

RUCKMANI KANDASAMY

OFFICE ADDRESS AND TELEPHONE

Director, Centre for Excellence in NanoBio Translational Research (Autonomous)

Professor of Pharmaceutical Technology

Project Co-ordinator & Director - EDII-ABIRF (a section 8 company)

DST-BOYSCAST FELLOW

University College of Engineering, Anna University,

Tiruchirappalli - 620024

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Research Overview :

With a pioneering journey in pharmaceutical technology dating back to my undergraduate years, I proudly became **the first lady from Tamil Nadu to earn a Doctorate in Pharmacy in 2000**. Following that, I pursued a DST-BOYSCAST postdoctoral fellowship at the University of South Florida, USA. Over the span of 30 years, my research in pharmaceutical sciences and pharmacology has yielded significant breakthroughs, particularly in drug delivery systems like stimuli-gated nano formulations and herbal gum-based innovations. This research journey has resulted in 216 publications and secured 4 -US and Indian patents. I've also successfully obtained substantial national grants, instrumental in establishing crucial research facilities like NFDD and NFBP at Anna University. Moreover, I played a pivotal role in founding CENTRE and an incubation center aimed at nurturing startups across various fields. Committed to advancing application- oriented research, I eagerly anticipate further collaborative efforts for scalable and socially impactful outcomes.

EXPERTISE:

- ✓ Pharmaceutical, veterinary, cosmetics and agrochemical formulations.
- ✓ Polymers of pharmaceutical interest.
- ✓ Synthesis and characterization of colloidal systems (nanoparticles, micelles...).
- ✓ Toxicology

Education:

- D.Pharmacy -Thanjavur Medical College, Thanjavur
- B. Pharmacy - Madurai Medical College, Madurai (**University First Rank, Madurai Kamaraj University, Madurai, Gold Medalist**)
- M.Pharm - Jadavpur University, Kolkata (**University Fifth Rank**)
- Ph.D. - Jadavpur University, Kolkata – **First women from the state of Tamilnadu to receive PhD in Pharmacy**

EMPLOYMENT:

- Professor of Pharmaceutical Technology, Anna University, Tiruchirappalli, Dec 2019- till date
- Director, Centre for Excellence in NanoBio Translational Research (Autonomous) 2014- till date
- Professor & Head of Pharmaceutical Technology, Anna University, Tiruchirappalli, 2007-2019.
- Officiating Vice Chancellor, Anna University, Tiruchirappalli, 2010.
- Professor & Head of Pharmaceutical Engineering & Technology, Bharathidasan University, Tiruchirappalli, 2005-2007.

- Professor & Principal, Periyar College of Pharmaceutical Sciences (PCPS), Tiruchirappalli, 2001-2005.
- Asst. Professor & Principal i/c, PCPS, Tiruchirappalli, 1999-2001.
- Senior Lecturer, PCPS, Tiruchirappalli, 1998-1999.
- Lecturer, PCPS, Tiruchirappalli, 1994-1998.
- Analytical Chemist, Tablets (India) Ltd, Chennai, 1992.

AWARDS AND HONORS:

1. Recognized as among top 2% most influential scientists as per Stanford list since 2021
2. Elected as a Fellow of the Academy of Sciences, Chennai
3. From the Government of Tamilnadu:
 - i. Tamil Nadu Senior Scientist Award 2018
 - ii. Tamil Nadu Scientist Award 2014
 - iii. Tamil Nadu Young Women Scientist Award 2006
4. From Anna University, Chennai:
 - i. Innovation Award 2023
 - ii. Research Excellence Award 2023 (Gold Category)
 - iii. Research Excellence Award 2021 (Silver Category)
 - iv. Distinguished Researcher Award 2019
 - v. Best Innovation Award 2013
5. Shri P.K. Das Memorial Lifetime Achievement Award 2023 & Shri P.K. Das Memorial Best Faculty Award 2010-2011 by Nehru Group of Institutions, India
6. Vetri Penmani (Women Achiever) Award 2011, Bharathidasan University, Tiruchirappalli
7. Certified Lead Auditor – ISO 9001:2015
8. Certified Lead Auditor – ISO 14001:2015
9. Researcher in Pharmaceutical Sciences 2023 by Association of Pharmaceutical Teachers of India - Tamil Nadu branch
10. Distinguished Scientist Award 2016, Association of Pharmacy Professionals, India 2016
11. Prof.S.P.Thiagarajan and Prof.S.Rajarajan Endowment Award 2009 for the best patent filed in the field of biomedicine.
12. DST-BOYSCAST Fellowship 2007-2008
13. G.P. Nair Award 1992, Indian Drug Manufacturers Association, Mumbai for securing University First Rank in B. Pharmacy
14. Was selected to attend the Management and Leadership programme conducted jointly by CMI in association with Dudley College of London and AICTE, India.
15. Was awarded CMI Level 5 certification in Management and Leadership by the Royal Charter, United Kingdom.
16. Qualified in Graduate Aptitude Test in Engineering, 1992

ACADEMIC POSITIONS:

- Chairman - Institutional Animal Ethical Committee, Anna University Tiruchirappalli (2017-2022).
- Founding Director, Centre for Excellence in Nanobio Translational Research (Autonomous), 2014 onwards
- Member Secretary & Chairman - Institutional Animal Ethical Committee, Anna University Tiruchirappalli (2013-2016).
- Member, Research Advisory Committee, Anna University Tiruchirappalli, 2013-
- Member, Board of Governors, Anna University Tiruchirappalli, 2013-
- Reviewer of research projects of various funding agencies
- Reviewer of many peer reviewed journals

RESEARCH GRANTS:

As Investigator

- Department of Science & Technology (DST), Rs. 55.74259 lakhs, 2020-2022
- Department of Science & Technology (DST), Rs. 92.04 lakhs, 2019-2021.
- Indian Council of Agricultural Research (ICAR), 2017-2020 Rs. 28.84860 lakhs
- Department of Science & Technology, Rs.396.46 lakhs, 2017-2019.
- Defense Research Development Organization, Rs. 44.99 lakhs, 2016-2019.
- Department of Biotechnology, Rs. 26.72 lakhs, 2017-2020.
- Department of Science & Technology, Rs.600.00 lakhs, 2010-2017.
- Department of Biotechnology, Rs. 28.72 lakhs, 2014-2017.
- TEQIP II- Research Seed Grant, Rs.0.5 lakhs, 2016
- Department of Science & Technology, Rs. 32.14 lakhs, 2010-2014.
- All India Council for Technical Education, Rs. 6.0 lakhs, 2004-2005.
- All India Council for Technical Education, 8.5 lakhs, 1999-2001.
- Defense Research Development Organization, Rs. 0.55 lakhs, 1999-2000.
- Mentor for Post-Doc & JRF/SRF for sponsored projects: Rs. 287 lakhs
- FIST- DST, **Project Coordinator**, Rs.165.00 lakhs, 2018-2023.
- Entrepreneurship Development Innovation Institute, Chennai, **Project Coordinator**, (Anna Business Incubation Research Foundation) Rs.249.90 lakhs, 2019-2022.

PROFESSIONAL VISITS ABROAD

- USA - Leadership Development for Academicians program - sponsored by MHRD, Govt. of India Sep 2019.
- UK - Erasmus+ (Staff mobility for training) at University of Edinburgh, Scotland - sponsored by European Union July 2019.
- USA - AAPS, Washington, DC - sponsored by SERB, Govt. of India Nov 2018.
- Malaysia - To conduct PhD Viva voce examination at University of Nottingham, Malaysia - sponsored by University of Nottingham, Malaysia Oct 2018.
- Visiting Scientist, University of South Florida, USA Aug 2008-Nov 2008
- DST-BOYSCAST Fellow, University of South Florida, USA 2007-2008

ACADEMIC PROJECTS:

- Post-docs: 9 completed.
PhDs: 25 completed; Thesis submitted: 03; Ongoing: 03
- MS by research: 1 completed; Thesis submitted: 01
- National/International conferences organized: 28/16

PATENTS GRANTED

1. Immediate release compositions of acid-labile drugs;

Muneera Mohamed Shafee, Ruckmani Kandasamy, Thusleem Omar Abdul Gani, Saleem Zainuddin Shaikh, Anand Vasantharao Kondaguli.

US Patent No: US8, 999,384 B2; Apr 7, 2015.

2. Herbal exfoliating composition comprising *Phaseolus mungo* and *Cyphomandra betaceae*.

Ruckmani Kandasamy and Nilani Packianathan;

Indian Patent No: 292860; Feb 13, 2018.

3. Novel and stable pharmaceutical compositions of vitamin A analog; Thusleem

Omar Abdul Gani, Ruckmani Kandasamy, Muneera Mohamed Shafee, Saleem Zainuddin Shaikh. Indian Patent No: 333223; Feb 27, 2020.

4. Stabilization of nonionic surfactant based nanovesicles loaded with resveratrol using stearic acid and method of preparation thereof ;

B.Surendranath, V.JayaSravani, Ruckmani Kandasamy, M. Gover Antoniraj, A.Heartwin Pushpadass, N.Laxmananaik, F. Magdaline Ejeeva Emerald.

Indian Patent Number: 404471; 25.08.2022

PATENTS APPLIED

1. Immediate release compositions of acid-labile drugs; Muneera Mohamed Shafee, Ruckmani Kandasamy, Thusleem Omar Abdul Gani, Saleem Zainuddin Shaikh, Anand Vasantharao Kondaguli. PCT Application No: PCT/IB2011/000017; January 7, 2011.

2. A process of preparation of bio-waste-based nanocomposite film and product thereof N.Selvasudha, **K.Ruckmani** and J.Pushpasweety Indian Patent Application Number: 202141018337; 21/04/2021; (Published 28.10.2022)

3. An Aqueous Stable Leuprolide Composition; Krubha Athirathinam, Ruckmani Kandasamy, Shanmugarathinam Alagarsamy, Selvasudha Nandakumar
Indian Provisional Patent Application Number: 202241046931; August 18, 2022.

4. A Process of preparation of antibacterial activity and osteogenesis potential exhibiting IGF-1 loaded anionic PLGA nanoparticles.; Fathima Banu Raza, Anand Kumar Vaidyanathan, Sivakumar Vijayaraghavalu, Venkateshwaran Krishnaswami and Ruckmani Kandasamy . Indian Provisional Patent Application Number: 202341046964; July 12, 2023.

5. A Process of preparation of antibacterial activity and osteogenesis potential exhibiting IGF-1 loaded neutral PLGA nanoparticles.;
Fathima Banu Raza, Anand Kumar Vaidyanathan, Sivakumar Vijayaraghavalu, Venkateshwaran Krishnaswami and Ruckmani Kandasamy
Indian Provisional Patent Application Number: 202341046965; July 12, 2023.

BOOK CHAPTERS

1. Perisamy Vijayalakshmi, Manivel Gowdham, Kandasamy Ruckmani, Umapathy Vidhya Rekha, Alex Asha Monica and Tharmaraj Vairaperumal. Natural Products for combating antimicrobial drug resistance. In Emerging Strategies. Editors Ajmer Singh Graval, Ashwani K. Dhingra, Kunal Nepali et al. ISBN: 979-8-89530-060-2. Nova Scientific Publishers Inc. 2024
2. Ramapriya Alagarsamy Rajagopal, Venkateshwaran Krishnaswami, Vijayalakshmi Maruthamuthu and Ruckmani Kandasamy. Functionalized carbon nanomaterials for biomedical imaging for diagnostics. Functionalized carbon nanomaterials for Theranostics applications, Micro and Nano Technologies, Shadpour and Chaudhery (Editors), Elsevier, 2023, Pages 353-380
3. Anitha Manikandan D, Venkateshwaran Krishnaswami and Ruckmani Kandasamy. Chitosan and Chitosan derivatives-based drug delivery systems for the treatment of pulmonary diseases. Biopolymer Science and Technology (2022), Frank Weinreich (Editor), accepted.
4. Selvakumar Muruganantham, Venkateshwaran Krishnaswami, Anitha Manikandan D, Nirmal Aravindaraj, Jeseeta Suresh, Mohanraj Murugesan and Ruckmani Kandasamy. (2022) Gums as Pharmaceutical excipients- an overview. Elsevier Publications Online ISBN 978-3-030-76523-1. https://doi.org/10.1007/978-3-030-76523-1_7-1. 16 February 2022
5. Sreeranjini Sukumaran Rajamma, Venkateshwaran Krishnaswami and Ruckmani Kandasamy. (2021) Functional Role of Prebiotics Supplement in Brain Signaling. In: Microbiome gut brain axis- Implications on Health, R. Z. Sayyed, M. Khan (eds.), https://doi.org/10.1007/978-981-16-1626-6_9. Springer, Singapore, pp 215-236. Online ISBN 978-981-16-1626-6. January 1, 2022
6. Selvasudha, N., Sweetey, J.P., Dhanalekshmi, U.M., Ruckmani, K. (2022). Chitosan-Based Nanocomposite as Targeted Drug Delivery Carrier. In: Jana, S., Jana, S. (eds)

7. [Nirmal Aravindaraj](#), [Jeseeta Suresh](#), [Venkateshwaran Krishnaswami](#), [Ruckmani Kandasamy](#) (2022) Guar Gum-Based Novel Nanodrug Delivery Systems in: Nanoengineering of Biomaterials: Biomedical Applications, II. [Sougata Jana](#), [Subrata Jana](#) (Eds). 2021 <https://doi.org/10.1002/9783527832095.ch3>. Online ISBN:9783527832095. 10 December 2021
8. Subramanian Natesan, Ravichandiran Vellayutham, Venkateshwaran Krishnaswami, Chandrasekar Ponnusamy, Saranya Thekkilaveedu, Dhilin Pathayappurakkal Mohanan, and Ruckmani Kandasamy (2021) Enhanced Topical Delivery of Drugs to the Eye Using Chitosan Based Systems. In: Advances in Polymer Science Chitosan for Biomaterials IV; Springer, Berlin, Heidelberg. https://doi.org/10.1007/12_2021_105. pp 381-409; July 2021. Online ISBN 978-3-030-83021-2
9. Nachimuthu S., Kandasamy R., Ponnusamy R., Dhanasekaran M., Thilagar S. (2021) Neurotoxicity of Polyherbal Formulations: Challenges and Potential Solutions. In: Medicinal Herbs and Fungi. Agrawal D.C., Dhanasekaran M. (eds) Springer, Singapore. https://doi.org/10.1007/978-981-33-4141-8_7. pp 187-201 ; January 2021. Online ISBN 978-981-33-4141-8
10. Nikhishaa Sree Raju, Venkateshwaran Krishnaswami, Sivakumar Vijayaraghavalu and **Ruckmani Kandasamy** (2020) Transdermal and bioactive nanocarriers. In Nanocosmetics: Fundamentals, Applications and Toxicity - Micro and Nano Technologies. (Ed) Arun Nanda, Sanju Nanda, Tuan Anh Nguyen, Yassine Slimani, Susai Rajendran. Elsevier, pages 17-33. ISBN 0128222867, 9780128222867; May 2020. DOI:10.1016/b978-0-12-822286-7.00002-4
11. L. Gayathri, B. Karthiyayini, **K. Ruckmani**, D. Dhanasekaran, and M. A. Akbarsha, (2020) Co-Occurrence of Ochratoxin A and Citrinin and Identifications of Fungi That Produce the Respective Mycotoxins in Mold-Contaminated Rice, Corn and Groundnut Samples. In Ochratoxin A and Aflatoxin B1: New Research, Reuben Hess (ed), Nova Science Publishers, Inc., pp 67-100; BISAC: SCI013000, ISBN: 978-1-53617-416-8; March 2020
12. Azeera M., Vaidevi S., Kumar J., Shanmugarathinam A., Ruckmani K. (2019) Chitosan-Based Systems in Tissue Engineering. In: Jana S., Jana S. (eds) Functional Chitosan. Springer, Singapore. DOI: doi.org/10.1007/978-981-15-0263-7_10. pp 297-320; 06 March 2020. Online ISBN 978-981-15-0263-7
13. Natesan S., Krishnaswami V., Thekkila Veedu S., Pathayappurakkal Mohanan D., Ruckmani K., Palanichamy R. (2019) Chitosan-Based Ocular Drug Delivery Systems. In: Jana S., Jana S. (eds) Functional Chitosan. Springer, Singapore. DOI: doi.org/10.1007/978-981-15-0263-7_4. 06 March 2020. Online ISBN 978-981-15-0263-7
14. Nachimuthu S., Kandasamy R., Ponnusamy R., Deruiter J., Dhanasekaran M., Thilagar S. (2019) L-Ergothioneine: A Potential Bioactive Compound from Edible Mushrooms. In: Agrawal D., Dhanasekaran M. (eds) Medicinal Mushrooms. Springer, Singapore.

DOI: doi.org/10.1007/978-981-13-6382-5_16. pp 391-407. Springer, 13-May-2019.
Online ISBN 978-981-13-6382-5

15. Azeera M., Vaidevi S., Ruckmani K. (2018) Characterization Techniques of Hydrogel and Its Applications. In: Mondal M. (eds) Cellulose-Based Superabsorbent Hydrogels. Polymers and Polymeric Composites: A Reference Series. Springer, Cham. DOI: doi.org/10.1007/978-3-319-76573-0_25-1. 17 Jan 2019. Online ISBN 978-3-319-77830-3. pp 737-761
16. S. Vaidevi, M. Azeera, **K. Ruckmani** and S. Lakshmana Prabu (2018) Modified Biopolymers and Its Potential Significance in Targeted Drug Delivery and Disease Diagnosis, In: Advances in Polymers for Biomedical Applications Deepak Pathania and Bhuvanesh Gupta (eds) Nova Science Publishers, Inc. pp 143-170; ISBN: 978-1-53613-612-8. September 2018
17. Sakthivel Lakshmana Prabu and **Kandasamy Ruckmani** (2017) Biopolymer in Gene Delivery In: Advanced Technology for Delivering Therapeutics, In: Advanced Technology for Delivering Therapeutics. Sabyasachi Maiti and Kalyan Kumar Sen (eds) In Tech Open
18. S. Lakshmana Prabu 1, T.N.K. Suriyaprakash 2, K. Ruckmani 1, R. Thirumurugan 3 (2017) GMP in Pharma Manufacturing—Description of GMP as Related to Air-Handling Units and Prevention of Contamination and Implementation of GMP Regulatory Requirements. In : Developments in Surface Contamination and Cleaning: Types of contamination and contamination resources (eds) Edited by: Rajiv Kohli and K.L. Mittal. 9(3), 87-123. <https://doi.org/10.1016/B978-0-323-43158-3.00005-8>
19. Prabu, Sakthivel Lakshmana, TNK Suriyaprakash, **Ruckmani Kandasamy** and Thirumurugan Rathinasabapathy (2016) Effective Waste Water Treatment and its Management. In : Toxicity and Waste Management Using Bioremediation, Ashok K. Rathoure and Vinod K. Dhatwalia (eds) :10.4018/978-1-4666-9734-8.ch016. December, 2015
20. S. Lakshmana Prabu, T.N.K. Suriyaprakash, **K. Ruckmani** and R. Thirumurugan (2015). Biopharmaceutics and Pharmacokinetics In: Basic Pharmacokinetic Concepts and Some Clinical Applications, Dr. Tarek A Ahmed (Ed.), InTech, DOI: 10.5772/61160. November 18th 2015.
21. Lakshmana Prabu S, Sharavanan SP, Shanmugarathianm A, **Ruckmani K**, Bhuvaneshwari A, (2014), "Preparation and Characterisation of Leflunomide Loaded Nanosuspensions for Rheumatoid Arthritis" in NanoBio Pharmaceutical Technology Applications and Perspectives, ISBN 9789351072935, Elsevier, India, New Delhi (p 214-219).
22. Lakshmana Prabu S, Sharavanan SP, Shanmugarathianm A, **Ruckmani K**, Aravindan S, Bhuvaneshwari A, Manikandan V, (2014), "Diclofenac Sodium Nanosuspension: An Approach To Improve Anti-Inflammatory Therapy", in NanoBio Pharmaceutical Technology Applications and Perspectives, ISBN 9789351072935, Elsevier, India, New Delhi (p 220-225).
23. Chapter titled 'Characterization Studies of Sunlight Induced Biosynthesis of Silver Nanoparticles using Solanum melongena (Eggplant)' was published in a book "Nanobio Pharmaceutical Technology – Applications and Perspectives" edited by Latha Subbiah, Selvamani Palanisamy and Subramanian Natesan. Published by ELSEVIER (A division of Reed Elsevier India Pvt Ltd) 2014. ISBN: 978-935-107-293-5. P.No. 50-58. Authors: V Aravindhana, CS Kumar, HLJ Kumari, K Ruckmani

Publications

2025

1. Jeyanthi L., Sivadharshini Kamaraj, Ruckmani Kandasamy & Shanmugarathinam Alagarsamy (2025) Electrospinning: A New Frontier in Peptide Therapeutics. *AAPS PharmSciTech* **26**, 69 (2025). <https://doi.org/10.1208/s12249-025-03054-2> (ISI impact factor:3.4; Q1)

2024

2. Mariya Gover Antoniraj, Ruckmani Kandasamy (2024) pH-responsive chitosan copolymer synthesized via click chemistry for design of polymeric nanoparticles for targeted drug delivery. *Carbohydrate Research*, **Volume 542**, August 2024, 109200 (ISI impact factor:2.4; Q2)
3. Nagamalai Sakthi Vignesh , Murugan Kiruthika , Govindan Pothiyaraj , Balasubramaniam Ashokkumar , Kannan Selvi Uma Bharathi , Ruckmani Kandasamy , Muniyasamy Shanmugam , Jitendra Kumar Singh , Perumal Varalakshmi (2024) Uncovering the Nutraceutical and Biorefinery applications from two different Marine macroalgae *Sargassum polycystum* and *Rosenvingea intricata*, *Biocatalysis and Agricultural Biotechnology* Available online 7 June 2024, 103274, (ISI impact factor : 4.0; Q1)
4. Shanmugarathinam Alagarsamy*, Subhasini Kandasamy, Ruckmani Kandasamy, Nandhamurugan Ramachandran, Gopikrishnan Muthurasu, Mukesh Kumar Venkatesan (2024) Polymeric Nanoparticles for Oral Delivery of Biopharmaceuticals: An Overview. *J. innov.appl. pharm. Sci*, 9[1] 2024, 1-8
5. C.Raja Mohan, K. Ruckmani, J. Kabiriyel (2024) Correlation between electrical conductivity and antibacterial activity of chitosan -stabilized copper and silver nanoparticle. *Carbohydrate Polymer Technologies and Applications* 7 (2024) 100503 <https://doi.org/10.1016/j.carpta.2024.100503>. (ISI impact factor: 5.5; Q1).
6. Raja, R., Sundararaj, R. & **Kandasamy, R.** (2024) Identification of small molecule inhibitors against Lin28/let-7 to suppress tumor progression and its alleviation role in LIN28-dependent glucose metabolism. *Med Oncol* **41**, 118. <https://doi.org/10.1007/s12032-024-02350-4>. (ISI impact factor: 3.4;Q2).
7. Mariya Gover Antoniraj, Yamini Dhayanandamoorthy, Kumar Ponnuchamy, **Ruckmani Kandasamy**, Pandima Devi Kasi (2024) Study the anticancer efficacy of doxorubicin-loaded redox-responsive chitosan-derived nanoparticles in the MDA-MB-231 cell line. *Carbohydrate Research* **Volume 536**, February 7, 2024, 109049 (ISI impact factor: 3.1; Q2).
8. Abdul Azeez Nazeer*, Krishnaswami Venkateshwaran, Kandasamy Ruckmani, Muthupandian Saravanan and Vijaykumar Sudarshana Deepa Importance of Nano-carriers, Surfactant System, and their Loading Mechanism to Improve the Absorption and Bioavailability of Drugs: A Review. *Advances in Natural Sciences: Nanoscience and Nanotechnology* (ISI impact factor: 2.1; Q2)

2023

9. 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*. <https://doi.org/10.1007/s13233-023-00181-2>. Published online on 13, July, 2023. (ISI impact factor: 2.4; Q2)
10. Nandakumar Selvasudha Joseph PushpaSweety Thekkila-Veedu Saranya Kandasamy Ruckmani *, Loganathan Gayathri (2023) Development of Alkaline-stable Nanoformulation of Nisin: Special Insights Through Cytotoxic and Antibacterial Studies. *Environmental Science and Pollution Research* (ISI impact factor: 5.19, Q1) PMID: 37204569. DOI: [10.1007/s11356-023-27524-x](https://doi.org/10.1007/s11356-023-27524-x)
11. Dinesh T V, Beutline Malgija, Mano Ranjana Ponraj, Pavankumar Muralakar, Jesse Joel

- Thathapudi, Ruckmani Periyasamy, Jeyasankar Alagarmalai, Anna Benedict Balakrishnan, Perumal Samy Ramar, Jannet Vennila James, Jebasingh Bhagavathsingh (2023) Design of Novel Pyrimidine Based Remdesivir Analogues with Dual Target Specificity for SARS CoV-2: A Computational approach. International Journal of Biological Macromolecules (Accepted) (ISI impact factor: 8.025, Q1). PMID: [37148943](https://pubmed.ncbi.nlm.nih.gov/37148943/)
12. Jeseeta Suresh, Nirmal Aravindaraj, Venkateshwaran Krishnaswami and Ruckmani Kandasamy* (2023) Oral Film Technology: A Perspective on Translational Research and Clinical Studies. Macromolecular research (ISI impact factor: 2.4, Q2). <https://doi.org/10.1007/s13233-023-00185-y> . 6 July 2023
 13. Mariya Gover Antoniraj, Ramar Mohan Kumar, Henry Linda Jeeva Kumari, Subramanian Natesan, Ruckmani Kandasamy*(2023) Fabrication of chitosan-based redox-responsive polymeric nanoparticles: In-vitro and in-vivo evaluation for treating airway inflammation in asthma" Journal of Drug Delivery Science and Technology (ISI impact factor: 5.062, Q1). <https://doi.org/10.1016/j.jddst.2023.104473>
 14. Selvakumar Muruganantham, Venkateshwaran Krishnaswami, Ruckmani Kandasamy & Shanmugarathinam Alagarsamy (2023) Potentiating the solubility of BCS class II drug Zaltoprofen using Nanodispersion Technology Journal of Dispersion Science and Technology, Jan 2023, <https://doi.org/10.1080/01932691.2023.2173224> (ISI impact factor: 2.057, Q1).
 15. Selvakumar Muruganantham, Venkateshwaran Krishnaswami, Shanmugarathinam Alagarsamy and Ruckmani Kandasamy (2023) Overview on High Performance Thin Layer Chromatography and its applications in Pesticide analysis. Current Analytical Chemistry. 19(3), 240-261, DOI: [10.2174/1573411019666221226160446](https://doi.org/10.2174/1573411019666221226160446) Feb, 2023
 16. Krubha Athirathinam, Selvasudha Nandakumar, Shailendra Kumar Verma, **Ruckmani Kandasamy *** (2023) Determination of Conformational and Functional Stability of Potential Plague Vaccine Candidate in Formulation. Vaccines 2023, 11(1),. <https://doi.org/10.3390/vaccines11010027> (ISI impact factor: 4.961)

2022

17. Sreeranjini Sukumaran Rajamma, Venkateshwaran Krishnaswami, Sakthivel Lakshmana Prabu and Ruckmani Kandasamy* (2022) Geophila repens phytosome-loaded intranasal gel with improved nasal permeation for the effective treatment of Alzheimer's disease. Journal of Drug Delivery Science and Technology [Volume 69](#), March 2022, 103087 (ISI impact factor: 3.981, Q1).
18. Nirmal Aravindraj, Jeseeta Suresh, Venkateshwaran Krishnaswami, Shanmugarathinam Alagarsamy and Ruckmani Kandasamy* (2022) Guar gum based Oral Films for Hypertensive Urgencies (2022) Natural Product Research. Published online: 15 Feb 2022 (ISI impact factor: 2.861, Q2).
19. Mohan Kumar Ramar, Kumarappan Chidambaram, Balakumar Chandrasekaran, Ruckmani Kandasamy* (2022) Standardization, in-silico and *in-vivo* safety assessment of methanol extract of Ziziphus mauritiana Lam leaves. Regulatory Toxicology and Pharmacology. [Volume 131](#), June 2022, 105144 (ISI impact factor: 3.271, Q1)
20. Krubha Athirathinam, Selvasudha Nandakumar, Ruckmani Kandasamy* (2022) Biopolymers and Osmolytes – A Focus Towards The Prospects of Stability and

- Adjuvanticity of Vaccines (2022) Macromolecular Research. Macromol Res. Jun 22 : Macromol. Res., 30(9), 599-608 (2022) (ISI impact factor: 2.227, Q2). doi: 10.1007/s13233-022-0068-y
21. Mohan KumarRamar, Linda Jeeva Kumari Henry, Shyam Sunder Ramachandran, Kumarappan Chidambaram, RuckmaniKandasamy* (2022) Ziziphus mauritiana Lam attenuates inflammation via downregulating NFκB pathway in LPS-stimulated RAW 264.7 macrophages & OVA-induced airway inflammation in mice models. Journal of Ethnopharmacology. Volume 295, 15 September 2022, 115445. (ISI impact factor: 4.36, Q1). doi: 10.1016/j.jep.2022.115445.
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PROFESSIONAL MEMBERSHIP

- Member- American Association of Pharmaceutical Scientists
- Governor nominee –Planning Board of Mother Theresa Women’s University, Kodaikanal. April 2010 to April 2013
- Member, Academic Council, Mother Theresa Women’s University, Kodaikanal
- Member, Academic Council, St. Joseph College (Autonomous) , Tiruchirappalli
- Coordinator, Field of Pharmaceutical Technology, Tamilaga Ariviyal Peravai-10th Conference, Manonmanium Sundaranar University, Tirunelveli May 2010.
- Coordinator, Field of Pharmaceutical Technology, Tamilaga Ariviyal Peravai-9th Conference, Alagappa University, Karaikudi 11-13 September 2009.
- Member, Institutional Animal Ethical Committee, Bharathidasan University, Tiruchirappalli (2000- 2014); K.A.P.V.Medical College, Tiruchirappalli(2006-2014)
- Member Secretary & Chairman - Institutional Animal Ethical Committee , Bharathidasan Institute of Technology, Anna University Tiruchirappalli (2013-2016)
- Chairman - Institutional Animal Ethical Committee, Bharathidasan Institute of Technology, Anna University Tiruchirappalli (2017-2022)
- Chairman of the ISTE (Indian Society for Technical Education) Chapter which has been awarded the Best ISTE chapter award 2004
- Member-Board of Governors, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli (2013-till date)
- Member – Research Advisory Committee, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli (2012- till date)
- Member - Senate, The Tamilnadu Dr.M.G.R. Medical University, Chennai (1999- 2005)
- Member – Board of Studies (Pharmacy), The Tamilnadu Dr.M.G.R. Medical University, Chennai (2001-2003)
- Member – Faculty of Pharmacy, The Tamilnadu Dr.M.G.R. Medical University, Chennai (19.03.2004 -04.03.2005)
- Member – Board of Studies (Pharmacy), Annamalai University, Annamalainagar (2014-)

- PhD examiner for various national and international universities.
- Special invitee as Resource person in various AICTE, UGC sponsored conferences, workshops and symposium.
- Coordinator for AICTE - NBA Accreditation of Periyar College of Pharmaceutical Sciences for Girls(PCPSG),Tiruchirappalli
- Coordinator for ISO certification of PCPPSG, Tiruchirappalli
- National advisory member – National seminar on “Recent Trends and Future Advances in Life Sciences” on 26th& 27 Feb’2015 at Central University of Tamilnadu, Tiruvarur.
- National advisory member- International conference on ‘Drugs discovery and development from natural resources’ on 5th and 6th February 2014 at Regional Institute of paramedical and nursing sciences (RIPANS), Aizawl, Mizoram.
- Member (2013-2019) Board of Studies –Faculty of Technology, Anna University, Chennai
- Member (2013-2016) Board of Studies II for M.Sc – Chettinad Academy of Research and Education, Kancheepuram.
- Member, Board of studies in Pharmacy - Annamalai University, Chidambaram.
- Member (1999-2005) Senate -The Tamilnadu Dr. M.G.R Medical University, Chennai
- Member (2001 – 2003) Board of Studies (Pharmacy) -The TamilnaduDr.M.G.R. Medical University, Chennai.
- Member (19.03.2004 -04.03.2005) - Faculty of Pharmacy -The TamilnaduDr.M.G.R. Medical University, Chennai
- Member (2003-2005) Board of Studies (Pharmaceutical Engineering & Technology), Bharathidasan University, Trichy
- Recognized Guide for PhD-Bharathidasan University, Trichy ; The Tamil Nadu Dr. M. G. R. Medical University, Chennai
- Member – Board of Examiners - Annamalai University, Chidambaram ; The Tamilnadu Dr. M.G.R. Medical University, Chennai; Mother Theresa Women’s University Manonmaniam Sundaranar University, Tirunelveli; SASTRA University Thanjavur
- Member (2000 – 2003)- N.S.S. Advisory committee - The Tamilnadu Dr.M.G.R. Medical University, Chennai
- Member (2004 -2005)- American chemical Society (No. 2363669)
- Member - Indian Local chapter of controlled Release Society Inc (USA)
- Life member - Association of Pharmaceutical Teachers of India (TN/LM 135)
- Life member - Indian Association of Biomedical Scientists (L 408)
- Associate Life Member – Indian Hospital Pharmacist Association (ALM 50044)

- Life member - Indian Pharmaceutical Association (TN/MDS/LM/0195)
- Life member - Indian Society for Technical Education (LM/34360)
- Life member - Indian Pharmacists Association
- Regular invited speaker for various seminars/workshops/conferences.