education programme held at Pudukkottai District, 28th Sep 2002.
55. "Adverse drug reactions" in the Continuing Pharmacy Education programme held at Pudukkottai District, 25th Aug 2001.
56. "Chemistry for Human Life", at Periyar Maniyammai Girls Higher Secondary School, Tiruchirappalli, on 9th Aug 2001.

Seminars/ Conferences/Workshop/FDP Organised

1. Two Days National Level Technical Symposium, Pharmaceutical Tecnology: Latest innovations, challenges and prevailing strategic prospectives (PANACEA'22) organised by the Department of Pharmaceutical Technology and Association of Pharmaceutical Technology students on March 15 and 16, 2020.
2. Anna University BIT Campus in association with IIT Bombay, Climate smart Technologies Coimbatore, Debi foundations Banglore, MSSW Chennai organized **COVID -19 National Bioinformatics Online Hackathon** held between 29 April -09 May 2020, endorsed by AICTE, MHRD'S innovation cell and Ministry of Skill Development and Entrepreneurship.
3. Two Days National Level Technical Symposium, "Imminent prospects of Pharmaceutical Technocrats in expanding scientific realm with modern tools" organised by the Department of Pharmaceutical Technology and Association of Pharmaceutical Technology students on March 15 and 16, 2020.
4. Anna University Chennai sponsored Two Days Seminar on "Challenging Perspectives in Pharmaceutical Technology" on 21st & 22nd February 2020.
5. Anna University Chennai sponsored one day technical symposium on **"Enhancing the Employability skills and Entrepreneurship qualities for the emerging Pharmaceutical Technocrats"(4EPT)**, BIT Campus, Anna University, Tiruchirappalli, 22nd September 2017.
6. **Technical Education Quality Improvement Programme (TEQIP-II)** sponsored **National Conference on "Innovation and Future Directions in Pharmaceutical Product and Process Development"** BIT Campus, Anna University, Tiruchirappalli, 9th -10th September 2016.
7. **Technical Education Quality Improvement Programme (TEQIP-II)** sponsored **Industrial Workshop on "Challenges and opportunities in Chemical and Pharmaceutical Industries"** BIT Campus, Anna University, Tiruchirappalli, 2nd -3rd September 2016.
8. **Technical Education Quality Improvement Programme (TEQIP-II)** sponsored **Faculty Development programme** on "Current Developments in Life Sciences: An Interdisciplinary Approach" BIT Campus, Anna University, Tiruchirappalli, 19th -25th August 2013.
9. **Local Organizing Committee member** (Medical Services committee) in 64th Indian Pharmaceutical Congress supported by Association of Pharmaceutical Teachers of India, SRM University, Chennai, Dec 7-9, 2012.
10. Department of Biotechnology, New Delhi sponsored **Short term training programme - Hands on training on "Biopharmaceutical approaches on plant based drug discovery"**, Anna University of Technology Tiruchirappalli, Tiruchirappalli, 2nd -16th May 2012.
11. **One day workshop on "Trouble shooting in HPLC Techniques"** Anna University of Technology Tiruchirappalli, Tiruchirappalli, 10 Sep 2011.
12. **Two days National Level Technical Symposium** on **"Exploring the Research Platform for Pharmaceutical Product and Process Development"** Anna University, Tiruchirappalli, 15-16 March, 2008.
13. **Two days state Level workshop** on **"Spectral analysis"** Anna University, Tiruchirappalli, 26-27 Jan, 2008.

14. **Two days state Level workshop** on "**Biostatistics and Pharmacokinetics**" Anna University, Tiruchirappalli, 22-23 Jan, 2008.
15. **Research Initiative Programme** on "**Drug Discovery and Development**", Anna University, Tiruchirappalli, 26-29 Dec, 2007.
16. **Research Initiative Programme** on "**Phytomedicines and Bioactivity studies**", Anna University, Tiruchirappalli, 17-20 Nov, 2007.
17. **A National Level Workshop** on "**Method Development in HPLC Techniques**", Anna University, Tiruchirappalli , 18th & 19th May 2007.
18. **A National Level Workshop** on "**Recent Advances in HPLC Techniques**" , Anna University, Tiruchirappalli , 29th & 30th March 2007.
19. **A National Level seminar** on "**Contract Research and Patent Rights**", Bharathidasan University, Tiruchirappalli 24th Feb 2006

Conferences and Seminars Attended

1. A Three Days National seminar on "Science & Technology for National development" organized by Indian Science Congress Association (ISCA) at Manipur University, Imphal 3rd April 2017.
2. A four Days International Conference on Contemporary Antimicrobial Research 2016, Assam University, Silchar, India, 14-17 Nov 2016
3. Workshop on advance in Rheology, BIT campus, Anna University, Tiruchirappalli, 8th Aug 2016
4. 5th Annual International Convention of Association Of Pharmacy Professionals, BIT Campus, Tiruchirappalli, Anna University, 22nd and 23rd Jan 2016
5. **7th International Symposium** on Current Trends in Pharmaceutical Sciences "**Advances in New Drug Discovery & Development**" **Ramanbhai foundation** and is held at Zydus Research center, **Ahmedabad**, between **2nd to 4th Feb 2015**.
6. 66th Indian Pharmaceutical Congress on India Pharmacy of the World "**Role of Indian Regulators of Pharma Industry**" Indian Pharmaceutical Congress Association and is held at Hitex, **Hyderabad**, scheduled between **23rd to 25th Jan 2015**.
7. Elsevier Research Solutions in association with Anna University University Library, Author workshop on Book/Journal Publishing, at Anna University CEG Campus, Chennai, Sep 24 2014
8. Tamil Nadu Drugs Control Enforcement Officers Association, First state conference, Tiruchirappalli, 16th Aug 2014.
9. Metabolomics - A New Frontier in Natural Products Research" Department of Biotechnology & Bioinformatics, North East Hill University, Shillong, 23-24 May 2014.
10. TEQIP II sponsored and ISTE organised workshop, "Accreditation and autonomy" Hotel Sinkar, Kanyakumari, 6to 8th Jan 2014
11. 34th Annual conference of Indian association of biomedical scientists (IABMS), "Role of Natural Resources in Health Care", IBMS, Tharamani Campus, Chennai, Dec 27 to 29, 2013
12. 65th Indian Pharmaceutical Congress Supported by Indian Pharmaceutical Graduates Association, "Pharma vision 2020-Empowering Pharmacist" held at AMITY University, New Delhi 20-22, Dec 2013
13. Workshop on Building Innovation Culture Organised by Tamil Nadu Technolgy Development and Promotion Centre of CII AND CTDT of Anna University, Anna University Chennai, 14th Feb 2013.
14. Symposium on "Recent Trends in Bioinformatics and Molecular Modelling" , Department of Biophysics, University of Madras, July 30th – August 1st, 2010.
15. IPA Convention - Surging pharma as the global Pharma destination, Sri Ramachandra Medical University, Chennai 15 and 16 March 2010.
16. **UGC** sponsored one day workshop on "Synthon Approach: The Theory and Practice" at Annamalai University, Chidambaram, 20 Feb 2010.
17. **World Health Organisation (WHO)** organised National workshop on "Cosmetics standard, Regulation and Control: A growing need", Annamalai University, Chidambaram, 16th Nov, 2007.
18. "Recent Trends in Ultra Fast Liquid Chromatography and Mass Spectrometry", Chennai, 29 Sep 2006.
19. "Global Trends in Pharma – opportunities & Challenges", 23rd Annual Conference Indian Pharmaceutical Graduates Association, Chennai, 4th5th Nov 2006.
20. "Recent Trends in Medicinal Chemistry", Department of Pharmaceutical Chemistry, Periyar College of Pharmaceutical Sciences for Girls, Trichirappalli , 27 Feb -2004.
21. "International Siddha Congress 2002", Gandeepam Medicinal Plants Conservation Park & Siddha Hospital, Kilavayal, Sivagangai. 24th-26th, May, 2003.
22. "Recent Trends in Medicinal Plants-Prospects & Challenges", Periyar College of Pharmaceutical Sciences for Girls, Tiruchirappalli, 21st -22nd, Dec-2002.

23. "Patent Awareness Workshop" sponsored by Department of Science and Technology (DST), Government of India, Annamalai University, Annamalai Nagar, 24th April, 2000.
24. "The Second Annual National Convention of APTI", Bangalore, 1-2nd March 1997.
25. "32nd National Pharmacy Week Celebration" Tamilnadu State Pharmacy Council, Coimbatore, 27th Nov 1993.
26. "29th National Pharmacy Week Celebration", Tamilnadu State Pharmacy Council, Tiruchirappalli, 24th Nov 1990.

Training Programmes attended

1. Online workshop on Universal Human Value on the theme "Inculcating Universal Human Values in Technical Education" during 18-22, July 2020 as organized by All India Council for Technical Education (AICTE).
2. Online Indian National Science Academy (INSA) Visiting Fellowship 2019-20 at CSIR-North East Institute of Science and Technology, Jorhat, Assam between 16.08.19 to 16.10.19
3. An eight week National Programme on Technology enabled learning (NPTEL) online certification programme on Computer aided Drug Design conducted by IIT, Madras. This course is approved for FDP by AICTE. Sep 2018
4. AICTE Sponsored one week Quality Improvement Programme on "Challenges and strategies for drug design and formulation development" at Manipal College of Pharmaceutical Sciences, Manipal, between 20 - 25th November, 2017
5. One day orientation Programme for NSS Programme officers and students volunteer secretaries conducted by National service scheme, Anna University, Regional office, Tiruchirappalli-620 024 16th Sep 2017.
6. "Orientation programme for NSS Programme officers organized by Empaneled Training Institute (ETI)-RGNIYD, Ministry of youth affairs Govt of India, at Rajiv Gandhi National Institute of Youth Development (RGNIYD), Sriperumpudur, Tamilnadu. 19th to 25th Sep 2016
7. TEQIP-II sponsored course on "Foundation skills in integrated product development" programme organised by Anna University Chennai and NASSCOM, at Bharathidasan Institute of Technology, Tiruchirappalli between 19 - 23 Jan, 2016.
8. TEQIP-II sponsored "*Management capacity enhancement programme on achieving academic excellence*" organised by National Project Implementation Unit (NPIU), Uttar Pradesh and IIM, Raipur, at Viceroy Hall of Hotel VW Canyon, Raipur between 12 October - 17 October, 2015.
9. Department of Science and Technology, New Delhi, IUSSTF Jointly organised "*International Training Program on Leadership and Career Development for Women Scientist & Technologists*" at Indian Institute of Science Education and Research (IISER), Pune, between 28th August - 1 September 2015
10. AICTE sponsored Quality Improvement Programme on "*Recent development in Pharmaceutical Chemistry*" at Delhi Institute of Pharmaceutical Sciences (DIPSAR) New Delhi, 9th to 20th March 2015.
11. Institute for Studies in Industrial Development (ISID) in collaboration with Public Health Foundation of India (PHFI) organised a five days Workshop-cum-Conference on "*Pharmaceutical Policies in India: Balancing Industrial and Public Health Interests*" at ISID Campus, Vasant Kunj, New Delhi- 110070, India during March 03-07, 2014. (Sponsored by Indian Council of Social Science Research (ICSSR))
12. UGC sponsored refresher course, Department of Pharmacy, Annamalai University, Chidambaram 28th Nov 2001 to 18th Dec 2001.
13. **Internal Auditor Course (ISO 9000:2000), Germanischer Lloyd** Industrial Services India Private Limited, Periyar Centenary Girl's Polytechnic, Vallam 23rd-25th, May, 2001.
14. AICTE sponsored Quality Improvement Programme, JSS College of Pharmacy, Ooty 27th Feb 2000 to 7th March 2000.
15. Orientation training programme to youth red cross, Tamil University, Thanjavur & Bharathidasan University Trichy 6th to 8th Dec 1993.

Papers Presented (International)

1. "Synthesis and validation of RP-HPLC method for the indole hydroxyhexanamide as potential histone deacetylase inhibitor "UKPharmSci2010 - The Science of Medicines, East Midland Conference Centre, **University Park, Nottingham** NG72RJ, UK, 1st -3rd September 2010.

2. "Gene to Vial concept for Biotechnology based Healthcare Molecules" International symposium, Centre for Biomolecule Separation Technology, **Vellore Institute of Technology**, Vellore 7 to 10 Feb 2010.
3. "Wound Healing Potential of *Psammalypsisilla purpurea*: A Pharmacological and Biochemical Evaluation" in an International Herbal Conference - 2009 on "Herbal Medicine- Evaluation of Quality, Efficacy and Safety", by Association of Pharmaceutical Teachers of India in association with Rajiv Gandhi University of Health Sciences, Karnataka supported by School of Natural Product Studies, **Jadavpur University, Kolkata on 26, 27 & 28 February 2009.**
4. GEA-NUS "Enhancement of micromeritic properties of rifampicin by simple spherical crystallization technique" was the paper presented in the International Pharmaceutical Technology Conference in **National University of Singapore, Singapore** (17 - 19 Dec 2007).
5. "New Frontiers in Marine Natural Product Research" (NFMNPR), a paper was presented on "Antibacterial efficiency of seaweed extracts of *Psammalypsisilla purpurea* " **National Institute of Oceanography, Goa**, 23rd & 25th Feb 2007.

Paper Presented (National)

1. "Continuing Education in Pharmacy - For Medical representatives", 46th Indian Pharmaceutical Congress, Tirvandrum , 25th -27th, Dec, 1994.
2. "Estimatio
3. n of Lansoprazole and its dosage form by spectrophotometric method", Annamalai University, Annamalai nagar, . 7th, March, 1996.
4. "Estimation of Lansoprazole and its dosage form by HPLC method", Chennai, 22nd- 24th, Dec, 1996.
5. "4-Dimethylaminopyridinium salts - A study on local anaesthetic activity" National seminar on Social Relevance of Some Advanced Chemical Research in the Independent India, Bharathidasan University, Tiruchirappalli, 16th-17th, March-1998.
6. 52nd Indian Pharmaceutical Congress, Hyderabad 1st to 3rd Dec, 2000
 - "Synthesis and Pharmacological Evaluation of some Benzimidazole derivatives".
 - "Effect of *Azima tetraantha* on Dermal Wound Healing in Rat"
 - "Synthesis of Novel Benzimidazole Derivatives and their Antimicrobial Activities".
7. 5th annual Convention of ISTE, 12th, Oct, 2002.
 - "Interactive teaching techniques and Evaluation"
 - "Modern Trends in Technical Advancement of Technical Educators"
8. "Phytochemical Analysis and Antimicrobial Activity of *Colednia procumbens*" 55th Indian Pharmaceutical Congress, 19th -21st, Dec, 2003, Chennai.
9. "Estimation of Oxybutynin Hydrochloride by Reverse Phase HPLC" 56th Indian Pharmaceutical Congress, 3rd-5th, Dec, 2004, Kolkata.
10. National seminar on recent trends in isolation, Characterisation, Synthesis and Biological Studies of Organic Compounds, 5th-6th, March, 2004, Gandhigram University, Gandhigram.
 - "Synthesis and Biological Screening of some New 2-substituted-4,5-diphenylimidazoles derivatives"
 - "Analgesic and Antiinflammatory Activity of *Heliotropium zeylanicum*".
11. "Synthesis and Pharmacological Evaluation of some potent 2-(4-substitutedphenyl)-4,5-diphenyl-1H-imidazoles" second regional CRSI symposium in chemistry, January 7-8, 2005 School of Chemistry, Bharathidasan University, Tiruchirappalli.
12. Antibacterial efficiency of seaweed extracts of *Sargassum wightii*-J.John, A.Jayaprakash, R.Ram kumar, S.P.Anbarasan and A.Puratchikody-National symposium on algae, Man and Biosphere-A.V.V.M. Sri Puspham College-24th 25th April 2005.
13. "One pot synthesis of N-substituted-4,5-diphenylimidazoles" 57th Indian Pharmaceutical Congress Hyderabad 2nd to 4th, Dec, 2005.
14. Wound Healing activity of *Memecylon umbellatum burm* -G.Nagalakshmi, L.Baskar and A.Puratchikody- KLE Drug discovery and research process-Society's College of Pharmacy, Belgaum on 26-29-June 2005.
15. "Synthesis , Analgesic , Antiinflammatory, Antiepileptic and Locomotor activities of certain new 2-substituted- 4,5-diphenyl-1H- imidazoles", 58th Indian Pharmaceutical Congress, Mumbai, 1st to 3rd, Dec, 2006.
16. "Invitro evaluation of Plant Extracts and their shampoo formulations against Bacteria, Yeast, Fungi and the isolates from the volunteers with dandruff," BIOSPARK 2007, state level

- seminar in Pavendar Bharathidasan College of Arts and science on 29th Feb 2007.- **Best Paper Award received.**
17. Wound Healing activity of seed extract of *Annona reticulata* BIOSPARK 2007, state level seminar in Pavendar Bharathidasan College of Arts and science on 29th Feb 2007 - **Best Paper Award received.**
 18. "Formulation and In-Vitro Evaluation of Microspheres Using Anti-Retroviral Drug Indinavir Sulfate" 61st Indian Pharmaceutical Congress 11th to 13th, Dec, 2009, Ahmedabad.
 19. "Pharmacological Screening of some new Aminopyridinium derivatives", National Symposium on Standardisation of Crude Drugs in Department of Pharmaceutical Chemistry, Manonmanium Sundaranar University, Tirunelveli, on 23 Dec 2009.
 20. "Design, Synthesis and characterisation of indole amide hydroxy hexanamide derivatives as potential HDAC inhibitors", National seminar on New frontiers in chemistry, Department of Chemistry, Annamalai University, Chidambaram, on 15 and 16 March 2010.
 21. "Formulation and In Vitro Evaluation of Simvastatin Microspheres using Ethyl Cellulose as the Release Retarding Polymer" Second Indian Youth Science Congress, SRM University, Chennai, June 26-28, 2010.
 22. 98th Indian Science Congress 2011, SRM University, Chennai, Jan 3-7, 2011.
 - Synthesis and *In Vitro* Antitubercular Activity of Some New Quinoxaline Derivatives
 - Evaluation of the Coumarin Hydroxamates as Better HDAC Inhibitor Class Through Descriptor Analysis and Binding Energy Calculations
 - Synthesis and Leptospirocidal activity of some Piperazinyl Mannich bases of N-substituted Quinoxalines.

Membership in Professional Societies

1. The Association of Pharmaceutical Teachers of India - TN/LM.138.
2. The Indian Society for Technical Education - LM - 34378.
3. Indian Pharmaceutical Association - TN / MDS / LM / 0191.
4. Indian Pharmacist Association -LM/081.
5. Indian Science Congress -L15811
6. Registered Pharmacist - 1896\A1.
7. Indian Association of Biomedical scientists - LM. No.924/2011.
8. Society of Pharmaceutical Education and Research -SPER/LM/TN/019