

Curriculum Vitae

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ACADEMIC QUALIFICATIONS

- **Ph.D.** (2015) – Faculty of Technology (Pharmaceutical Technology), Anna University, Chennai.
- **Master of Pharmacy** - Pharmaceutics (2007). SRM College of Pharmacy. SRM UNIVERSITY, Chennai. Tamilnadu.
- **Bachelor of Pharmacy** (2004). SRM College of Pharmacy, The Tamilnadu Dr. MGR Medical University, Chennai. Tamilnadu.

EXPERIENCE

- **Lecturer (TRA – Teaching Research Associate)** – 2 Years & 2 Months (18.06.2007 – 18.08.2009) Dept. of Pharmaceutical Technology, Anna University of Technology Tiruchirappalli, Tiruchirappalli – 620024.
- **Assistant Professor** – (19.08.2009 – Till Date)
Dept. of Pharmaceutical Technology, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli – 620024.

SPONSORED PROJECTS

- COPI: “Stabilization of Plague (a potential Bio weapon) Vaccine using Biocompatible Polysaccharide” sanctioned by DRDO 2017-2020. Rs.44.49 lakh.
- COPI: “Development of Nano based Smart Pesticide Formulations for high Agricultural Productivity” sanctioned by DST, GoI. 2019-2021 Rs.55.74 lakh
- COPI: “Synthesis, Characterization, Functional and Toxicological Evaluation of Triblock grafted Copolymer for the Delivery of Poorly Soluble Drugs” Sanctioned by DST-TDT 2019-2022, Rs. 73.04 lakh.

LIST OF PUBLICATIONS

- Chandrashekar Thalluri, mallikarjun vasam, Rajkumar Jampala, Shanmugarathinam Alagarsamy, Anubhav Dubey, Amit Lather and TANUJ HOODA (2024) "Formulation, Development, and Optimization of Fast Dissolving Tablets Containing Tapentadol Hydrochloride". Pharmaceutical Nanotechnology. Online first December 2024.
<https://doi.org/10.2174/0122117385350217241122151638>
- Periyasamy Visvanathan, Dharmalingam Kirubakaran, Manikam Rajkumar, Alagarsamy Shanmugarathinam, Magudeeswaran Sivanandam. (2024) "Unrevealing Biosynthesis of Zinc Oxide Nanoparticles Using Laggera alata Leaf Extract: Evaluation of Antioxidant,

Anticholinergic, and Anti-Diabetic Properties". *Biomedical Materials & Devices*. <https://doi.org/10.1007/s44174-024-00251-8>

- Mariya Gover Antoniraj, Henry Linda Jeeva Kumari, A. Shanmugarathinam, Ruckmani Kandasamy. (2024). pH-responsive chitosan copolymer synthesized via click chemistry for design of polymeric nanoparticles for targeted drug delivery. *Carbohydrate Research* 542 (2024) 109200. <https://doi.org/10.1016/j.carres.2024.109200>. 02.07.2024.
- Dharmalingam Kirubakaran, Kuppusamy Selvam, Meiyapparayan Dhaneeshram, Muthugounder Subramanian Shivakumar, Manickam Rajkumar, Alagarsamy Shanmugarathinam. (2024) "Biogenic synthesis of copper nanoparticle using *Impatiens chinensis* L: insights into antimicrobial, antioxidant and anticancer activity", *Journal of Molecular Structure*, Vol 1317(2024) 138991. DOI: <https://doi.org/10.1016/j.molstruc.2024.138991> Avl Online 25.06.2024.
- Shanmugarathinam Alagarsamy, Subhasini Kandasamy, Ruckmani Kandasamy, Nandhamurugan Ramachandran, Gopikrishnan Muthurasu, Mukesh Kumar Venkatesan. (2024) "Polymeric Nanoparticles for Oral Delivery of Biopharmaceuticals: An Overview". *Journal of Innovations in Applied Pharmaceutical Science [JIAPS]*. 9(1):1-8. ISSN: 2455-5177. <https://doi.org/10.37022/jiaps.v9i1.565>
- Shanmugarathinam Alagarsamy, Subhasini Kandasamy, Ruckmani Kandasamy, Gunapal Gopal, Kavin Muthukumar. (2024) "Insights of Proniosomes in Transdermal Drug Delivery A Potential Drug Carrier". *International Journal of Creative Research Thoughts (IJCRT)*. 12(2):f940-f947. ISSN: 2320-2882. DOI: <http://doi.org/10.1729/Journal.38091>
- Shanmugarathinam Alagarsamy, Jayasurya Kathirvelu (2023). "Alternatives and Optimal Modifications to Animal Testing in Scientific Discovery". *Indian Journal of Natural Sciences*. 14(81):64453-64461. ISSN: 0976 – 0997.
- Shanmugarathinam Alagarsamy, Aashish A Gadgil, Nalini Ramachandran. U, A. Jansy Isabella Rani, Summera Rafiq, SK. Jasmine Shahina (2023). "Comprehensive Research on Biodegradable Films and Composite Coating". *China Petroleum Processing and Petrochemical Technology* 23(2):1579-1588. ISSN: 1008-6234.
- Shanmugarathinam Alagarsamy, M.I. Niyas Ahamed, Prakash Gadipelli, M.Elakia, N Bhuvana, Mr Jige Sandipan Babasahe. (2023) "Comprehensive Research on Clinical Applications of Green Synthesized Gold Nanoparticles". *Journal of Clinical Otorhinolaryngology, Head, and Neck Surgery*, 27(2): 505-511. ISSN : 1001-1781.
- Krubha Athirathinam, Selvasudha Nandakumar, Shanmugarathinam Alagarsamy, Ruckmani Kandasamy. (2023) "Co-delivery of Vi polysaccharide in enhancing stability and immunity of LcrV protein—a potential vaccine candidate of *Yersinia pestis* against plague". *Macromolecular Research*. 31:961-969. Published 13.July.2023. <https://doi.org/10.1007/s13233-023-00181-2>
- Shanmugarathinam Alagarsamy, Shri Devi. S.D.K, Srinivasan P, Prakash Gadipelli, M.Anchana, Sheela Thangaraj. (2023) "Studies of Ayurvedic Polyherbal Formulations and its Spectral Characteristics". *European Chemical Bulletin*. 12(4): 19549-19556. DOI: 10.48047/ecb/2023.12.si4.1737 (ISSN 2063-5346)
- G.Srinivas, Inbavalli. K, Vinoth Kumar.V, M.I. Niyas Ahamed , P. Praveena, Shanmugarathinam Alagarsamy "Studies On Copper Nanoparticles And Its Physical, Chemical And Biological Applications", *Journal of Clinical Otorhinolaryngology, Head, and Neck Surgery* 2023; 27(1):5871-5887
- Mallikarjun Vasam, Balaji Maddiboyina, Chandrashekar Talluri, Shanmugarathinam Alagarsamy, Bhaskar Gugulothu, Harekrishna Roy (2023). Formulation, Characterization, and Taguchi Design Study of Eplerenone Lipid-Based Solid Dispersions Integrated with

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- J.Kabiriyel, R.Jeyanthi, K.Jayakumar, Augustine Amalraj, P.Arjun, A.Shanmugarathinam, G.Vignesh, C. Raja Mohan.(2023). "Green synthesis of carboxy methyl chitosan based curcumin nanoparticles and its biological activity: Influence of size and conductivity". *Carbohydrate Polymer Technologies and Applications*, 5:100260:1-7. <https://doi.org/10.1016/j.carpta.2022.100260>
- R.Saravanan, R.Srinivasan, A.Shanmugarathinam, R.Karthikeyan, E.Karthikeyan, M. Vasanth Kumar, N. Kishore Raghu, K. Vijay Aadhi Raj, B.Vasu raja and K.Saifullaha (2022). "Chronic Wasting Disease and Their Potential Transmission to Cervids: an Overview". *Indian Journal of Natural Sciences*. 13(75):49591-4959
- Sneha N, Shanmugarathinam A, Arunagiri A, Charulatha K. (2022). "Brief overview on pharmaceutical coating". *UPI Journal of Pharmaceutical Medical, and Health Sciences*, 5(4):63-67. <https://doi.org/10.37022/jpmhs.v5i4.82>
- K. Sheela, C. Ramathilagam, R. Soruba, T. Selvamohan, Shanmugarathinam Alagarsamy, M. I. Niyas Ahamed (2022). "Assessment of Green Synthesized Cerium Oxide Nanoparticles from Peel Extract", *Specialusis Ugdyms*, 2(43):2834 - 2841. ISSN Online: 1392-5369
- Shri Devi, S. D. K., Ashokkumar, N., Bhagyalakshmi, K., Alagarsamy, S., Vinayaka, K. S., & Sathish, S. (2022). Multifunctional management of gold nanoparticles for improved applications. *International Journal of Health Sciences*, 6(S5), 4130–4145. <https://doi.org/10.53730/ijhs.v6nS5.9528>
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- Nirmal Aravindaraj, Jeseeta Suresh, Venkateshwaran Krishnaswami, Shanmugarathinam Alagarsamy & Ruckmani Kandasamy (2022) Guar gum based oral films for hypertensive urgencies, *Natural Product Research*. 36(24):6470-6473. DOI: 10.1080/14786419.2022.2039919
- Sreenivasulu, A., Selvam, J. D., Sajith, S., Vasumathy, M., Barwant, M. M., Alagarsamy, S., & Ahamed, N. M. I. (2022). A comprehensive revision on the nanocarrier drug delivery systems with special reference to artificial intelligence. *International Journal of Health Sciences*, 6(S3), 7163–7193. <https://doi.org/10.53730/ijhs.v6nS3.7734>
- Chackaravarthi Gnanasekaran, Ahmed S.Alobaidi, Ramachandran Govindan, Chenthis kanisha Chelliah, Siddiqi Muhammad Zubair, Shanmugarathinam Alagarsamy, Naiyf S.Alharbi, Shine Kadaikunnan, Rajivgandhi Govindan, Natesan Manoharana. Piperacillin/tazobactam and cefotaxime decrease the effect of beta lactamase production in multi-drug resistant K. pneumoniae. *Journal of Infection and Public Health*. 2021: 14(12):1777-1782. <https://doi.org/10.1016/j.jiph.2021.10.017>
- Balaji Maddiboyina, Prasanna Kumar Desu, Mallikarjun Vasam, Veerendra Teja Challa, Amareswarapu V Surendra, Raja Sridhar Rao, Shanmugarathinam Alagarsamy, Vikas Jhawat. An insight of nanogels as novel drug delivery system with potential hybrid nanogel applications. *Journal of Biomaterials Science, Polymer Edition*. 33(2):262-278 2022. 2021 Oct 10:1-17. doi: 10.1080/09205063.2021.1982643. Epub ahead of print.
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- V. Ragul, J. Madhusudhanan, S. Akshay, A. Shanmugarathinam, N. Kamalashri, M. I. Niyas Ahamed. (2021). Design, Synthesis and Characterization of Wood Based Nanomaterials for Environmental Application. Design Engineering, 2021 (05):1320 - 1328. Retrieved from <https://thedesigengineering.com/index.php/DE/article/view/1826>
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- Karthika Perampattu Baskaran, Arunagiri Arumugam, Ruckmani Kandasamy, Shanmugarathinam Alagarsamy (2020). "Insilico Method for Prediction of Maximum Binding Affinity and Ligand – Protein Interaction Studies on Alzheimer's Disease", International Journal of Research -GRANTHAALAYAH, 8(11), 362 – 370. DOI: <https://doi.org/10.29121/granthaalayah.v8.i11.2020.2472>
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- Shanmugarathinam Alagarsamy, Saravanan Ravindran, Mallikarjun Vasam, (2019).Review on Fast Dissolving Tablets Technology and Superdisintegrants.Journal of Innovations in Applied Pharmaceutical Science (JIAPS) 4(3):7-15.
- ShanmugarathinamA, Venkateshwaran K, Ruckmani K, RajaguruP, Subramanian N.(2018), "Biological macromolecules for ophthalmic drug delivery to treat ocular diseases", International Journal of Biological Macromolecules, 110, 7-16. <https://doi.org/10.1016/j.ijbiomac.2018.01.120>
- M.GoverAntoniraj, S.AngelinTisha, Ayyavu Mahesh, A.Shanmugarathinam, RuckmaniKandasamy (2017)"Synthesis and characterization of cystamine conjugated chitosan-SS-mPEG based 5-Fluorouracil loaded polymeric nanoparticles for redox responsive drug release". European Journal of Pharmaceutical Sciences, 116(34-47).
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- Alagarsamy, S., Ravindran, S., & Vasam, M. (2017). Mucoadhesive buccal tablets of rabeprazole sodium formulation and in-vitro evaluation. International Journal of Indigenous Herbs and Drugs. 2(6):24-29.
- ShanmugarathinamA,Bhuvaneswari N.L, Krithiga S, Hema.R, Sruthi S, Lakshmanaprabu S (2016), "Formulation and Evaluation of Candesartan CilexetilMicroemulsion", International Journal of Research in Pharmacology & Pharmacotherapeutics, Oct - Dec, 142-145.
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- ShanmugarathinamA,S.LakshmanaPrabu, P.Mohananarayanan, V.Kohila, M.Kavichezhian (2016), "Formulation and evaluation of sustained release matrix tablet of diclofenac sodium using hydrophilic natural gum as release modifying agent", International Journal of Research in Pharmacology & Pharmacotherapeutics, Oct - Dec, 65-71.
- Shanmugarathinam A, S. LakshmanaPrabu, R. Thirumurugan, P.Mahesh Vijay (2016), "Applications of computer in Health Profession: From Drug Discovery to Market", International Journal of Research in Pharmacology & Pharmacotherapeutics, Oct - Dec, 46-54.
- Shanmugarathinam A, Gajalakshmi CE (2016), "Design and Characterization of Floating Microspheres for Oral Delivery of Cefixime", International Research Journal Of Pharmacy, 7(11), 74-79.
- Shanmugarathinam A, Puratchikody A, Hari PG, Faritha Begam N, Sridhar G (2015),"Formulation and development of sustained release metformin hydrochloride tablet", The Pharma Innovation Journal, 4(2),30-32.

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- Shanmugarathinam A, and Puratchikody A (2011) "Formulation and In vitro Evaluation of Simvastatin Microspheres Using Ethyl Cellulose as the Release Retarding Polymer" Research Journal of Pharmacy and Technology 4(8), pp 1278 – 1280.
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BOOK CHAPTER

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- R. Selva kumar, C. Thillaiyadi valliammai, Anthathi sreenivasulu, Shanmugarathinam Alagarsamy (2024). "Handbook of Pharmaceutical Chemistry" Authors ISBN: 978-93-48325-31-0, First Edition 2024, SALIHA PUBLICATIONS, Vaniyambadi, Tirupattur District, Tamil Nadu, India
- Gurumeet C Wadhawa, Sabari V, Prafeena P, Astalakshmi M, Shanmugarathinam A (2021). "Microscopy" in Textbook of Basics of Biophysics". (p196-213) ISBN:9789391387280. AGAR Publications, Tamilnadu, India.
- Shanmugarathinam A, Sridevi Jagavati, Pavithra M, Dinesh S. Kharate, S. Srinivasan, Niti Chawla, Mohit Tiwari, Tripti Tiwari. Editor. "Recent Trends in Applied Sciences and Computing Engineering" (2021). ISBN 9788195023639. Association of Global Academician and Researchers (AGAR) Publications, Tamilnadu, India.
- Chelliah Ramachandran, Eric Banan-Mwine Daliri, Elahi Fazle, Khan Imran, Wei Shuai, Yeon Su-Jung, Saravanakumar Kandasamy, Inamul Hasan Madar, Sumaira Miskeen, Ghazala Sultan, Marie Arockianathan, Shanmugarathinam Alagarsamy, Thirumalai Vasam, Myeong-Hyeon Wang, Antony Usha, Devarajan Thangadurai, Oh Deog Hwan (2021). Impact of Sequencing and Bioinformatics Tools in Food Microbiology in Sequencing Technologies in Microbial Food Safety and Quality (1st ed.). ISBN: 9780367351182 CRC Press, Taylor & Francis. p217-276.
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CONFERENCES / WORKSHOPS / FDP – ORGANISED

- Conference on "Exploring the Research Platform for Pharmaceutical Product and Process Development" 15 & 16th March 2008, Dept. of Pharmaceutical Technology, Anna University of Technology Tiruchirappalli.
- Seminar on "Research Methodology", 27.08.2011, Centre for Research, Anna University of Technology Tiruchirappalli.
- Workshop on HPLC "Trouble shooting in HPLC techniques", 10.09.2011, Anna University of Technology Tiruchirappalli, Tiruchirappalli.
- FDP on "Current Developments in Life Sciences: An Interdisciplinary Approach", 19.08.2013 – 25.08.2013, BIT Campus – Trichy, Anna University.
- Seminar on "Recent Trends in Novel Drug Delivery Systems", 07.11.2013 & 08.11.2013, BIT Campus – Trichy, Anna University.
- Workshop on "Principles and Applications of Advanced Analytical Instruments", 01.03.2016 & 02.03.2016, BIT Campus – Trichy, Anna University.
- FDP on "Advances in Nanotechnology and Analytical Instrumentation in Health Sciences", 24.06.2016 – 07.07.2016, BIT Campus – Trichy, Anna University.
- Industrial Workshop on "Challenges and opportunities in Chemical and Pharmaceutical Industries" 02.09.2016 & 03.09.2016. Dept of Pharmaceutical Technology, BIT Campus, Anna University.
- Workshop on "Principles and Applications of Advanced Analytical Instruments" 20-24th September 2016, Dept of Pharmaceutical Technology, BIT Campus, Anna University.
- PANACEA'2020 "Imminent Prospects of Pharmaceutical Technocrats in Expanding the Scientific Realm with modern tools" 15.03.2020 & 16.03.2020, Dept of Pharmaceutical Technology, BIT Campus, Anna University.
- PANACEA'2022 "Pharmaceutical Technology: Latest Innovations, Challenges and Prevailing Strategic Prospective" 28.05.2022 & 29.05.2022, Dept of Pharmaceutical Technology, BIT Campus, Anna University
- PANACEA'2023 "Nanotechnology Facilitates Nutraceuticals: Recent insights in Formulation Development" 01.04.2023 & 02.04.2023, Dept of Pharmaceutical Technology, BIT Campus, Anna University.
- PANACEA'2024 "Advancements in Pharmaceutical Technology: Navigating Opportunities and Challenges" 02.04.2024 & 03.04.2024, Dept of Pharmaceutical Technology, BIT Campus, Anna University.
- DISS-FEST'24 "DISS FEST 2024 Research Project Competition" 28.04.2024, Dept of Pharmaceutical Technology, BIT Campus, Anna University.

ORIENTATION / FDP - PARTICIPATION

- "Current Developments in Biological, Nano & Pharmaceutical Technology" April 05 – 18, 2010. Anna University Tiruchirappalli, Tiruchirappalli - 620024.
- "106th Orientation Programme" 18th May to 14th June 2012, University of Madras, Chennai.

- “Multidisciplinary Perspectives for Pharmaceutical, Life Science Educators and Researchers”, December 9-15, 2013. Bharathidasan Institute of Technology, Anna University, Tiruchirappalli – 620024.
- "Frontiers Research in Applied Sciences", June 3-16, 2015, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli – 620024.
- “Foundation Program in ICT for Education (FDP101x)” 03.08.2017 – 07.09.2017, PanditMadan Mohan Malaviya National Mission for Teachers and Teaching (PMMMNTT), MHRD, GoI.
- "Pedagogy for Online and Blended Teaching-Learning Process (FDP201x)”, 04.09.2017 – 12.10.2017, PanditMadan Mohan Malaviya National Mission for Teachers and Teaching (PMMMNTT), MHRD, GoI.
- “Molecules and Materials for Applications in Synthesis and in Devices”, 07.05.2018 to 20.05.2018, SaivaBhanu Kshatriya College, Aruppukottai 626 101
- “Industrial training Programme on Communication and Networking Technologies” 14.07.2020 to 03.08.2020, Rajiv Gandhi Memorial Telecom Training Centre, BSNL, Trichirappalli.
- ATAL AICTE FDP “Nano Furtherance of Pharmaceutical Engineering: An Industrial Perceive”, 21.06.2021 to 25.06.2021, Nirmala College of Pharmacy, Atmakuru, Mangalagiri, Guntur, Andhra Pradesh.
- “Inculcating Universal Human Values in Technical Education”, 31.01.2022 to 04.02.2022, AICTE, New Delhi.
- Online Induction/Orientation Programme for “Faculty in Universities/Colleges/Institutes of Higher Education” 22.03.2023 to 20.04.2023, Teaching Learning Centre, Ramanujan College, University of Delhi.
- Online Faculty Induction Training Programme for Technical Teachers (8 module Course), April to May 2024, NITTT.

MEMBERSHIPS IN PROFESSIONAL BODIES

- Association of Pharmaceutical Teachers of India, Bangalore, Karnataka.
APTI – Life Member (TN/LM - 537)
- Association of Pharmacy Professionals, Bhopal, MadhyaPradesh.
APP – Life Member (APP/TN/LM-006/14)
- Society of Pharmaceutical Education & Research, MadhyaPradesh.
SPER – Life Member (SPER/LM/TN/017 (Since 24.08.2016)
- The Indian Pharmacists Association, Tamilnadu.
Life Member – (TN/CH/IPHA-4042) (Since - 15.07.2016)
- AGAR Life Member - Association of Global Academicians and Researchers (AGAR), Tamilnadu (ELM042020 Since 30.06.2020)
- Life Membership - Society of Clinical Research and Medical Professionals
Telangana, India. (Since 15.08.2024)

Signature

(A.Shanmugarathinam)