

## CURRICULUM VITAE

**Dr. S. LAKSHMANA PRABU**

**Assistant Professor (Sr. Gr)**

**Department of Pharmaceutical Technology**

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### ➤ Research Area:

- Formulation and Development – Nanodrug delivery and Topical drug delivery systems
- Herbal formulation development from metal nanoparticle
- Analytical method development and validation
- Environment Management

### ➤ Educational Qualifications:

<b>Qualification</b>	<b>College/University</b>	<b>Year of completion</b>	<b>Percentage</b>	<b>Class</b>
Ph.D. (specialization)	Pharmaceutical Science	2008	-	-
PGDIPRL	Intellectual Property Rights	2006	62.9	First class
PG (specialization)	Pharmaceutical Quality Assurance Practice	2000	69.73	First Class with Distinction
UG (specialization)	Pharmaceutical Sciences	1997	70.56	First Class

### Experience: (chronological order)

<b>Name of Company / Institutions</b>	<b>Designation of Post</b>	<b>From</b>	<b>To</b>	<b>Experience in Year</b>
Ranbaxy Laboratories Ltd., Goa	Quality Assurance Supervisor	01.06.2000	09.11.2002	2 years 5 months
Manipal College of Pharmaceutical Sciences, Manipal University, Manipal	Assistant Professor	04.02.2008	03.06.2008	4 Months

Manipal College of Pharmaceutical Sciences, Manipal University, Manipal	Lecturer	11.11.2002	03.02.2008	5 years 3 months
Shasun Chemicals and Drugs Ltd., Puducherry	Assistant Manager (Formulation & Development)	06.06.2008	05.09.2009	1 year 3 months
University College of Engineering (BIT Campus), Anna University, Tiruchirappalli	Assistant Professor	07.09.2009	Till date	14 years

**Awards / Honours Received:**

1. Junior Research Fellowship from University Grant Commission (UGC), Government of India (August 1998 – January 2000).
2. Qualified in GATE 1998 examination with 95.36 percentile (All India Rank – 110).
3. Nominated as Antiviral Research Society Fellow, Year 2018.

**Additional / Academic Responsibilities at University:**

1. Assistant to Director – Research, Anna University of Technology –Tiruchirappalli From 1<sup>st</sup> Jan 2012 to 31<sup>st</sup> July 2012.
2. Coordinator for Placement & Training for Department of Pharm. Tech. From Jul 2010 to August 2012.
3. Deputy Warden, Men’s Hostel, BIT Campus, Anna University, Tiruchirappalli, From Sep-2012 to July 2014.
4. Advisory Board member for student’s co-operative society, BIT Campus, Anna University, Tiruchirappalli.
5. Laboratory In charge From 2020 to till date.
6. Class Coordinator (2009- 2013, 2016, 2020-22)
7. Chief Anna University Representative Examinations
8. University Squad member
9. Syllabus Framing for Anna University B.Tech Pharmaceutical Technology (Regulations 2017, 2021).
10. Internal Quality Assurance Cell – Department from 2022 to till date

**Membership of Scientific and Professional Societies:**

1. Indian Pharmaceutical Association, Mumbai-Life Member. Membership No: KTK/MPL/LM/0064.
2. Association of Pharmacy Professions, Bhopal-Life Member. Membership No: APP/TN/LM/004/14.
3. Society of Pharmaceutical Education and Research. Membership No: SPER/LM/TN/016.
4. The Indian Pharmacists Association, TN/CH/IPHA-4041, Dated: 15.07.2016

5. Antiviral Research Society, Tamil Nadu. From 2016.

**Fellowships and Grants received:**

1. Junior Research Fellowship from University Grant Commission (UGC), Government of India from August 1998 to January 2000.
2. Systematic exploration and analysis of Indigenous Nagaland medicinal plant “*Clematis nepaulesis*” for the effective treatment of Rheumatoid Arthritis”; DBT, New Delhi Sanction No. BT/PRI17092/NER/95/429/2015 Dated 19.01.2017. Project Cost : Rs.67.00 Lakhs.
3. Seed Grant Scheme for Faculty Members sponsored by TEQIP- II during 2016 -2017 Rs.50000/-
4. **CENTER FOR TECHNOLOGY DEVELOPOMENT AND TRANSFER**, Anna University, Chennai sponsored **Students Innovative Project** 2019. (Jeseeta S, Nirmal A: ID: 1819S4388- Green Nanotechnologies: Synthesis of Metal Nanoparticles from *Cardiospermum Halicacabum* and Establishment of its Anti Rheumatoid Arthritis Potential through Gene Expression Technique - Amount sanctioned- Rs.25000/-).
5. Tamil Nadu State Council for Science and Technology, Chennai sponsored Student Project 2020 (J. Akash Micheal- Green synthesis of silver nanoparticle using leaf extract of *Vallaris solanacea* and systemic investigation of its anti-rheumatoid arthritis activity- Amount Sanction – Rs. 10,000/-
6. **CENTER FOR TECHNOLOGY DEVELOPOMENT AND TRANSFER**, Anna University, Chennai sponsored **Students Innovative Project** 2022. (S.N.Jegasubramanaiam and S. Santhosh Kumar: ID: 2122S4513- Amalgamation and assessment of cellular bioenergetics in biosynthesized metal nanoparticles using flower extracts of *Cassia alata* for the management of skin break out and aging - Amount sanctioned- Rs.25000/-).
7. **CENTER FOR TECHNOLOGY DEVELOPOMENT AND TRANSFER**, Anna University, Chennai sponsored **Students Innovative Project** 2022. (M. Sivagamasundari, S. Sowntharya, V. Sreevidhya: ID: 2122S4515- Biosynthesis and characterization of ZnO NPS stacked skin nanogel for the treatment of Rheumatoid Arthritis using *Acorus calamus* rhizome - Amount sanctioned- Rs.25000/-).

**Completed PG/UG Projects:**

- a. Number of PG Projects Completed: 20 Nos
- b. Number of UG Project Completed: 14 batches

**Research Guidance (M.S/Ph.D.) (Completed):**

Sl. No	Name of the scholar	Title of the thesis	Year of registration	Date of viva voce
1.				

➤ **Research Guidance (M.S/Ph.D.) (Ongoing):**

Sl. No	Name of the scholar	Tentative Title of the thesis	Year of registration	Status
1.	D. Ganesan	Hybrid Treatment techniques for Industrial Waste water steams	2017	Provisional Registration confirmed
2.	P. Mukesh	Carcinogenic and non-carcinogenic health risk associates with Ground water contamination in Industrial Zone	2022	Provisionally registered
3.	E. Manasseh Moses	A multi perspective systematic exploration of endemic medicinal plants form Bay Islands by Green synthesis for the field of Pharmacology	2023	Provisionally registered
4.	S. Dhivya	Modeling groundwater quality and its impact assessment due to improper disposal of biomedical wastes near surface water bodies.	2023	Provisionally registered

➤ **Publications:**

**1. Books / book chapters:**

**Book Editor**

1. Special Issue - International Journal of Research in Pharmacology & Pharmacotherapeutics, <http://www.ijrpp.com/specialarticles/2016/Anna%20University>, ISSN: 2278 – 2648.

2. Intellectual Property Rights. **S. Lakshmana Prabu**, T.N.K. Suriya Prakash Editors. InTech Publication, Croatia. 2017. ISBN 9789535132820.
3. Computer Applications in Drug Discovery and Development. A. Puratchikody, **S. Lakshmana Prabu**, A.Umamaheswari. IGI Global, USA. 2019. ISSN: 2327-9354.
4. Intellectual Property Rights- Patents. **S. Lakshmana Prabu**, T.N.K. Suriya Prakash, InTech Publication, Croatia, 2020, ISBN: 9781789857139.
5. Intellectual Property - **S. Lakshmana Prabu**, T.N.K. Suriya Prakash. InTech Publication, Croatia, 2022. ISBN 978183968920.
6. G. Venkatesan, **S. Lakshmana Prabu**, M. Rengasamy. Sustainability studies: Environmental and Energy Management, Bentham Science Publishers Pte. Ltd, Singapore. ISBN 9789815039931.
7. IPR- global perspective advances and challenges. **S. Lakshmana Prabu**, A.Umamaheswari. InTech Publication, Croatia. 2023. ISBN 9781837695027.
8. Dosage Forms - Emerging Trends and Prospective Drug-delivery Systems. **S. Lakshmana Prabu**, A.Umamaheswari. InTech Publication, Croatia (In Progress).

#### **Book Author**

1. TNK. Suriyaprakash, S. Lakshmana Prabu, A. Sumathi. Pharmaceutical Production Management. 2021, LAP Lambert Academic Publishing, Mauritius.

#### **Book Chapters**

1. **S. Lakshmana Prabu**, T.N.K. Suriya Prakash. **Extraction of Drug from the biological Matrix: A Review**. In: Applied Biological Engineering. Ganesh R. Naik Editor. InTech Publication, Croatia, 2012. ISBN 979-953-307-397-1.
2. **S. Lakshmana Prabu**, T. N. K. Suryaprakash, R. Thirumurugan. **Impact of Microbial Surface Contamination and Effective Environment Monitoring System in Pharmaceutical Manufacturing**. In: Developments in Surface Contamination and Cleaning, R. Kohli and K. L. Mittal (Editors), Volume 5, Elsevier, Oxford, U.K. January 2013; 165-190. ISBN 978-1-4377-7881-6.
3. **S. Lakshmana Prabu**, R. Thirumurugan, T.N.K. Suriya Prakash. **The role of the drug discovery, clinical and regulatory affairs teams in turning a potent agent into a registered product**. In: Elsevier Reference Module in Chemistry, Molecular Sciences and Chemical Engineering. Reedijk J (Ed.) Waltham, MA: Elsevier. May-2014, doi:10.1016/B978-0-12-409547-2.11400-3.
4. **S. Lakshmana Prabu**, T.N.K. Suriya Prakash, R. Thirumurugan. **Cleaning validation and its regulatory aspects in Pharmaceutical Industry**. In: Developments in Surface Contamination and Cleaning, R. Kohli (Editor), Volume 7, Elsevier, Oxford, U.K. 2015, pp. 129-186.

5. Smitha Rani, Suriyaprakash TNK, **Lakshmana Prabu S. Monograph of *Premna serratifolia* Linn.** In: Phytotherapy in the management of Diabetes and Hypertension. Eddouks M (Ed.), Vol. 2, Bentham Science Publishers, 2015; 295-306.
6. **S. Lakshmana Prabu**, T.N.K. Suriya Prakash, K. Ruckmani, R. Thirumurugan. **Biopharmaceutics and Pharmacokinetics.** In: Pharmacokinetic Principles in Theory and Application. InTech Publication, Croatia, 2015, 117-135. [<http://dx.doi.org/10.5772/61160>. ISBN No: 978-953-51-2197-8.
7. **S. Lakshmana Prabu**, T.N.K. Suriyaprakash, K. Ruckmani, R. Thirumurugan. **Effective Waste Water Treatment and its Management.** In: Toxicity and Waste Management Using Bioremediation". Rathoure A.K. and Dhatwalla V.K. (Eds). IGI Global, 2016, pp. 312-334. ISBN No: 9781466697348.
8. **S. Lakshmana Prabu**, G. Venkatesan. **Wastewater Treatment Methods.** In: Environmental Engineering: Current Perceptive (EECP). Research India Publication, New Delhi, India, 2016, 95-107.
9. **S. Lakshmana Prabu**, T.N.K. Suriya Prakash, K. Ruckmani, R. Thirumurugan. **GMP in pharma manufacturing - description of GMP as related to air handling units and prevention of contamination; standards and comparison of GMP regulatory requirements in different countries.** In: Developments in Surface Contamination and Cleaning. R. Kohli (Editor), Volume 10, Elsevier, Oxford, U.K. 2016, 86-122.
10. **S. Lakshmana Prabu**, T.N.K. Suriya Prakash, R. Thirumurugan. **Medicated nanoparticle for gene delivery.** In: Advanced technology for delivering therapeutics. Sabyasachi Maiti and Kalyar Kumar Sen (Ed.). InTech Publication, Croatia. ISBN 9789535131229, 2017, 13-29.
11. **S. Lakshmana Prabu**, K. Ruckmani. **Biopolymers in gene delivery.** In: Advanced technology for delivering therapeutics. In: Sabyasachi Maiti and Kalyar Kumar Sen (Ed.). InTech Publication, Croatia. ISBN 9789535131229, 2017, 137-158.
12. **S. Lakshmana Prabu**, T.N.K. Suriya Prakash, R. Thirumurugan. **Intellectual Property Rights.** In: Intellectual Property Rights. S. Lakshmana Prabu, T.N.K. Suriya Prakash Editors. InTech Publication, Croatia. ISBN 9789535132820, 2017, 3-22.
13. A. Umamaheswari, **S. Lakshmana Prabu**, M. Rengasamy, G. Venkatesan. **A Safety Promotion Approach for Handling of Chemicals in the Working Environmental Management.** In: Handbook of Environmental Materials Management, C. M. Hussain (ed.), Springer International Publishing. 2017; [https://doi.org/10.1007/978-3-319-58538-3\\_66-1](https://doi.org/10.1007/978-3-319-58538-3_66-1).
14. **S. Lakshmana Prabu. Drug Discovery: Current State and Future Prospects.** In: Computer application in Drug discovery and Development. A. Puratchikody, S. Lakshmana Prabu, A. Umamaheswari (Eds.), IGI Global, USA. 2019; 1-46.

15. **S. Lakshmana Prabu**, R. Thirumurugan. **Lead optimization in drug discovery**. In: Computer application in Drug discovery and Development. A. Puratchikody, S. Lakshmana Prabu, A. Umamaheswari (Eds.), IGI Global, USA. 2019; 62-79.
16. S. Vaidevi, M. Azeera, K. Ruckmani, **S. Lakshmana Prabu**. **Modified biopolymers and its potential significance in targeted drug delivery and disease diagnosis**. In: Advances in polymers in Biomedical Applications, Pathania D and Gupta B (Eds)., Nova Science Publishers, NY, USA, 2018: pp 143-170.
17. **S. Lakshmana Prabu**, T.N.K. Suriyaprakash. **Introductory Chapter : Drafting of Patent Specification**. In: Intellectual Property Rights- Patents, InTech Publication, Croatia. 2020, pp. 3-11.
18. A. Umamaheswari, **S. Lakshmana Prabu**, A. Puratchikody. **Near-Infrared Spectroscopic techniques and its analytical application in Pharmaceutical Industries**. In: Advances in Chemistry Research. Nova Science Publishers, NY, USA. 2020; pp. 195-236.
19. **S. Lakshmana Prabu**, A. Umamaheswari, A. Puratchikody. **Bioremediation approaches for degradation of textile dye effluents. Bioremediation and Green Technologies**. In: Sustainable Approaches to Mitigate Environmental Impacts. Springer International Publishing. 2021; pp. 113-133.
20. A. Umamaheswari, M. Vijayalakshmi, M. Dhivya Sree, **S. Lakshmana Prabu**, A.Puratchikody. **Cogent and Strategic Approaches for Gene Delivery with Nanostructures**. In: The Science of Nanomaterials: Basics and Applications". Suresh C. Ameta & Rakshit Ameta (Eds.), Apple Academic Press, Inc. Co-published with CRC Press (Taylor & Francis), 2022; pp. 91-121.
21. S. Lakshmana Prabu, TNK. Suriyaprakash. **Introductory Chapter: Acquisition of Intellectual Property Rights in International Markets – Where do we start?**. In: Intellectual Property. S. Lakshmana Prabu, T.N.K. Suriyaprakash Editors. InTech Publication, Croatia, 2022; pp. 3-8.
22. **S Lakshmana Prabu**, R. Thirumurugan. M. Rengasway, G. Venkatesan,. **Remediation approaches for the degradation of textile dye effluents as sustaining Environment**. In: Sustainability studies: Environmental and Energy Management. Bentham Science Publishers Pte. Ltd, Singapore, 2022, pp. 74-103.
23. A. Umamaheswari, M. Vijayalakshmi, A. Prabitha Priyadarshini, C. Dinesh Kumar, Kamal Dua, **S. Lakshmana Prabu**. **Drug delivery systems in Krabbe Disease: Present and prospective approaches**. In: Drug Delivery Systems for Metabolic Disorders. Harish Dureja, Narasimha Murthy, Peter Wich, Kamal Dua (Edrs). Academic Press is an imprint of Elsevier. 2022; pp. 317-336.
24. **S. Lakshmana Prabu**, N.Nishitha, A. Umamaheswari, M. Vijayalakshmi. **Advanced Treatment Strategies to combat Tay - Sachs disease (TSD)**. In: Drug Delivery Systems for Metabolic Disorders. Harish Dureja, Narasimha Murthy, Peter Wich, Kamal Dua (Edrs). Academic Press is an imprint of Elsevier. 2022; pp. 337-350.

25. **S. Lakshmana Prabu**, Teenu Sara Josen, A.Puratchikody, A. Umamaheswari. **Sandhoff Disease: Pathology and Advanced Treatment Strategies**. In: Drug Delivery Systems for Metabolic Disorders. Harish Dureja, Narasimha Murthy, Peter Wich, Kamal Dua (Eds.). Academic Press is an imprint of Elsevier. 2022; pp. 351-358.
26. Gum based drug delivery systems. A. Umamaheswari, M. Vijayalakshmi, S. Barath Raj, C. Dinesh Kumar, **S.Lakshmana Prabu**. In: Natural Polymeric Materials based Drug Delivery Systems in Lung Diseases. Harish Dureja, Kamal Dua (Edrs). Springer Nature Singapore Pte Ltd. 2023, pp. 147-166.
27. **S. Lakshmana Prabu**, N. Tamilselvan, S. N. Jegasubramaniam, A. Puratchikody, A.Umamaheswari. Insulin based drug delivery systems. In: Natural Polymeric Materials based Drug Delivery Systems in Lung Diseases. Harish Dureja, Kamal Dua (Edrs). Springer Nature Singapore Pte Ltd. 2023, pp. 259-276.
28. N. Tamilselvan, A. Umamaheswari, **S. Lakshmana Prabu**. Revolutionizing the Major Threat Challenges in Pharmaceutical Industries by Monitoring Heating, Ventilation and Air Conditioning Systems. In: Ilić P, Govedar Z, Pržulj N (eds) Environment. Academy of Sciences and Arts of the Republic of Srpska, Banja Luka, Monograph LV, 2023; 203-241.
29. A. Umamaheswari, S. Lakshmana Prabu. Introductory Chapter: A Fundamental Conception on Copyright and Related Rights. In: Intellectual Property – Global Perspective Advances and Challenges. S. Lakshmana Prabu, A. Umamaheswari (Eds.), InTech, Croatia, 2023; pp. 3-8.
30. A. Prabitha priyadharshini, M. Dhivya Sree, **S. Lakshmana Prabu**, M. Vijayalakshmi. Nutraceuticals for Hypertension Management. In: Nutraceuticals Inspiring the Contemporary Therapy for Lifestyle Diseases. Publisher: CRC Press Taylor & Francis Group, USA. [Accepted for Publication].
31. S. Barath Raj, M. Dhivya Sree, A. Umamaheswari, **S. Lakshmana Prabu**. Nanotechnology and its role in nutraceuticals towards human health. In: Nutraceuticals Inspiring the Contemporary Therapy for Lifestyle Diseases. Publisher: CRC Press Taylor & Francis Group, USA. [Accepted for Publication].
32. A. Umamaheswari, S.N. Jegasubramaniam, N. Tamilselvan, R. Thirumurugan, S. Lakshmana Prabu. Polyphenols as Nutraceuticals of modern life. In: Nutraceuticals Inspiring the Contemporary Therapy for Lifestyle Diseases. Publisher: CRC Press Taylor & Francis Group, USA. [Accepted for Publication].
33. P. Mukesh, M. Rengasamy, G. Venkatesan, **S. Lakshmana Prabu**. Sources and characteristics properties of industrial wastewater in the environment. In: Bioremediation and green technologies. Springer International Publishing. [Accepted for publication].



## 2. International Journals:

### International

1. Ravikumar, Shirwarikar AA, Annie Shirwaikar, Mahalaxmi, **S. Lakshmana Prabu**. Formulation and evaluation of mouth dissolving tablets of Metformin Hydrochloride. International Journal of Pharmaceutical Excipients. 2006; Jul-Sep: 86-92.
2. Vikas Sehgal, Surendra Shetty, Subraya Mogra, Gopalkrishna Bhat, Monty Eipe, Shery Jacob, **S. Lakshmana Prabu**. Evaluation of antimicrobial and physical property of the orthodontic composite resin modified by addition of antimicrobial agents-An in vitro study. American Journal of Orthodontics & Dentofacial orthopedics, 2007; 131 (4): 525-529.
3. **S. Lakshmana Prabu**, Tarunveer Singh, Arun Shirwaikar, C. Dinesh Kumar, Alex Joseph. Compatibility studies between racecadotril and tablet excipients using thermal and non-thermal methods. International Journal of Pharmaceutical Excipients. 2007; Apr-June: 33-38.
4. **S. Lakshmana Prabu**, S. Shnanawaz, Arun Shirwaikar, Ravikumar. Compatibility studies between granisetron hydrochloride and tablet excipients using thermal and non-thermal methods. International Journal of Pharmaceutical Excipients. 2007; Oct-Dec: 97-101.
5. **S. Lakshmana Prabu**, Tarunveer Singh, Alex Joseph, C. Dinesh Kumar, KK. Srinivasan. Stability indicating HPLC determination of racecadotril in bulk and in Capsule formulation. ARS Pharm. 2008; 49(2): 91-100.
6. **S. Lakshmana Prabu**, Arun Shirwaikar, Abraham Jacob, G. Aravind Kumar. Design and evaluation of matrix controlled transdermal patches of diltiazem hydrochloride. ARS Pharm. 2008; 49(3): 211-227.
7. **S. Lakshmana Prabu**, S. Shnanawaz, A. Karthik, C. Dinesh Kumar, SG. Vasantharaju. High performance liquid chromatography method for the quantification of duloxetine hydrochloride in rat plasma. ARS Pharm. 2008; 49(4): 283-292.
8. **S. Lakshmana Prabu**, Arun Shirwaikar, Annie Shirwaikar, G. Aravind Kumar, Abraham Jacob. Formulation and evaluation of chewing gum of diltiazem hydrochloride. International Journal of Pharmaceutical Excipients. 2008; Jan-March: 35-40.
9. C. Dinesh Kumar, Dinesh Yadav, Radheshyan Patidar, PN Sajith Kumar, Richard Lobo, M. Manjunath Shetty, **S. Lakshmana Prabu**, Arun Shirwaikar, Annie Shirwaikar. Morphoanatomical and physico-chemical studies of *Annoma Reticulate* a common substitute for *Annona Squamosa*. Nigerian Journal of Natural Products and Medicine. 2008; 12: 17-23.
10. **S. Lakshmana Prabu**, Tarunveer Singh, Alex Joseph, C. Dinesh Kumar, KK. Srinivasan. High performance thin layer chromatography method for analysis of racecadotril in bulk drug. Journal of Planer Chromatography, 2009; 4: 277-281.

11. **S. Lakshmana Prabu**, Shirwaikar AA, Shirwaikar A, Ravikumar, Aravind Kumar G, Abraham Jacob. Formulation and evaluation of oral sustained release of diltiazem hydrochloride using rosin as matrix forming material. *ARS Pharm.* 2009; 50(1): 32-42.
12. **S. Lakshmana Prabu**, Arun Shirwaikar, Annie Shirwaikar, G. Aravind Kumar. Formulation and evaluation of sustained release microspheres of rosin containing aceclofenac. *ARS Pharm.* 2009; 50(2): 1-12.
13. J. Ashok kumar, Nikhila pullakandam, **S. Lakshmana Prabu**, V. Gopal. Transdermal Drug Delivery system: An overview. *International Journal of Pharmaceutical Sciences Review and Research.* 2010; 3(2): 49-55.
14. **S. Lakshmana Prabu**, T.N.K. Suriya Prakash. Impurities and its importance in Pharmaceutical Industry. *International Journal of Pharmaceutical Sciences Review and Research.* 2010; 3(2): 66-71.
15. **S. Lakshmana Prabu**, S. Thiagarajan, M. Srinivasan, Queeni Marina. Simultaneous estimation of gatifloxacin and ambroxol hydrochloride by UV-Spectrophotometry. *International Journal of Pharmaceutical Sciences Review and Research.* 2010; 3(2): 123-126.
16. **Lakshmana Prabu S**, M. Srinivasan, S. Thiyagarajan, Queeni Marina. Determination of Duloxetine Hydrochloride in Pharmaceutical Formulation by HPLC with UV Detection. *International Journal of ChemTech Research.* 2010; 2(3): 1441-44.
17. Vijayalakshmi M, Periyamayagam K, **Lakshmana Prabu S**. *In vitro* Antilice activity of *Dichrostachys cinerea* (L.) Wight & Arn. *International Journal of PharmTech Research.* 2010; 2(4): 2210-13.
18. **S. Lakshmana Prabu**, P. Selvamani, S. Latha. HPTLC Method for Determination of Granisetron Hydrochloride in the Bulk Drug and in Pharmaceutical Dosage Form. *Latin American Journal of Pharmacy.* 2010; 29(8): 1455-58.
19. **S. Lakshmana Prabu**, TNK. Suriyaprakash. Drafting of Patent Specification. *International Journal of Pharmaceutical Research.* 2010; 1(2): 71-78.
20. **S. Lakshmana Prabu**, TNK. Suriyaprakash. Herbal Cosmeceutical Preparations: A review Part One. *International Journal of Pharmaceutical Research.* 2010; 1(2): 92-98.
21. **Lakshmana Prabu S**, M. Srinivasan, S. Thiyagarajan, Queeni Marina. Simultaneous determination of gatifloxacin and ambroxol hydrochloride in a tablet formulation by liquid chromatography. *Pharmaceutica Analytica Acta.* 2010; 1(2): 110.
22. S. Latha, P. Selvamani, **S. Lakshmana Prabu**, P. Santhosh Kumar, TK. Pal. Formulation and Evaluation of matrix diffusion controlled transdermal patches of domperidone hydrochloride. *ARS Pharm.* 2011; 51(1): 31-36.

23. Suriyaprakash TNK, **Prabu SL**, Satyam T. *In-vitro* studies of diclofenac sodium controlled release dosage forms biopolymeric hydrophilic matrices. ARS Pharm. 2011; 52(2): 20-24.
24. TNK Suriyaprakash, **S. Lakshmana Prabu**, A. Sumathi. Niosomes: A Review. Res Pharmaceutica. 2011; 2(2): 1-11.
25. **S. Lakshmana Prabu**, T.N.K. Suriya Prakash. Herbal Cosmeceutical Preparations: A review Part Two. International Journal of Pharmaceutical Research. 2011; 2(1): 1-5.
26. **S. Lakshmana Prabu**, S. Thiyagarajan, T.N.K. Suriya Prakash. "Development and Validation of a Dissolution Method with UV Analysis for Coumarin Tablets". Acta Pharmaceutica Scientia. 2011; 53: 453-458.
27. T.N.K. Suriya Prakash, S. Parthiban, **S. Lakshmana Prabu**, A. Sumathi. Formulation and evaluation of paclitaxel niosome for its improved anti-cancer activity. Acta Pharmaceutica Scientia. 2011; 53: 469-475.
28. **S. Lakshmana Prabu**, T.N.K. Suriya Prakash, S. Thiyagarajan, M. Amritha, R. Manibharathi, N. Priyadharsini. Design and evaluation of matrix diffusion controlled transdermal patches of dexibuprofen. The Journal of Applied Research, 2012; 12(1): 38-46.
29. **S. Lakshmana Prabu**, T.N.K. Suriya Prakash, A. Shanmugarathinam. Development of Difference Spectrophotometric Method for the Estimation of Leflunomide in Tablet Dosage Form. Chemical Industry and Chemical Engineering Quarterly. 2012; 18(3): 407-410. DOI: 10.2298/CICEQ110804016L.
30. **S. Lakshmana Prabu**, T.N.K. Suriya Prakash. C. Dinesh Kumar, S. Suresh Kumar. "Nutraceuticals and their medical importance". International Journal of Health & Allied Science. 2012; 1(2): 47-53.
31. T.N.K. Suriya Prakash, **S. Lakshmana Prabu**, A. Sumathi. "A comprehensive review on tuberculosis". J Pharma Res. 2012; 44(4): 107-111.
32. **S. Lakshmana Prabu**, S. Thiyagarajan, T.N.K. Suriya Prakash. Design and evaluation of matrix diffusion controlled transdermal patches of coumarin. Current Drug Delivery. 2013; 10: 167-173.
33. **S. Lakshmana Prabu**, S.P. Sharavanan, S. Govindaraju, T.N.K. Suriyaprakash. Formulation Development of Aceclofenac Nanosuspension as an Alternative Approach for Improving Drug Delivery of Poorly Soluble Drugs. International Journal of Pharmaceutical Sciences and Nanotechnology. 2013; 6(3): 2145-2153.
34. **S. Lakshmana Prabu**, S. Thiyagarajan, P. Balan, T.N.K. Suriyaprakash, S.P. Sharavanan. Development and Validation of Stability-indicating RP-HPLC Method for Coumarin Assay in Bulk Drugs and Pharmaceutical Products. International Journal of Pharmaceutical Sciences and Nanotechnology. 2013; 6(3): 2187-2192.

35. T.N.K. Suriyaprakash, **S. Lakshmana Prabu**, A. Arumugarajan, A. Sumathi. Formulation and Evaluation of Oral Controlled Release Clarithromycin Matrix Tablets using Hydrophilic Polymer. *International Journal of Pharmaceutical Sciences and Nanotechnology*. 2013; 6(4): 2255-2259.
36. **S. Lakshmana Prabu**, T.N.K. Suriya Prakash, K. Ruckmani, R. Thirumurugan. Concepts of Process validation in Solid Dosage Form [Tablet] – An Overview. *SAJ Pharmacy and Pharmacology*. 2014; 1(1): 1-12
37. P. Mahalakshmi, T.N.K. Suriya Prakash, **S. Lakshmana Prabu**. Chronomodulated delivery of pantoprazole for Nocturnal Hyperacidity. *International Journal of Pharmaceutical Sciences and Nanotechnology*. 2015; 8(4): 3038-3044. 0974-3278.
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3. S. Jacob, A.A. Shirwaikar, K. K. Srinivasan, J. Alex, **S. L. Prabhu**, R. Mahalaxmi, Ravi kumar. Stability of Proteins in aqueous solution and solid state. *Indian Journal of Pharmaceutical Sciences*. 2006; 68(2): 154-163.
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#### **Patents:**

1. **Aryl Alkyl carboxylic acid salts, process for preparation and dosage forms.** WO2011/001228A1, Dated: 06.01.2011. Chodankar Nandkumar, Biyani Milind, Muthunarayanan Mohan, Radhakrishnan Selvaraju, Santhampillai Sathiskumar, Nadar Rajendran Paul, Sundaramurthy Vivekanandan, **Sakthivel Lakshmana Prabu**.
2. **Aryl Alkyl carboxylic acid salts, process for preparation and dosage forms.** US2011/0144207A1, Dated: 16.06.2011. Nandkumar Chodankar, Milind Biyani, Mohan Muthunarayanan, Selvaraju Radhakrishnan, Sathiskumar Santhampillai, Rajendran Paul Nadar, Vivekanandan Sundaramurthy, **Sakthivel Lakshmana Prabu**.
3. **Aryl alkyl carboxylic acid salts, process for preparation and dosage forms.** EP Patent number : 2323976, Date: 25.05.2011. Nandkumar Chodankar, Milind Biyani, Mohan Muthunarayanan, Selvaraju Radhakrishnan, Sathish Kumar Santhanampillai, Rajendran Paul Nadar, Vivekanandan Sundaramurthy, **Sakthivel Lakshmana Prabu**.
4. **A solid waste barrier liner composition for landfill with clay and microsilica.** Indian Patent Number : 361492, Dated: 23.10.2019. G. Venkatesan, G. Swaminathan, **S. Lakshmana Prabu**.
5. **Pipette with finger operated Plunger. Indian Design Patent Number : 380615-001, Dated: 02.03.2023.** A. Umamaheswari, S. Lakshmana Prabu, M. Rengasamy, N. Jaya, G. Venkatesan

#### **➤ Sponsored Research Projects:**

Sl.No	Name of the project	Funding agency	Project value	Duration	Status

			(Rs.)		
1	Systematic exploration and analysis of Indigenous Nagaland medicinal plant " <i>Clematis nepaulesis</i> "	DBT-NER	67.00 Lakks	3 years (2017-2020)	Completed
2	Green Nanotechnologies: Synthesis of Metal Nanoparticles from <i>Cardiospermum Halicacabum</i> and Establishment of its Anti Rheumatoid Arthritis Potential through Gene Expression Technique	CENTER FOR TECHNOLOGY DEVELOPOMEN T AND TRANSFER, Anna University	Rs.25,000/-	6 months	Completed
3	Green synthesis of silver nanoparticle using leaf extract of <i>Vallaris solanacea</i> and systemic investigation of its anti-rheumatoid arthritis activity	Tamil Nadu State Council for Science and Technology, Chennai	Rs.7500/-	One year	Completed
4	Amalgamation and assessment of cellular bioenergetics in biosynthesized metal nanoparticles using flower extracts of <i>Cassia alata</i> for the management of skin break out and aging	CENTER FOR TECHNOLOGY DEVELOPOMEN T AND TRANSFER, Anna University, Chennai	Rs.25000/-	6 months	Completed
5	Biosynthesis and characterization of ZnO NPS stacked skin	CENTER FOR TECHNOLOGY DEVELOPOMEN	Rs.25000/-	6 months	Completed

	nanogel for the treatment of Rheumatoid Arthritis using <i>Acorus calamus</i> rhizome	T AND TRANSFER, Anna University, Chennai			
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➤ **Consultancy Activities:**

Sl.No	Name of the work	Role (PI/Co PI)	Agency	Amount	Duration

**List of Seminar / Short Term Course /FDP/ Workshop organized:**

1. **Coordinator:** Fourteen days 1<sup>st</sup> Summer School on “Current Developments in Biological, Nano and Pharmaceutical Technology”. Department of Pharmaceutical Technology, Anna University Tiruchirappalli. Date: 05-18<sup>th</sup> April 2010.
2. **Coordinator:** One day “National Level technical symposium”, Department of Pharmaceutical Technology, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli. Date: 20<sup>th</sup> April 2013.
3. **Convener:** Three day “Indo-US collaborative International Conference NanoBio2013”, Department of Pharmaceutical Technology, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli. Date: 27-29<sup>th</sup> June 2013.
4. **Coordinator:** Faculty Development Programme “Current Developments in Life Sciences: An Interdisciplinary Approach” (FDP-2013), Department of Pharmaceutical Technology, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli. 19 to 25<sup>th</sup> August 2013.
5. **Coordinator:** National Level Technical symposium “PANACEA’14” Department of Pharmaceutical Technology, Anna University (BIT Campus), Tiruchirappalli. Date: 25 – 26<sup>th</sup> March 2014.
6. **Coordinator:** Two day workshop “Principles and Applications of Advanced Analytical Instruments”, Department of Pharmaceutical Technology, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli. Date: 01-02<sup>nd</sup> March 2016.
7. **Coordinator:** Two day National Conference “Innovation and Future Directions in Pharmaceutical Product and Process Development (P3D 2016)”, Department of Pharmaceutical

Technology, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli. Date: 09-10<sup>th</sup> September 2016.

8. **Coordinator:** Five day workshop “Principles and Applications of Advanced Analytical Instruments”, Department of Pharmaceutical Technology, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli. Date: 20-24<sup>th</sup> September 2016.
9. **Coordinator:** National Level Technical symposium “PANACEA’17”, Department of Pharmaceutical Technology, Anna University (BIT Campus), Tiruchirappalli. 04-05<sup>th</sup> April 2017.
10. **Coordinator:** One day Technical symposium “Enhancing the Employability Skills and Entrepreneurship Qualities for the Emerging Pharmaceutical Technocrats”, Department of Pharmaceutical Technology, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli. Date: 22<sup>nd</sup> September 2017.
11. **Coordinator:** Two day Seminar “Challenging Perspectives in Pharmaceutical Technology”, Department of Pharmaceutical Technology, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli. Date: 21-22<sup>nd</sup> February 2020.
12. **Coordinator :** One day Expert Lecture on “Cannabis a Wonder Drug”, Department of Pharmaceutical Technology, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli. Date: 25<sup>th</sup> March 2022.

**List of Seminar / Short Term Course /FDP/ Workshop attended:**

1. Board of Research in Nuclear Science sponsored National Workshop on “Radiopharmaceuticals & Radioimmunoassay” organized by Goa College of Pharmacy & Board of Radiation & Isotope technology, Mumbai. Date: 25-28<sup>th</sup> November 1999.
2. Manipal University sponsored “Teaching-Learning Workshop” organized by Department of Medical Education, Kasturba Medical College, Manipal. Date: 4-8<sup>th</sup> August 2003.
3. Manipal University sponsored “Student Evaluation workshop” organized by Department of Medical Education, Kasturba Medical College, Manipal. Date: 27-30<sup>th</sup> October 2003.
4. Participated and presented a research article in 55<sup>th</sup> Indian Pharmaceutical Congress, Sri Ramachandra Medical College and Research Institute. Date: 19-21<sup>st</sup> December 2003.

5. Indian Society for Technical Education sponsored short term training program on “Recent Advances in Pharmaceutical and Biotechnological Products”, organized by Manipal College of Pharmaceutical Science, Manipal. Date: 3-15<sup>th</sup> May 2004.
6. AICTE sponsored one day seminar on “Environment protection and pollution control awareness” organized by Manipal College of Pharmaceutical Science, Manipal. Date: 16<sup>th</sup> August 2004.
7. AICTE sponsored three days seminar on “Intellectual Property for Drugs and Pharmaceuticals” organized by Manipal College of Pharmaceutical Science, Manipal. Date: 9-11<sup>th</sup> September 2004.
8. AICTE sponsored two day National seminar on “Herbal medicines in the new millennium prospects and challenges” organized by Manipal College of Pharmaceutical Science, Manipal. Date: 4-5<sup>th</sup> February 2005.
9. AICTE sponsored two week seminar on “New concepts, methods and technology in pharmaceutical education and research” organized by Manipal College of Pharmaceutical Science, Manipal. Date: 22<sup>nd</sup> – 3<sup>rd</sup> September 2005.
10. AICTE sponsored National workshop on “Clinical research regulatory affairs – An update” organized by Manipal College of Pharmaceutical Science, Manipal. Date: 19<sup>th</sup> September -1<sup>st</sup> October 2005.
11. Participated and presented a research article entitled “Preparation and evaluation of rosin microcapsules by solvent evaporation technique” in International E-Symposium on Pharmaceutical Engineering-AN insight into the Latest developments organized by Department of Pharmaceutical Engineering and Technology, Bharathidasan University, Tiruchirappalli. Date: 3<sup>rd</sup> March 2006.
12. DST sponsored National School on “New Dimension to NMR from molecules to Human behavior” organized by NMR Research Centre, IISc, Bangalore and Manipal College of Pharmaceutical Science, Manipal. Date: 22<sup>nd</sup> May – 02<sup>nd</sup> June 2006.
13. Manipal Academy of Higher Education sponsored two day workshop on “Research methodology and Biostatics” organized by Department of Statistics, MAHE, Manipal. Date: 22<sup>nd</sup>-23<sup>rd</sup> September 2006.

14. AICTE sponsored two weeks staff development programme on “Technological advances in Cosmeceuticals, Nutraceuticals, Biopharmaceuticals and Herbal Drugs” organized by Manipal College of Pharmaceutical Science, Manipal. Date: 5-18<sup>th</sup> February 2007.
15. Participated and presented a research article in Second International Conference and Indo-canadian satellite symposium on Pharmaceutical sciences, Technology, Practice and Natural Health Products” organized by JSS College of Pharmacy, Ooty. Date: 24-26<sup>th</sup> February 2007.
16. AICTE sponsored Quality Improvement programme on “Challenges and opportunities in Pharmaceutical Research” organized by Manipal College of Pharmaceutical Science, Manipal. Date: 12-24<sup>th</sup> November 2007.
17. Participated and presented a research article in 59<sup>th</sup> Indian Pharmaceutical Congress, Banaras Hindu University, Varanasi. Date: 20-22<sup>nd</sup> December 2007.
18. AICTE sponsored three days seminar on “Scientific writing in research journals” organized by Department of Pharmacy Management, Manipal College of Pharmaceutical Science, Manipal. Date: 28-30<sup>th</sup> April 2008.
19. Attended UGC sponsored 77<sup>th</sup> Orientation Programme at UGC- Academic Staff College, Bharathidasan University, Tiruchirappalli. Date: 15<sup>th</sup> November – 12<sup>th</sup> December 2012.
20. Indian Society for Technical Education sponsored National workshop on “Effective Teaching & Learning Pedagogy”, held at KTDC Chaitram Hotel, Trivandrum. Date: 5-7<sup>th</sup> February 2014.
21. NBA sponsored workshop on “Training of Evaluators/Resource persons on outcome based accreditation” organized by Bannari Amman Institute of Technology, Sathyamangalam. Date: 5<sup>th</sup> March 20014 (Phase I) and 14-16<sup>th</sup> March 20014 (Phase II).
22. DST sponsored workshop on “Sophisticated spectroscopic instruments” held by Department of Pharmaceutical Technology, BIT Campus, Anna University, Tiruchirappalli. Date: 8-10<sup>th</sup> May 2014.
23. Department of Biotechnology sponsored short term training course on “Molecular endocrine techniques” organized by Department of Endocrinology, Dr. ALM PG Institute of basic Medical Sciences, University of Madras. Date: 19<sup>th</sup> January – 5<sup>th</sup> February 2015.
24. TEQIP-II sponsored Faculty Development Programme on “Advances in Nanotechnology and Analytical Instrumentation in Health Sciences” organized by Department of Pharmaceutical Technology, BIT Campus, Anna University, Tiruchirappalli. Date: 24<sup>th</sup> June – 7<sup>th</sup> July 2016.



25. One day workshop on “Advances in Rheology”, Department of Pharmaceutical Technology, BIT Campus, Anna University, Tiruchirappalli. Date: 08<sup>th</sup> August 2016.
26. Ministry of AYUSH sponsored one day workshop on “General awareness and propagation of Extra Mural Research Scheme” organized by Siddha Regional Research Institute, Puducherry. Date: 21<sup>st</sup> April 2017.
27. National Seminar on “Recent Advances in Antiviral Drug Design against Emerging and Re-Emerging Viral Diseases”, Kalasalingam University, Tamil Nadu. Date: 24-25<sup>th</sup> October, 2017.
28. One day workshop on “Asana and breathing exercise”, Department of Physical Education, BIT Campus, Anna University, Tiruchirappalli. Date: 07<sup>th</sup> February 2018.
29. One day preconference workshop on “NANO TECHNOLOGY”, Cherraan’s College of Pharmacy, Coimbatore. Date: 1<sup>st</sup> June 2018.
30. National Seminar on “Recent advances in Antiviral Drug design, Discovery and Development, Cherraan’s College of Pharmacy, Coimbatore. Date: 08-19<sup>th</sup> June 2018.
31. Online NPTEL-AICTE Certification Faculty Development Programme on “Intellectual Property Rights” from July – Oct 2018.
32. “Intellectual Property Rights & Entrepreneurship”, Entrepreneurship Development and Innovation Institute, PMO-IEDP (Programme Monitoring Office – Innovation & Entrepreneurship Development Programme), BIT Campus, Anna University, Tiruchirappalli, 22-23<sup>rd</sup> November 2019.
33. Online NPTEL-AICTE Certification Faculty Development Programme on “NBA Accreditation and Teaching – Learning in Engineering (NATE)” from Jan- April 2020.
34. Online Two week FDP programme on “MULTIOMICS AND TRADITIONAL APPROACHES TO COMBAT COVID-19/ VIRUS OUTBREAK” Organized by School of Life Sciences, B.S. Abdur Rahman Crescent Institute of Science & Technology, Vandalur, Chennai, 21<sup>st</sup> May – 3<sup>rd</sup> June 2020.
35. Industrial Training on “Communication and Networking Technologies”, Bharat Sanchar Nigam Limited, Chennai, 14.07.2020-03.08.2020.
36. Online NPTEL-AICTE Certification Faculty Development Programme on “Health Research Fundamentals” from Jan – March 2021.

37. Online NPTEL-AICTE Certification Faculty Development Programme on “Introduction to Professional Scientific Communication” from 24 Jan 2022- 18 Feb 2022.
38. Online NPTEL-AICTE Certification Faculty Development Programme on “Effective Engineering “Teaching” in Practice. Jan – February 2022.
39. Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education (AICTE) from 31 st January, 2022 to 4 th February, 2022.
40. Online NPTEL-AICTE Certification Faculty Development Programme on “Patent Drafting for Beginners” from Jan to Feb 2023.
41. Seven Days International Online Faculty Development Programme (FDP) on “MICROSCOPY – AN OVERVIEW (Phase II)”, Department of Microbiology, Sacred Heart College (Autonomous), Tirupattur, Tamil Nadu, India in association with Biotechnology Society of Nepal (BSN) and Laboratory of Chemical and Biological Analysis (LAQB), Western Rio Janeiro State University (UEZO), Rio de Janeiro, Brazil from 24th May 2023 – 31st May 2023.
42. Four-week Faculty Induction/Orientation Programme for “Faculty in Universities / Colleges / Institutes of Higher Education” organized by Teaching Learning Centre Ramanujan College, University of Delhi In collaboration with Army Institute of Education (AIE) Affiliated to Guru Gobind Singh Indraprastha University, Delhi from 23<sup>rd</sup> April to 22<sup>nd</sup> May 2023.
43. Seven Days International Online Faculty Development Programme (FDP) on “MICROSCOPY – AN OVERVIEW (Phase II)”, Department of Microbiology, Sacred Heart College (Autonomous), Tirupattur, Tamil Nadu, India in association with Biotechnology Society of Nepal (BSN) and Laboratory of Chemical and Biological Analysis (LAQB), Western Rio Janeiro State University (UEZO), Rio de Janeiro, Brazil from 24<sup>th</sup> May 2023 – 31<sup>st</sup> May 2023.

**National / International Conferences organized / Participated:**

**Webinars**

1. Webinar on “Funding opportunities in Biotechnology” organized by PG and Research Department of Biotechnology and Bioinformatics Holy Cross College, Tiruchirappalli, 27.06.2020
2. Webinar on “Phytopharmaceuticals as a drug in India: Regulations and Pharmacopoeial Standards” organized by Senghundhar College of Pharmacy, Namakkal, 07.07.2020.

3. Webinar on “Technologies and strategies of preparative chromatography for peptides” organized by Phenomenex, India, 24.06.2020
4. Webinar on “Nanotechnology and its industrial application” organized by Department of Mechanical Engineering, Mookambigai College of Engineering, Kalamavur, 20.06.2020
5. Webinar on “Recent advances in antiviral drug design and development against COVID 2019/SARs-2, Department of Pharmacy Practice, Nehru College of Pharmacy, Thrissur, Kerala, 19<sup>th</sup> June 2021.
6. Virtual workshop on “Biological inspired nanomaterials” organized by Department of Biotechnology, School of Bio and Chemical Engineering, Kalasalingam Academy of Research and Education, Krishnankoil, 30.06.2020.
7. Webinar on “Recent advances in antiviral drug discovery and Development” organized by KVSR Siddhartha College of Pharmaceutical Sciences, Andhra Pradesh, 09.07.2020.
8. Webinar on “Digital marketing in Pharmaceutical Scenario” organized by CARE institution innovation council and Chettinad School of Pharmaceutical Sciences, Chettinad Academy of Research and Education, 16.05.2020.
9. Webinar on “Immunomodulation in COVID-19” organized by CARE institution innovation council and Chettinad School of Pharmaceutical Sciences, Chettinad Academy of Research and Education, 14.05.2020.
10. Webinar on ““COVID-19-Role of public health scientist :From Clinical samples to Sequencing”, organized by Department of Pharmaceutical Technology, University College of Engineering, BIT Campus, Anna University, Tiruchirappalli – 15.07.2020.
11. Webinar on GC/MS/MS Technique and its application organized by Interdisciplinary Institute of Indian System of Medicine (IISM) SRM Institute of Science and Technology (SRMIST) Kattankulathur - 603 203 In Association with: Bsquare Instruments Pvt. Ltd., Chennai 8.07.2020.
12. Webinar on “HPTLC and Botanical origin material analysis” organized by Anchrom Enterprises (I) Pvt Ltd., on 15<sup>th</sup> May 2020
13. Webinar on “HPTLC mentioned development, Trick or Treat? – Learn, Relax and Stress out-Tech Model” Organized by Sri Ramachandra Faculty of Pharmacy, Sri Ramachandra Institute of Higher Education and Research in association with Anchrom Enterprises (I) PVT ltd, 8.06.2021

14. Webinar on “International webinar: Impurity profiling of pharmaceuticals” organized JSS College of Pharmacy, Ooty, 30.06.2020.
15. Webinar on “A Recent Insight on Intellectual Property Rights in India, USA and Europe”. Organized by Department of Pharmaceutical Technology, University College of Engineering, BIT Campus, Anna University, Tiruchirappalli 06.07.2020
16. Webinar on “Application of bioinformatics in drug discovery” organized by Faculty of Engineering, Department of Biotechnology, Karpagam Academy of Higher Education, Coimbatore, 3.07.2020
17. Webinar on “Materials Science and Design principles of therapeutic growth factors delivery systems for tissue engineering and regenerative medicine”, organized by Department of Pharmaceutical Biotechnology, JSS College of Pharmacy, Ooty, 23.07.2021

➤ **Professional recognitions:** (details like chairperson/member of a committee, reviewer, editor ...etc)

**(A) Chairperson for conferences / Seminar / Technical symposia:**

1. **Chair Person:** “Opportunities and Challenges in the development of multi-particulate modified release tables as life extension options in drug delivery” in “National Conference on Recent Trends and applications of Nanotechnology in Pharmacy and Biology” dated: 21-22<sup>nd</sup> Jan-2010.
2. **Evaluator** for the poster presentation session of the DST and DBT sponsored 5<sup>th</sup> Annual International Convention of Association of Pharmacy Professionals held in the Department of Pharmaceutical Technology, Anna University (BIT Campus), Tiruchirappalli during 22-23<sup>rd</sup> January 2016.
3. **Evaluator** for the poster presentation session of the Recent Advances in Antiviral Drug Design against Emerging and Re- Emerging Viral Diseases, Kalasalingam University, Tamil Nadu. Dated: 24-25<sup>th</sup> October, 2017.
4. **Evaluator** for the poster presentation session of the National Seminar on “Recent advances in Antiviral Drug design, Discovery and Development, Cherran’s College of Pharmacy, Coimbatore. Date: 08-19<sup>th</sup> June 2018.
5. **Evaluator** for the Oral and Poster Presentation in the two day National Conference on “Big Data and Machine Learning in Biomedical and Health Informatics: Contemporary uses and Prospective challenges”, Department of Biotechnology, Faculty of Engineering, Karpagam Academy of Higher Education, Coimbatore, 12-13<sup>th</sup> September 2019.
6. **Chair Person-** International Conference on “Recent Advances in Herbal Drug Standardization”, Aravindh Herbal Labs (P) Ltd., Rajapalayam, 14-15<sup>th</sup> December 2019.

**(B) Guest lectures delivered:**

1. On the title entitled “**Cleaning validation and its importance**”. In: 1<sup>st</sup> Summer School on “Current Developments in Biological, Nano & Pharmaceutical Technology”. Anna University of Technology, Tiruchriappalli. Date:05 to 18<sup>th</sup> April 2010.
2. On the title entitled “**High Performance Liquid Chromatography**”. In: One day workshop on “Troubleshooting HPLC Techniques HPLC-2011”. Anna University of Technology, Tiruchriappalli. Date: 10<sup>th</sup> September 2011.
3. On the title entitled “**Intellectual Property Rights**”. In: Hands on training program on “Biopharmaceutical Approaches in Plant based drug discovery (PHYTODRUGS-2012). Department of Biotechnology, Anna University, Tiruchirappalli. Date: 02.05.2012-16.05.2012.
4. On the title entitled “**Quality control of Solid dosage form (Tablets)**”. In: FDP on “Current Developments in Life Sciences: An Interdisciplinary Approach (FDP-2013). Department of Pharmaceutical Technology, Anna University, Tiruchirappalli. Date: 19 to 25<sup>th</sup> August 2013.
5. On the title entitled “**Application of Computer in Pharmaceutical Sciences**”. In: FDP on “Paradigm’s of Computing”. Department of Computer Science, Anna University, Tiruchirappalli. Date: 2 to 8<sup>th</sup> December 2013.
6. On the title entitled “**Nanotechnology in Drug Delivery**”. In: National Seminar on “Application of Bioactive compounds and Nanoparticles in Cancer Prevention”. Mother Theresa University, Kodaikanal. Date: 17<sup>th</sup> July 2014.
7. On the title entitled “**Process Validation**”. In: Two day seminar on “Review on Process validation and Nanotechnology in Drug delivery”. Al Shifa College of Pharmacy, Perinthalmanna, Kerala Date: 12<sup>th</sup> November 2014.
8. On the title entitled “**Nanotechnology in Drug Delivery**”. In: Two day seminar on “Review on Process validation and Nanotechnology in Drug delivery”. Al Shifa College of Pharmacy, Perinthalmanna, Kerala. Date: 13<sup>th</sup> November 2014.
9. On the title entitled “**UPLC and its application in pharmacy**”. In: Hands on training Workshop, “Principles and Applications of Advanced Analytical Instruments”, BIT Campus, Anna University, Tiruchirappalli. Dated: 21<sup>st</sup> September 2016.
10. On the title entitled “**UV and its application in pharmacy**”. In: Hands on training Workshop, “Principles and Applications of Advanced Analytical Instruments”, BIT Campus, Anna University, Tiruchirappalli. Date: 21<sup>st</sup> September 2016.
11. On the title entitled “**Wastewater treatment techniques**”. In: Department of Environmental management, School of Environmental Sciences, Bharathidasan University, Tiruchirappalli. Date: 22<sup>nd</sup> March 2017.

12. On the title entitled “**Nanotechnology in Anticancer treatments**”. In: the National Seminar on “Recent Advances in Antiviral Drug Design against Emerging and Re-Emerging Viral Diseases”, Kalasalingam University, Tamil Nadu. Date: 24-25<sup>th</sup> October, 2017.
13. On the title entitled “**Recent trends on Nano Technology**”. In: One day preconference workshop on “NANO TECHNOLOGY”, Cherraan’s College of Pharmacy, Coimbatore. Date: 1<sup>st</sup> June 2018.
14. On the title entitled “**Nanoparticle preparation techniques in cancer therapy**”. In: National Seminar on “Recent advances in Antiviral Drug design, Discovery and Development, Cherraan’s College of Pharmacy, Coimbatore. Date: 08-19<sup>th</sup> June 2018.
15. On the title entitled “**Hybrid treatment techniques for industrial waste water streams**”, Department of Environmental Science and Management, Bharathidasan University, Tiruchirappalli. 27<sup>th</sup> February 2019.
16. On the title entitled “**Herbal Standardization**” Department of Botany, Kohima Science College, Jotsoma, Nagaland, 11.06.2019.
17. On the title entitled “Fingerprint profile and Hyphenated Techniques in Herbal Standardization” International Conference on “Recent Advances in Herbal Drug Standardization”, Aravindh Herbal Labs (P) Ltd., Rajapalayam, 14-15<sup>th</sup> December 2019.
18. On the title entitled “Nanotechnology as delivery device in Herbal Formulation”, In: One day AVRS National Webinar Program on Role of nanoparticles in Phytosome/Phytomedicine, organized by Jainee College of Pharmacy, Dindigul in association with Anti Viral Research Society, during 17<sup>th</sup> July 2021.
19. On the title entitled “Nanomedicine as Drug delivery tool”. In: CSIR sponsored virtual two day national level seminar on Ophthalmic Drug delivery: Current Innovations and Future Challenges, Nehru Institute of Technology, Coimbatore, during 23-24<sup>th</sup> February 2022.
20. On the title entitled “Herbal Standardization : Establishment of herbal products therapeutic effects”. In: One week Profession Development Programme – 2022 PDP 2022, PG & Research, Department of Biochemistry. Rabiammal Ahamed Maideen College for Women, Thiruvavarur, Date: 11.07.2022.
21. On the title entitled “Nanotechnology: Cogent and Strategic Approaches in Drug Delivery”. In: One week Profession Development Programme – 2022 PDP 2022, PG & Research, Department of Biochemistry. Rabiammal Ahamed Maideen College for Women, Thiruvavarur, Date: 11.07.2022.

## **Reviewer**

1. Accreditation and Quality Assurance
2. Scientific reports (Springer)

3. Qeios
4. BMC Complementary and Alternative Medicine
5. Bioequivalence and Bioavailability International Journal
6. Analytical Chemistry Letters
7. Indian Journal of Pharmaceutical Sciences