

1. *Name of the Faculty :* Dr. M. Sasikala
2. *Qualification :* M.Pharm.,Ph.D.,
3. *Faculty ERP ID :* P0013
4. *Designation :* Professor and Head
5. *Department :* Pharmaceutical Analysis
6. *Date of joining :* 26.10.2015
7. *Official E-Mail ID :* sasikala@kcp.edu.in



### Work Experience:

S. No.	Professional	Subject	Institutions	University	Month & Year
1.	Professor & Head	Pharmaceutical Analysis	Karpagam College of Pharmacy, Coimbatore – 641032	The Tamil Nadu Dr. M.G.R. Medical University, Chennai – 600032	January & 2023
2.	Professor	Pharmaceutical Analysis	Karpagam College of Pharmacy, Coimbatore – 641032	The Tamil Nadu Dr. M.G.R. Medical University, Chennai – 600032	April & 2021
3.	Associate Professor	Pharmaceutical Analysis	Karpagam College of Pharmacy, Coimbatore – 641032	The Tamil Nadu Dr. M.G.R. Medical University, Chennai – 600032	March & 2017
4.	Assistant Professor	Pharmaceutical Analysis	Karpagam College of Pharmacy, Coimbatore – 641032	The Tamil Nadu Dr. M.G.R. Medical University, Chennai – 600032	October & 2015
5.	Assistant Professor	Pharmaceutical Analysis	Seven Hills College of Pharmacy, Tirupati – 517561	Jawaharlal Nehru Technological University, Anantapur – 515002	December & 2012
6.	Assistant Professor	Pharmaceutical Analysis	Sri Padmavathi School of Pharmacy, Tirupathi – 517503	Jawaharlal Nehru Technological University, Anantapur – 515002	January & 2009

### Educational Details:

S. No.	Degree	Subject	College/School	University	Month & Year of Passing
1.	Ph.D	Pharmaceutical Analysis	Faculty of Pharmacy, Karpagam Academy of Higher Education, Coimbatore – 641021	Karpagam Academy of Higher Education, Coimbatore – 641021	April & 2021
2.	M.Pharm	Pharmaceutical Analysis	College of Pharmacy, SRIPMS, Coimbatore – 641044	The Tamil Nadu Dr. M.G.R. Medical University, Chennai – 600032	March & 2009
3.	B. Pharm	Pharmacy	KMCH College of Pharmacy, Coimbatore – 641048	The Tamil Nadu Dr. M.G.R. Medical University, Chennai – 600032	August & 2006

8. Teaching Experience (in years) : 13.6 Years
9. Industrial Experience (in years) : Nil
10. No. of Publications : SCI/WoS : 02  
Scopus : 12  
Peer reviewed: 18
11. No. of Papers Presented in Conferences : International: 15  
National: 20
12. No. of Conference/Seminars/FDPs attended : Conference/Seminars: 27  
FDPs : 31
13. No. of Research Grants / Projects received : 01
14. Patents : Published: 03  
Granted : Nil
15. No. of Consultancy services offered : 10 (33,600 INR)

### No. of Awards

1. Recognized as “Reviewer” in the Journal of Pharmaceutical Innovation, Springer Nature.
2. Recognized as “Best Editor” for the academic year 2024 in the International Journal of Pharmaceutical Chemistry and Analysis.
3. Received “Elsevier Reviewer award” for peer reviews in International Journal of Biological Macromolecules and Heliyon during 2023 – 2024.
4. Received “Elite” grade in NPTEL online certification course on “Fundamentals of Spectroscopy” done during Jan-Apr 2024.

5. Received "Best Young HOD Award" in National Award Ceremony on National Science Day Awards [NSD 2024] from Knowledge Research Academy (An MSME Registered Organization), Coimbatore.
6. Awarded with "Certificate of Reviewing" for 2 reviews in December 2023 by International Journal of Biological Macromolecules, Elsevier.
7. Secured Second Prize for the poster presented on the topic, "In-Silico Docking Studies of Alpha-glucosidase Inhibitors by Using Quercetin Derivatives" in the one day National Seminar on "Evade Global Consequences and Exploring scientific investigation on Pharmacy" held on 22<sup>nd</sup> November 2023, Organized by Sree Sastha Pharmacy College, Chennai-23.
8. Received your high society ISSN International Research Awards for the research "Isolation and in vivo evaluation of anti-breast cancer activity of resin glycoside merremoside from Ipomoea aquatica Forsskal in overcoming multi-drug resistance" under the title "International Best Researcher Award" in my field of study in ISSN International Research Awards & Congress 2023 (IIRAC-2023) held on 7<sup>th</sup> May 2023, at Grandeur Hall, Breeze Residency, Tiruchirappalli, Tamil Nadu, India.
9. Received "Certificate of Excellence in Reviewing" from International Journal of Pharmaceutical Chemistry and Analysis with Reviewer Certificate No. IJPCA-4569-2023 for the Manuscript title - A Comprehensive Review on the Biological Interest of 2-Mercaptobenzimidazole Derivatives.
10. Played role as an e-poster evaluator in the Continuing Education Programme in Pharmacy on "Bridging the Gap : Linking Analytical Techniques and Docking in Clinical Applications" is being organized by the department of Pharmaceutical Chemistry & Pharmaceutical Analysis of SRIPMS, College of Pharmacy in association with The Tamil Nadu Dr. M.G.R. Medical University, Chennai on Saturday, on 24<sup>th</sup> June 2023.
11. Received "Certificate of Excellence in Reviewing" from International Journal of Pharmaceutical Chemistry and Analysis with Reviewer Certificate No. IJPCA-4498-2023 for the Manuscript title - Preparation and Evaluation of Herbal Sunscreen Creams.
12. Presented with "Best Researcher Award" in International Research Awards on Science, Technology and Management on 30-Sep-2022 by VDGGOOD Professional Association, India.

13. Presented with "Young Scientist Award" in International Scientist Awards on Engineering, Science and Medicine on 28-Jan-2022 by VDGOD Professional Association, India.
14. Awarded with "Indian Researcher Award 2021" of International Research Association, England, UK.
15. Received "Young Women Scientist Award in Pharmacy" on the occasion of International Conference on "Recent trends in Pharmaceutical, Medical and Applied Sciences for Global Development during January 28-29, 2021 held by Pharma Medical Sciences Development Society, Rampur, UP, India.
16. Received "Elite" grade in NPTEL online certification course on "Spectroscopic techniques for Pharmaceutical and Biopharmaceutical Industries" done during Sep-Dec 2020.
17. Awarded with Mybo Online Course Completion Certificate on "Quality in Pharmaceutical Industry" during 15<sup>th</sup> August to 12<sup>th</sup> September 2020.
18. Received Best Paper Award for an oral presentation given on the topic, "Exploration of Anticancer potential of a Characterized Phytometabolite from South Indian River Spinach" in the Two Days "international e-Conference on Expanding Frontier of Pharmaceutical Research Towards Global Exigency" Organized by Department of Pharmaceutics, Karpagam College of Pharmacy, Cbe – 32 in association with Indian Pharmaceutical Association, Coimbatore Branch on 15<sup>th</sup> & 16<sup>th</sup> October 2020.

#### **No. of Publications:**

1. Manickavasagam Sasikala, Sellappan Mohan, Arjunan Karuppaiah, Vedi Karthick, Palanigoundar Atheyannan Ragul and Arumugam Nagarajan. NanoFlora: Unveiling the therapeutic potential of Ipomoea aquatica nanoparticles, Journal of Genetic Engineering and Biotechnology, Volume 23, Issue 1, 2025, 100470, ISSN 1687-157X, <https://doi.org/10.1016/j.jgeb.2025.100470>.  
(<https://www.sciencedirect.com/science/article/pii/S1687157X25000149>)
2. Nagarajan A, Vignesh C, Ramasamy T, Sasikala M and Mohan S. Beyond boundaries: pioneering discoveries in aldose reductase inhibition for diabetic neuropathy. Biologica Nyssana. 15 (2) December 2024:
3. Sasikala, M., Mohan, S., Geetha, M., Nisha, E., Narmadha, N., Nagarajan, A. In Silico design, synthesis and characterization of Quercetin derivatives as anti-diabetic

- agents. *Indian J. Heterocycl. Chem.*, 2024, 34, 513–520.  
<https://doi.org/10.59467/IJHC.2024.34.513>
4. Kannaiyan A, Bagchi S, Vijayan V, Georgiy P, Manickavasagam S, Kumar DS. Revolutionizing Women's Health: Artificial Intelligence's Impact on Obstetrics and Gynecology. *J South Asian Feder Obs Gynae* 2024; 16 (2):161-168.
  5. Sellamuthu, Satheeshkumar, Mohan Sellapan, C. S. Kandasamy, Dileep Kumar, Kavitha Kasimayan, and Sasikala Manickavasagam. "Analog-based Design and Development of Novel Molecules as Anti-tubercular Agents. " *Indian Journal of Pharmaceutical Education and Research* 57, no. 1 (2023): S105-S113.
  6. Sasikala, M., Mohan, S., Swarnakumari, S., Nagarajan, A. Isolation and in vivo evaluation of anti-breast cancer activity of resin glycoside merremoside from *Ipomoea aquatica* Forsskal in overcoming multi-drug resistance. *Phytomedicine Plus*, 2022, 2(4), 100359.
  7. Sasikala, M., Mohan, S., Swarnakumari, S., Nagarajan, A. Evaluation of the Role of Merromoside from *Ipomoea aquatica* Forsskal Hydroalcoholic Extract in the Downregulation of ROS Species in Overcoming MDR in Breast Cancer. *Asian Pacific Journal of Cancer Prevention*, 2022, 23(11), pp. 3657–3663.
  8. Sasikala M, Swarnakumari S and Mohan S. Defensive Consequences of Hydroalcoholic Extract and Isolated Compounds of *Ipomoea aquatica* Forsskal against DMBA Method. *Research Journal of Pharmacy and Technology*. 2021; 14(7):3863-8. doi: 10.52711/0974-360X.2021.00670.
  9. Sasikala M, Mohan S and Swarnakumari S , Highlights of Spectroscopic Analysis – A Review.(2021). *Int. J. Life Sci. Pharma Res.*11(2), P136-145  
<http://dx.doi.org/10.22376/ijpbs/lpr.2021.11.2.P136-145>.
  10. Sasikala M, Mohan S, Nandha Kumar K, Sathish Kumar M and Varshini N. HPTLC and Antioxidant activity of Ethanolic Extract of *Ipomoea obscura* (L.) Ker Gawl Stem. *Research Journal of Pharmacy and Technology*. 2020; 13(10):1-7.
  11. Sasikala M, Mohan S, Gokilambal V, Mymoona S and Hari P. Validated UV/Visible Spectroscopic Analytical Method Development and Stability Studies on Oseltamivir. *Research Journal of Pharmacy and Technology*. 2020; 13(9):4323-4328.
  12. Sasikala M, Sundaraganapathy R and Mohan S. MTT Assay on Anticancer Properties of Phytoconstituents from *Ipomoea aquatica* Forsskal using MCF-7 cell lines for

- breast cancer in Women. Research Journal of Pharmacy and Technology. 2020;13(3):1356-1360*
13. Sasikala M, Sundaraganapathy R and Mohan S. Invention of An Anticancer Moiety from Indian River Spinach using Pharmaceutical Analytical Techniques. *Research Journal of Pharmacy and Technology. 2019;12(7):3371-3376.*
  14. Sasikala M, Sundaraganapathy R and Mohan S. FTIR characterization of phytochemicals from *Ipomoea aquatica* Forsskal. *International Journal of Pharma and Bio sciences. 2019;10(1): 13-20.*
  15. Sasikala M and Sundaraganapathy R. Analytical Detection of Triterpenoids present in the Hydroalcoholic extract of *Ipomoea aquatica* Forssk in South India. *International Journal of ChemTech Research. 2018;11(8): 274-282.*
  16. Karpakavalli M, Nagaraja Perumal G, Prabakaran S, Prakash G, Sasikala M and Mohan S. An Overview: Concurrent course of Paracetamol and Ibuprofen As Antipyretics only to rehabilitate malaise and Not as a 'thermal phobia' control therapy, in Febrile Ill Patients. *Journal of Hospital Pharmacy. April to June, 2018; 13(2):186 – 198.*
  17. Sasikala M, Mohan S, Ajitha Vasudevan Nambiar, Dona S, Karpakavalli M and Sundaraganapathy R. High Performance Thin Layer Chromatographic Determination of Phytoconstituents in Hydroalcoholic and Methanolic Whole Plant Extract of *Peristylus goodyeroides* (D.Don) Lindl. *World Journal of Pharmaceutical Research. 2017, 6(10): 1405-1416.*
  18. Sasikala M, Mohan S, Haritha T H, Manoj K, Karpakavalli M and Sundaraganapathy R. Extraction And Phytochemical Screening of Whole Plant of *Peristylus Goodyeroides* (D. Don) Lindl. from Southern Whestern Ghats of India. *World Journal of Pharmaceutical Research. 2017, 6(10): 1394-1404.*
  19. Sasikala M and Sundaraganapathy R. Qualitative Analysis of Alkaloids Exist in the Hydroalcoholic Extract of *Ipomoea aquatica* Forssk. in Tamil Nadu. *International Journal of ChemTech Research, 2017,10(7): 446-454.*
  20. Sasikala M and Sundaraganapathy R. Fluorescence Detection of Phytoconstituents in Hydroalcoholic Extract of *Ipomoea aquatica* Forssk. by Thin Layer Chromatographic Analysis, *International Journal of Pharmacognosy and Phytochemical Research, 2017; 9(7): 990-996.*

21. Sasikala M and Sundaraganapathy R. Preliminary Phytochemical Evaluation of Hydroalcoholic Extract of *Ipomoea Aquatica* Forssk. from Aliyar Riverine in South India, *Int J Pharma Bio Sci*, 2017; 8(3): 356-365.
22. Karpakavalli M, Sasikala M, Sangilimuthu AY, Komala M and Mohan S. Crown Ether Proselytized Conglomeration and Anthelmintic Evaluation of BIS-(3-Phenyl, 5-Amino Pyrazolyl)-18- Crown-6 Composite, *Journal of Chemical and Pharmaceutical Sciences, Special Issue 10*; 2017:48-53.
23. Sasikala M and Sundaraganapathy R. Optimization of Extraction Method for *Ipomoea Aquatica* Forssk. [Indian River Spinach] From Its Whole Plant, *International Journal of Recent Scientific Research*, 2017; 8(5): 16967-16971.
24. Sasikala M, Sundara Ganapathy R, Karpakavalli M and Mohan S. Chemotaxonomical and Pharmacological Review on Medicinal Plants in Temperate Region, *International Journal of Pharmacy and Technology*, 2017, 9(1):29165-29172.
25. Karpakavalli M, Sangilimuthu AY, Sasikala M, Komala M, Ranjithkumar D and Mohan S. A Predominant Evaluation of Viable Templates for Asthma Therapy Exerting an In silico Analog Method, Virtual Library Screening, *Journal of Chemical and Pharmaceutical Research*, 2017, 9(1):43-53.
26. Sasikala M, Karpakavalli M, Ranjithkumar D, Prakash G, Vanathi P and Mohan S. In-vitro Free Radical Scavenging Activity Studies of Extracts and Isolated Compounds of *Eugenia jambolana* Lam. Seeds, *World Journal of Pharmaceutical Research*, (SJIF Impact Factor 6.805), 2016, Volume 5, Issue 6, 2021-2030.
27. Sasikala M, Karpakavalli M, Vanathi P, Ranjithkumar D, Prakash G and Mohan S. Validated UV spectrophotometric method development for evaluation and stability analysis of Tolvaptan in bulk drug and its formulation, *World Journal of Pharmacy and Pharmaceutical Sciences*, (SJIF Impact Factor 6.041), 2016, Volume 5, Issue 6, 2048-2063.
28. Ranjith Kumar D, Mohan S, Vanathi P, Prakash G, Sasikala M, Karpakavalli M. Development and Validation of UV Spectroscopic Method for Estimation of Milrinone in Formulation, *World Journal of Pharmaceutical Research*, 2016, 5(4), 1501-1508. (SJIF Impact Factor 6.805).
29. A. Kirankumar, B. Mamatha, Sasikala M, S. Monika and D. Ranganayakulu. Validated UV spectrophotometric method development and stability studies of Acamprosate

- calcium in bulk and tablet dosage form. *International Journal of PharmTech Research*. 2013;5(3):1241-1246.
30. Kishore Konam, Jilla Soujanya, Sasikala M and Kiran kumar A. Development and validation of RP-HPLC method for the determination of Bisoprolol fumarate tablets, *International Journal of Research in Pharmaceutical and Nano Sciences*. 2(1), 2013, 57 - 67.
  31. Sasikala M, Nithya S, Gowthami C, Bojja aswini, and Jamuna KM. Application of UV Spectrophotometric Method for Drug Interaction Studies of Mefenamic Acid with Ofloxacin, *International Journal of Research in Pharmaceutical and Nano Sciences*. 1(2), 2012, 274- 280. (Impact Factor: 0.879).
  32. Sasikala M, Bojja aswini, Gowthami CL, Nithya S, Jamuna KM and Kiran kumar A. Extraction, Isolation, Characterization of Phytoconstituents from *Curcuma Caesia* Roxb by Various Analytical Methods, *International Journal of Research in Pharmaceutical and Nano Sciences*. 1(2), 2012, 257- 268. (Impact Factor: 0.879).

## **No. of Papers Presented in Conferences**

### **POSTER PRESENTATION**

1. A poster presented on the topic, "Invitro Anti-Breast Cancer Evaluation of Ipomoea aquatica Silver and zinc nanoparticles by using MTT assay" at two days International Convention on Neuropharmacology: An Emerging Field in the Pharmacology organized by Department of Pharmacology, Karpagam College of Pharmacy, Coimbatore on 27<sup>th</sup> & 28<sup>th</sup> February 2025 [TNMGRMU sponsored].
2. A poster presented on the topic, "HPTLC ANALYSIS OF THE EXCIPIENT MELAMINE IN MARKETED MILK PRODUCTS" at two days International Convention on Neuropharmacology: An Emerging Field in the Pharmacology organized by Department of Pharmacology, Karpagam College of Pharmacy, Coimbatore on 27<sup>th</sup> & 28<sup>th</sup> February 2025 [TNMGRMU sponsored].
3. A poster presented on the topic, "Impurity Profiling in Fixed Dose Combinations: Addressing Regulatory Concerns and Analytical Challenges" at Two days National Conference on "Neuropharmacology & Neurogenetics, Department of Pharmaceutical Chemistry, JSS College of Pharmacy, Ooty on 7<sup>th</sup> & 8<sup>th</sup> February 2025.
4. A poster presented on the topic, "In-Silico Docking Studies of Alpha-Amylase Inhibitors by Using Quercetin Derivatives" in the one day National Seminar on



- "Evade Global Consequences and Exploring scientific investigation on Pharmacy" held on 22<sup>nd</sup> November 2023, Organized by Sree Sastha Pharmacy College, Chennai-23.*
5. *A poster presented on the topic, "In-Silico Docking Studies of Alpha-glucosidase Inhibitors by Using Quercetin Derivatives" in the one day National Seminar on "Evade Global Consequences and Exploring scientific investigation on Pharmacy" held on 22<sup>nd</sup> November 2023, Organized by Sree Sastha Pharmacy College, Chennai-23. [Secured Second Prize]*
  6. *An e- poster presented on the topic, "HPTLC bioautographic analysis in natural product chemistry – a recent research vision" in the two days National seminar on Preclinical to Clinical Approach in Neuropharmacology-Global Concern held on 16<sup>th</sup> & 17<sup>th</sup> March 2023, Organized by Department of Pharmacology, Karpagam College of Pharmacy, Coimbatore-32.*
  7. *An e- poster presented on the topic, "significance of natural isoflavones in polycystic ovarian syndrome treatment of women – a critical challenge" in the two days National seminar on Preclinical to Clinical Approach in Neuropharmacology-Global Concern held on 16<sup>th</sup> & 17<sup>th</sup> March 2023, Organized by Department of Pharmacology, Karpagam College of Pharmacy, Coimbatore-32.*
  8. *An e- poster presented on the topic, "Evaluation of Antimicrobial Activity of Ipomoea aquatica Forsskal hydroalcoholic extract as Novel Nanoparticle Drug Delivery System" in iCD3-2K23 at Karpagam College of Pharmacy, Coimbatore – 32, 27<sup>th</sup> & 28<sup>th</sup>, Feb, 2023. [DST-SERB and TNMGRMU sponsored].*
  9. *A poster presented on the topic, "Analytical method development and validation for Didanosine from its bulk drug" in the International Conference on Challenges in Drug Discovery and Delivery (ICCD3 - 2017), March 2 – 4, 2017, BITS Pilani (Pilani Campus), Pilani, Rajasthan (India). [SERB and CSIR sponsored].*
  10. *A poster presented on the topic, "Stability studies on Didanosine as per ICH guidelines" in the International Conference on Challenges in Drug Discovery and Delivery (ICCD3 - 2017), March 2 – 4, 2017, BITS Pilani (Pilani Campus), Pilani, Rajasthan (India). [SERB and CSIR sponsored].*
  11. *A poster presented on the topic, "Forced Degradation Studies on Ivabradine as per ICH guidelines" in the First International drug delivery congress (IDC 2017) on Exploring the advances and challenges in drug delivery with emphasis on nano held*

at RVS college of Pharmaceutical Sciences & RVS Padmavathi Ammal College of Pharmacy, Sullur on 20<sup>th</sup> & 21<sup>st</sup> January, 2017. (SERB, ICMR & TN MGR University sponsored).

12. A poster presented in the topic, "Collation of Taxonomy and DNA Bar-coding in Plants" in the International conference on Food, Energy and water Microbiology (ICFEWM-2016) held on 21<sup>st</sup>, 22<sup>nd</sup> & 23<sup>rd</sup> December, 2016 at School of Biosciences, Periyar University, Trichirapalli. (DST and FIST sponsored)
13. A poster presented in the topic, "Crown ether Promoted synthesis and Anthelmintic Evaluation of Bis-(3-phenyl,5-amino pyrrazoly)-18-crown-6 compound" in the International conference on Herbal Drug Development: Challenges and Opportunities – A Global Perspective held on 24<sup>th</sup> & 25<sup>th</sup> November, 2016 at Devaki Ammal College of Pharmacy, Kerala. (ICMR Sponsored)
14. A poster presented in the topic, "Isolation, identification, Characterization & Antioxidant perspectives of Two Algae- Chara globularis and Cladophora species (Stringe Algae)" in the International conference on Herbal Drug Development: Challenges and Opportunities – A Global Perspective held on 24<sup>th</sup> & 25<sup>th</sup> November, 2016 at Devaki Ammal College of Pharmacy, Kerala. (ICMR Sponsored)
15. A poster presented in the topic, "Plant Tissue Culture of Endangered Medicinal Plants: Current Status and Opportunities" in the National conference on Indigenous medicinal plants held on August 18 & 19, 2016 at Karpagam University, Coimbatore.
16. A poster presented in the topic, "Structural Bioinformatics – A Tool to Improve Plant Biology" in the National conference on Indigenous medicinal plants held on August 18 & 19, 2016 at Karpagam University, Coimbatore.
17. A poster presented on the topic, "DNA Barcoding-A mean for identifying medicinal plants" in the National conference on Indigenous medicinal plants held on August 18 & 19, 2016 at Karpagam University, Coimbatore.
18. A paper presented on the topic, "Assessment of Patients' Perception on Medication Information Leaflets in Community Pharmacy" in Indian Congress of Pharmacy Practice 2016 & 2<sup>nd</sup> Convention of IACP, April 2 & 3, 2016.
19. A paper presented on the topic, "Development of Spectrofluorimetric method for the determination of Isolated compounds 1 & 2 in Ethyl acetate Extract of Eugenia jambolana" in the National level conference on 62<sup>nd</sup> IPC – 2010.

20. *A paper presented on the topic, "Development of bioanalytical method for the determination of Paracetamol and Tramadol in human plasma by HPLC with PDA detection" in the National level conference on 60<sup>th</sup> IPC held at New Delhi from December 12<sup>th</sup> to 14<sup>th</sup>, 2008.*
21. *A paper presented on the topic, "Ideas to ideologies on in vitro antioxidant studies of the saponin biofraction from the stem bark of Aphanamixis polystachya" in the Indian Pharmaceutical Association Students' Congress held during 15<sup>th</sup> to 17<sup>th</sup> August, 2008 in Mumbai, India.*

#### **ORAL PRESENTATION**

1. *A presentation has given on the topic, "Design and Evaluation of Quercetin Derivatives for Anti-Diabetic Activity - An In Silico Study" in the International Conference on "Medicinal Chemistry in Integrated Drug Discovery" MC-ID2-2024 organized by Dept. of Pharm. Chemistry, Karpagam College of Pharmacy, Coimbatore from 3<sup>rd</sup> to 4<sup>th</sup> Sep, 2024 [DST-SERB and TNMMU Sponsored].*
2. *A presentation has given on the topic, " Research on Herbal Drug Development for Breast Cancer Treatment in Women" in 2<sup>nd</sup> International Webinar on Womens' Health and Breast Cancer" organized by Scientex Conferences, Bangkok, Thailand (in ZOOM Application) held from 20.05.2024 to 21.05.2024.*
3. *A presentation has given on the topic, "Artificial Intelligence in Quality Control Applicable for Pharmacokinetics & Drug Development" in the three days National Conference on "Bridging Pharma Research and Intellectual Property: Pioneering Healthcare Innovations" held from 15.02.2024 to 17.02.2024 at Erode College of Pharmacy, Erode and sponsored by APTI, TN Branch.*
4. *A presentation has given on the topic, "Analytical Insights for Pesticides determination in Environment and Food Product" in the three days National Conference on "Bridging Pharma Research and Intellectual Property: Pioneering Healthcare Innovations" held from 15.02.2024 to 17.02.2024 at Erode College of Pharmacy, Erode and sponsored by APTI, TN Branch.*
5. *A presentation has given on the topic, "Production, Identification and Assessment of Antidiabetic Activity of Ipomoea Aquatica Metal Nanoparticles Using Dose Densitometric HPTLC Method" in the two days National Conference on "Global perspectives in Pharmaceutics and Pharmacy Practice" during 7<sup>th</sup> and 8<sup>th</sup> December*

- 2023 held at Faculty of Pharmacy, Karpagam Academy of Higher Education, Cbe – 21.
6. A presentation has given on the topic, "Evaluation of Antimicrobial activity of *Ipomoea aquatica* Forsskal the hydroalcoholic extract as Nanoparticle Drug Delivery System" in the two day International Conference on Developments in Drug Delivery (iC-D3-2k23) during 27<sup>th</sup> and 28<sup>th</sup> February 2023 held at Karpagam College of Pharmacy, Cbe – 32. [DST-SERB and TNMMU Sponsored]
  7. A presentation has given on the topic, "Green Synthesis, Characterization and Bioautographic Antioxidant Evaluation of Nano Particles from Hydroalcoholic Extract of *Ipomoea aquatica* Forsskal" in three days National Conference on Multidisciplinary Research in Pharmaceutical Sciences during 9-11 February 2022 held by SRM College of Pharmacy.
  8. A presentation has given on the topic, "Revealing antibreast cancer potential of a characterized compound from water Morning Glory" in International Conference on "Recent trends in Pharmaceutical, Medical and Applied Sciences for Global Development during January 28-29, 2021 held by Pharma Medical Sciences Development Society, Rampur, UP, India.
  9. A presentation has given on the topic, "Exploration of Anticancer potential of a Characterized Phytometabolite from South Indian River Spinach" in one day webinar on "World Congress on Drug Development - 2020" with the theme of "A new Horizons in Drug Development and Research" organized by Arjyopa Health care held on 20<sup>th</sup> December 2020.
  10. A presentation has given on the topic, "Exploration of Anticancer potential of a Characterized Phytometabolite from South Indian River Spinach" in the Two Days "international e-Conference on Expanding Frontier of Pharmaceutical Research Towards Global Exigency" Organized by Department of Pharmaceutics, Karpagam College of Pharmacy, Cbe – 32 in association with Indian Pharmaceutical Association, Coimbatore Branch on 15<sup>th</sup> & 16<sup>th</sup> October 2020. (Received Best Paper Award)
  11. A presentation has given on the topic, "HPTLC Analysis of Phytoconstituents in *Peristylus goodyeroides* (D.Don) Lindl" in the Two Days National Symposium On "Nutrikinetic Assessment of Functional Foods from Indian Origin – Their Scientific And Global Perspective", 30<sup>th</sup> November – 1<sup>st</sup> December 2017, Department of

*Pharmaceutical Analysis, JSS College of Pharmacy, Rocklands, Ootacamund. (ICMR & DST sponsored)*

12. *A presentation has given on the topic "Investigation on Medicinal plants in Tepid Domain" in the National conference on Drug discovery from Medicinal and Aromatic plants held at Karpagam University, Coimbatore on 02<sup>nd</sup> & 03<sup>rd</sup> February, 2017.*
13. *A presentation has given on the topic "Chemotaxonomical and Pharmacological Review on Medicinal plants in Temperate Region" in the National conference on Convergence of technology in Phytopharmaceuticals and its importance in trade and entrepreneurship held at PSG College of Pharmacy, Coimbatore from November 11<sup>th</sup> to 12<sup>th</sup>, 2016. (DST & ICMR Sponsored).*
14. *A seminar has given on the topic "Related Substances in Pharmaceuticals" in one day National Seminar on Patient Safety & Cadd-molecular Modeling in Drug Design (PSCMMDD – 2013).*

#### **No. of Conference/Seminars/FDPs attended**

##### **CONFERENCE/SEMINARS**

##### **National:**

1. *Attended Two days National Seminar on "Envisioning New Bharat: Educational Reforms and Indigenous Systems" from 08.06.2024 to 09.06.2024 organized by ABRSM, New Delhi, THETA, Tamil Nadu and UVAS, Kerala at Hotel Vivanta, Coimbatore.*
2. *Participated in Ten Days National Level online workshop on "SPSS- Research Methods and Data Analysis" organized by ACT Academy, Kerala, from 23.07.2024 to 01.08.2024 through virtual mode.*
3. *Participated in two days National conference on " Global perspective in Pharmaceutics and Pharmacy Practice" held during 07.12.2023 & 08.12.2023 organized by department of Pharmaceutics and Pharmacy Practice, Karpagam Academy of Higher Education, Coimbatore.*
4. *Participated in "7 Day Technical Certificate Training in MD Simulations | GROMACS, VMD & NAMD" from 16 - 22 September 2023. [Funded by the Management of Karpagam Educational Institutions]*

5. *Participated in "One Day Hands-on Workshop on Statistical Discovery for Pharmaceutical Sciences Using JMP®" held on 28th June 2023 at Karpagam College of Pharmacy, Coimbatore – 32 in association with JMP Statistical Discovery LLC.*
6. *Participated in the Cloud-based Hands-on Workshop on "Computational methods in hit and lead identification /optimization for drug discovery" held on 08.08.2022 & 09.08.2022 Co-organized by Karpagam Academy of Higher Education and Schrödinger.*
7. *Attended a 7 days online workshop on "High Resolution NMR Spectroscopy in Liquids and Solids: Principles and Analysis of Spectra" from 04.07.2022 to 10.07.2022 hosted by NPTEL e-learn, IIT Madras.*
8. *Attended one day workshop on "Structure Based Drug Design with Maestro" conducted on 21.03.2022 held by the Department of Biotechnology, Faculty of Engineering, Karpagam Academy of Higher Education, Coimbatore.*
9. *Attended National level workshop and staff development program on Role of Molecular Docking and ADME in Drug Discovery using SeeSAR and StarDrop during 10.12.2021 & 11.12.2021 held by Royal Global University, Guwahati.*
10. *AICTE Sponsored Online STTP (Phase-III) on "Preclinical and clinical aspects in Molecular Neuroscience" from 28<sup>th</sup> June to 3<sup>rd</sup> July, 2021 by Seven Hills College of Pharmacy, Tirupati.*
11. *AICTE Sponsored Online STTP (Phase-II) on "Drug Development Approaches in Molecular Neuroscience" from May 24-29, 2021 by Seven Hills College of Pharmacy, Tirupati.*
12. *Structure Based and Ligand Based Drug Design, Department of Pharmaceutical Chemistry, JSS College of Pharmacy, Mysuru, 13-14<sup>th</sup> July 2020.*
13. *Understanding OBS Studio & Streamyard for E-Content Creation and Live Streaming, Faculty of Humanities and Science, Adayalampattu Phase II Campus, Dr. MGR Educational and Research Institute, 10-11<sup>th</sup> July 2020.*
14. *Critical Appraisal of Biomedical-Literature in Clinical Pharmacy, Chebrolu Hanumaiah Institute of Pharmaceutical Sciences, Guntur in Association with Indian Pharmaceutical Association, Education Division, Group Pharmaceuticals Ltd. and Karnataka Registered Pharmacists Association, 20<sup>th</sup> June 2020.*

15. *National seminar on "Current Scenario on Global Nutraceuticals and Phytopharmaceuticals" held at Karpagam College of Pharmacy, Coimbatore on 27<sup>th</sup> October 2017. (TN MGR University sponsored)*
16. *National seminar on Neurodegenerative diseases: Current and Future Perspectives held at Karpagam College of Pharmacy, Coimbatore on 30<sup>th</sup> June, 2017. (TN MGR University sponsored)*
17. *National conference on Drug discovery from Medicinal and Aromatic plants held at Karpagam University, Coimbatore on 02<sup>nd</sup> & 03<sup>rd</sup> February, 2017.*
18. *National conference on Convergence of technology in Phytopharmaceuticals and its importance in trade and entrepreneurship held at PSG College of Pharmacy, Coimbatore from November 11<sup>th</sup> to 12<sup>th</sup>, 2016. (DST & ICMR Sponsored).*
19. *National conference on Indigenous medicinal plants held on August 18 & 19, 2016 at Karpagam University, Coimbatore.*
20. *National seminar on Advancing chemotherapy with a merge of Medicinal chemistry and Bioinformatics held at Karpagam College of Pharmacy, Coimbatore on 17<sup>th</sup> June, 2016. (TN MGR University sponsored)*
21. *Pharmacon – 2013 on Recent Trends in Pharmaceutical Research held at Nehru College of Pharmacy, Pampady, Thrissur on 21<sup>st</sup> & 22<sup>nd</sup> November 2013.*
22. *National level conference held at Seven Hills College of Pharmacy, Tirupathi on April 5<sup>th</sup> and 6<sup>th</sup>, 2013.*
23. *National level conference on 60<sup>th</sup> IPC held at New Delhi from December 12<sup>th</sup> to 14<sup>th</sup>, 2008.*
24. *The Indian Pharmaceutical Association Students' Congress held during 15<sup>th</sup> to 17<sup>th</sup> August, 2008 in Mumbai, India.*
25. *National seminar on technical advances in pharmaceutical sciences, held at KMCH College of Pharmacy, Coimbatore in 2005.*

**International:**

1. *The Third Edition of KrupaPharmaCon online conference and workshop on "Drug Development 4.0: Emerging Technologies" organized by Krupanidhi College of Pharmacy, Bengaluru on 2<sup>nd</sup> to 3<sup>rd</sup> July 2021.*
2. *First International drug delivery congress (IDC 2017) on Exploring the advances and challenges in drug delivery with emphasis on nano held at RVS college of*

*Pharmaceutical Sciences & RVS Padmavathi Ammal College of Pharmacy, Sulur on 20<sup>th</sup> & 21<sup>st</sup> January, 2017. (SERB, ICMR & TN MGR University sponsored)*

#### **FDPs**

1. *Attended One-week online FDP Entitled "Phytopharmacology and Drug Discovery: Exploring natural sources for Novel Therapeutics" From 23.03.2025 to 29.03.2025 organized by Sir C R Reddy College of Pharmaceutical Sciences, Eluru-534007, Andhra Pradesh, India.*
2. *Attended Two-day National Level e-Workshop on "Creating Multimedia Content for Blended and Hybrid Learning Models " Organised by A.C.T Academy Kerala held between 24.01.2025 & 25.01.2025.*
3. *Attended one day FDP entitled "Developing a Knowledge Frame Work for Effective Research" on 17<sup>th</sup> April, 2024; organized by Department of Pharmaceutical Chemistry, Karpagam College of Pharmacy, Coimbatore - 32*
4. *Attended one week e-FDP on "Unleashing the potential Advancement in Pharmaceutical Education and Research" from 29.04.2024 to 04.05.2024 organized by Tagore College of Pharmacy, Chennai-127.*
5. *Participated in Five days online FDP on "Pharmacy Teaching, Learning and Research: Trends and Tools" (PTLRT-2024) from 22.04.2024 to 26.04.2024 organized by Department of Pharmacology, Karpagam College of Pharmacy, Coimbatore – 32, in association with APTI, TN Branch.*
6. *Participated in Three days e-FDP on "Strengthen Marginal: Reconcile the latest and Enactment in Pharmaceutical Sciences" held from 26.03.2024 to 28.03.2024 organized by Sree Sastha Pharmacy College, Chembarambakkam, Chennai-123.*
7. *Attended an One day FDP on "Unleashing Innovation in Curriculum Design with Outcome-Based Education" on 29.02.2024 held by InPods – Ed Tech.*
8. *Attended Five days online FDP on "Innovations and Challenges in Pharmacy" held from 26.02.2024 to 01.03.2024 by Saveetha College of Pharmacy, Chennai – 602105.*
9. *Attended 10 days FDP on "Faculty Development Program on Application of AI in Research Methods and Manuscripts Drafting Process (FDP AI RES 2024)" by EUDOXIA Research University, USA during 23.02.2024 & 04.03.2024.*
10. *Participated in the Continuing Education Programme in Pharmacy on "Bridging the Gap: Linking Analytical Techniques and Docking in Clinical Applications" is being organized by the department of*



*Pharmaceutical Chemistry & Pharmaceutical Analysis of SRIPMS, College of Pharmacy in association with The Tamil Nadu Dr. M.G.R. Medical University, Chennai on Saturday, on 24<sup>th</sup> June 2023.*

11. *"Implementation of Fourier Transform Infrared (FTIR) spectroscopy into hospital hygiene: from research to" on May 24, 2023 by LABROOTS.*
12. *Essentials of Current Pharmaceutical Quality and Regulatory Management system in industry from 06.06.2022 to 10.06.2022 by Department of Quality Assurance, Krupanithi College of Pharmacy, Bengaluru.*
13. *Impacting sepsis outcomes using MALDI – TOF: FDA Cleared application for rapid microbial ID direct from positive on 24.03.2022 by LABROOTS.*
14. *Structure Based Drug Design with Maestro on 21.03.2022 by Department of Biotechnology, FOE, KAHE, CBE.*
15. *Editor's training and awards on 07.03.2022 by Innovative Publications and Associated Academic Societies.*
16. *Training on HPTLC on 24.12.2021 by Anchrom enterprises, India Pvt.Ltd., Mumbai.*
17. *Reviewers Workshop 2021 from 22.10.2021 to 24.10.2021 by Innovative Education and Scientific Research Foundation (IESRF).*
18. *AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Internet of Things: Revolutionary Impact on Pharmaceutical Education and Industry (IoTRIPEI))" from 21/09/2021 to 25/09/2021 at Andhra University College of Pharmaceutical Sciences.*
19. *Online training on HPTLC on 13.08.2021 by HPTLC Association.*
20. *Continuing Education Programme on "The importance of simultaneously detecting and differentiating SARS-CoV-2 and Influenza during Flu season" on 09.08.2021 by Labroots, PACE.*
21. *Three Day Faculty Development Programme on "QbD in Formulation Development and IPR- Overview" organized by Krishna Teja Pharmacy College, Tirupati held on 15<sup>th</sup> to 17<sup>th</sup> June 2021.*
22. *International e-FDP on "Emerging trends and challenges in Pharmaceutical Sciences and Healthcare"organized by Nehru College of Pharmacy, Kerala, India from 7<sup>th</sup> to 19<sup>th</sup> September 2023.*
23. *Art of Effective Teaching, Department of English (Humanities And Sciences), Vidyajhothi Institute of Technology, Hyderabad, 3<sup>rd</sup> August 2020 to 8<sup>th</sup> August 2020.*

24. *Outcome Based Education Software, Vmedulife Software Services, 9<sup>th</sup> July 2020.*
25. *Lessons From Covid 19 – The Perspectives on Pharmacological and Pharmaceutical Sciences, School of Pharmacy, Sathyabama Institute of Science and Technology, Chennai, 7-9<sup>th</sup> July 2020.*
26. *Online National Faculty Development Programme Arise on Latest Trends in Pharmacology, Department of Pharmacology, Hindu College of Pharmacy, Guntur, Andhra Pradesh, 22<sup>nd</sup> - 24<sup>th</sup> June 2020.*
27. *One Week e-FDP on “Emerging Trends in Pharmaceutical Practices”, Aditya Bangalore Institute of Pharmacy Education & Research in Association with Indian Pharmaceutical Association, 14<sup>th</sup> - 18<sup>th</sup> June 2020.*
28. *JNTUK Sponsored One Week Online International Faculty Development Program/Skill Development Program on Emerging Innovations and Insights in Pharmaceutical Sciences, V. V. Institute Of Pharmaceutical Sciences, Gudlavalleru, 8<sup>th</sup> - 13<sup>th</sup> June 2020.*
29. *A Two - Day E - Faculty Development Program on “Virtual Teaching - Learning Moodle The Efficient Way”, The Faculty Of Humanities And Science, Adayalampattu Phase - II Campus in Association with The Institution of Engineers (India), Tiruvallur Local Centre, 29<sup>th</sup> - 30<sup>th</sup> May 2020.*
30. *Outcome Based Education Software, Vmedulife Software Services, 28<sup>th</sup> May 2020.*
31. *Faculty Awareness Programme on NBA to Keep in Touch with NBA Accreditation, Internal Quality Assurance Cell (IQAC), Pace Institute of Technology and Sciences, Ongole, 16<sup>th</sup> May 2020.*

#### **No. of Research Grants / Projects received**

1. *Sanctioned Seed Grant of 2,00,000 INR for the project entitled “Hybrids of a prenylated Alpinium isoflavone and redox sensitive Alpha lipoic acid as Silver nanoparticles (HYB-AIF-ALA-AgNPs) for Chemosensitization in overcoming multidrug resistant breast cancer” on 25.07.2023*

#### **No. of Patents**

1. *A process patent on “Method and System for Development of Forced degradation and Stability Indicating Studies of Drugs with Defined Parameters” issued on 03.05.2024 with the Application No. 202441033742A dated 27.04.2024.*

2. *A Design Patent on "X-Ray Diffraction Apparatus for Predicting Crystal Structure of Organic Compounds" issued on 03.05.2024 with Design no. 407658-001 dated 15.02.2024.*
3. *A Design Patent on "UV Based Thin Layer Chromatography Apparatus for Identification of Chemical Compounds" issued on 26.04.2024 with Design no. 407411-001 dated 13.02.2024.*

#### **No. of Consultancy services offered**

1. *Done on "HPTLC fingerprinting of extracts, isolates and nano formulations" for Tamil Nadu Agricultural University, Coimbatore, in July 2023 with the charge of 15000 INR.*
2. *Done on "UV/Visible spectral scanning for Herbal Fractions" for Royal College of Pharmacy, Coimbatore, in July 2023 with the charge of 2000 INR.*
3. *Done on "Photofluorimetric analysis of herbal samples" for Tamil Nadu Agricultural University, Coimbatore, in Feb 2023 with the charge of 600 INR.*
4. *Done on "HPTLC fingerprinting of Glucose from microbial sample" for Dept. of Microbiology, KAHE, in Feb 2023 with the charge of 1000 INR.*
5. *Done on "HPTLC analysis of herbal extract and Isolate (Insta comfort pain relief oil)" for API- project, KAHE, in Jan 2023 with FREE of cost.*
6. *Done on "Analysis of L- Glutamine by HPTLC" for API- project, KAHE, in Nov 2022 with FREE of cost.*
7. *Done on "HPTLC analysis of herbal extract (Insta comfort pain relief oil)" for API- project, KAHE, in Dec 2022 with FREE of cost.*
8. *Done on "HPTLC Fingerprinting of DEE isolate" for Faculty of Pharmacy, KAHE, in Dec 2021 with the charge of 1000 INR.*
9. *Done on "Analysis of components in starch biopolymer sample by HPTLC" for Regino ventures Private limited, in Dec 2021 with the charge of 4,000 INR.*
10. *Done on "New Method development and validation of the drug Liraglutide-HPLC" for AL- AMEEN College of Pharmacy, Bengaluru, in July- August 2021 with the charge of 10,000 INR.*