

Department of Pharmaceutical Technology,
University College of Engineering – BIT Campus,
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OBJECTIVE

To acquire a position that utilizes my passion for superior community service in conjunction with my expertise in the field of pharmacy.

ACHIEVEMENTS

Google Scholar Citation – 2272

h index – 23 & i10 - index - 50

- **Patents** : 7 Nos.
- **Books/Book Chapter**: 41 Nos.
- Studied M. Pharmacy with Central Government Scholarship.
- Published papers in International and National Journal: 125 Nos.
- **NPTEL**- Faculty Advanced Domain Scholar
- **NITTTR** – Completed 8 module course
- PhD Guided : 1 No & Pursuing 3 Nos.
- Project Guided : 60 Nos.
- Presented papers in International and National Conferences: 100 Nos.
- **Journal Reviewer** : 1. Bioequivalence and Bioavailability International Journal
2. BMC Complementary and Alternative Medicine
3. Analytical Chemistry Letters
4. Scientific Reports
5. Springer Nature
- **Editorial Board Member** : 1. Bioequivalence and Bioavailability International Journal
2. Asian Journal of Pharmaceutical and Health sciences
3. Asian Journal of Biological and Life Sciences

ACADEMIC QUALIFICATION

Degree	Subject(s)	University	Period of Study	Division
Ph. D	Pharmaceutical Sciences	Manipal University	June 2003 – September 2007	-
M. Pharm	Pharmaceutical Quality Assurance	Goa University	August 1998 – May 2000	First with Distinction
PGDIPRL	Intellectual Property Rights Law	National Law School of India University	August 2005 – June 2006	B ⁺
DL101	Introduction to Intellectual Property Rights Law	WIPO, Geneva	March - April 2005	
B. Pharm	Pharmaceutical Sciences	The Tamil Nadu Dr. M.G.R Medical	October 1993- October 1997	First

		University, Chennai, Tamil Nadu		
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Doctoral Research : *Studies on Rosin and its product application in Pharmaceutical Sciences.*

Mentor : Dr. A. Arun Shirwaikar

Post Graduate Diploma in Intellectual Property Law Project

Title: *Procedure for obtaining Patents.* Mentor: **Dr. T. Ramakrishna**, NLSIU, Bangalore.

M. Pharm (Pharmaceutical Quality Assurance)

Title: *Development and validation of RP-HPLC method for analysis of Nimesulide and Lansoprazole and their solid dosage form.* Mentor : **Prof. M.G. Pai.**

Honors and Fellowships

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.

PROFESSIONAL EXPERIENCE

University College of Engineering BIT Campus
Anna University, Tiruchirappalli

From September 2009 to till date

Responsibility in Home Institution

- Assistant to Director – Research, Anna University of Technology –Tiruchirappalli From 1st Jan 2012 to 31st July 2012.
- Coordinator for Placement & Training for Department of Pharm. Tech. From Jul 2010 to August 2012.
- Approved Ph.D. guide for Pharmaceutical Technology, in Anna University - Tiruchirappalli.
- Deputy Warden, Men's Hostel, BIT Campus, Anna University, Tiruchirappalli, From Sep-2012 to July 2014.
- Advisory Board member for student's co-operative society, BIT Campus, Anna University, Tiruchirappalli.

Subjects Handled

- Validation in Pharmaceutical Industries
- IPR for Pharma Industry
- Fundamental of Nanoscience
- Process Instrumentation
- Drug Dosage Form and Formulation Development
- Nanotechnology
- Total Quality Management & Industrial Management
- Mass Transfer Operation Theory and Laboratory
- Fluid Flow operation Theory and Laboratory
- Chemical Reaction Engineering Laboratory
- Chemical Engineering Thermodynamics
- Environmental Science in Engineering
- Microbiology Theory and Laboratory
- Instrumental Methods of Analysis theory and Laboratory

- Bioprocess Engineering

***Shasun Chemicals and Drugs Ltd.
Pondicherry,***

June 2008 – August 2009

Asst. Manager in Formulation Development

- Co-ordination with Analytical Method Development, Regulatory Affairs, Production planning, Quality control and Manufacturing Departments.
- Preparation of stability protocols and monitoring the same as per ICH guidelines.
- Preparation of drug and excipient compatibility protocol and its execution.
- Review and approval of master documents and raw material specifications.
- Regarding technical information and documentation for Test License, and Manufacturing license application.
- Review and technical support for regulatory documentation
- Review and approval of literature search summary.
- Interpretation and feasibility reports for development of generic products.
- Interpretation of patents and development of non-infringing formulae for filings.
- Development of generic products for ANDA submissions.
- Execution of developmental trials based on data interpretation in consultation with superiors.
- In house seminars, presenting seminars related to projects.
- Technology transfer of three solid oral products to manufacturing location.
- Execution of process validation and scale up batches.
- Patent drafting.

Equipments handled

In addition to conventionally used machines for solid oral dosage forms experience on using

- Glatt Fluid Bed processor
- Buchi Mini Spray Drier B 191
- Roll Compactor

***Manipal College of Pharmaceutical Sciences,
Manipal University, Manipal.***

November 2002 – May 2008

Position held: Lecturer and Assistant Professor in Dept. of Pharm. Quality Assurance

Subjects Handled

- Pharmaceutical Technology
- Pharmaceutical Analysis & Product Development (PG).
- Quality Assurance & Management and (PG)
- Pharmaceutical Validation (PG)
- Intellectual Property Rights Law (PG)
- Pharmaceutical analysis; Instrumental & Biomedical Analysis

Research Experience

- Preparation of sustained release matrix tablets.
- Formulation and evaluation of sustained release micro spheres.
- Formulation and development of transdermal drug delivery system by using natural polymer in anti rheumatoid and antihypertensive drugs.
- Preparation and evaluation of new cream base for topical formulation.
- Preparation of chewing gum using natural polymer and gluten.
- Formulation and evaluation of pharmaceutical tablets and capsules.
- Analytical Method development and validation for various active pharmaceutical ingredients by HPLC, HPTLC and UV.

Others

- BOS member for Post Graduate [Pharmaceutical Quality Assurance]

Responsibilities

- **In-charge and operational handling:** Pharmaceutical Quality Assurance Laboratory equipments HPLC, HPTLC, UV, FTIR, DSC and IPQC equipments.

Ranbaxy Laboratories Ltd., Goa

June 2000 – October - 2002

Position held: Quality Assurance Supervisor

RESPONSIBILITIES

- Analytical Method validation
- Process Validation of Tablets
- Annual Product Review of Tablets/Ointments/Creams
- Report checking and Documentation of Finished product, In-process & Raw material.
- Analysis of Finished products/In process stage formulation and raw material.
- GLP activities including Calibration, working standard profile.
- To coordinate with subordinate staff to achieve the above objective.

Expertise in the following equipment

- HPLC (Jasco, Shimadzu and Waters) and HPTLC
- UV-Visible spectroscopy (Model : Shimadzu 1601)
- IR (Model : Shimadzu 1801)
- DSC (Make : Shimadzu)
- Spectrofluorimeter (Model No. RF-5301 PC)

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.** Design Patent No: 380615-001, Date: 02.03.2023. A. Umamaheswari, **S. Lakshmana Prabu**, M. Rengasamy, N. Jeya, G. Venkatesan.
6. **Twin Holder Burette Stand.** Design Patent No: 419052-001, Date: 05.06.2024. **S.Lakshmana Prabu**, A. Umamaheswari, A. Purathikody, M. Vijayalakshmi.
7. **Dual Nasal Inhaler.** Design Patent No: 431454-001, Dated: 06.12.2024. **S.Lakshmana Prabu**, A. Umamaheswari, A. Purathikody, M. Vijayalakshmi.

BOOK CHAPTER

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.
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 Priyadharshini, 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 (Eds.), 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 (Eds.), 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. A. Umamaheswari, M. Vijayalakshmi, S. Barath Raj, C. Dinesh Kumar, **S. Lakshmana Prabu. Gum based drug delivery systems.** In: Natural Polymeric Materials based Drug Delivery Systems in Lung Diseases. Harish Dureja, Kamal Dua (Eds.), 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 (Eds.), 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. 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. 2024.
 30. 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, 2024.

31. 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, 2024.
32. S. Surendhar, S. Meganathan, **S. Lakshmana Prabu**, R. Thirumurugan. **Exploring the Medicinal Marvels of a Botanical Wonder: *Cassia auriculata*.** In: Proceedings of the 1st International Conference on Recent Advancements in Materials Science and Technology, Volume I. P. Sakthivel, M. Ramalinga Viswanathan, K. Ravichandran (Eds.). Springer Nature Switzerland AG, Gewerbestrasse 11, 6330 Cham, Switzerland. 2024; pp. 213-226.
33. R. Thirumurugan, A. Umamaheswari, A. Puratchikody, **S. Lakshmana Prabu**, Dinesh Kumar Chellappan. **Strategies to evaluate the quality of herbal products with special emphasis on toxicity, chemical profiling and pharmacokinetics.** Publisher: CRC Press Taylor & Francis Group, USA. [Accepted for Publication]
34. A. Umamaheswari, A. Puratchikody, **S. Lakshmana Prabu**, R. Thirumurugan. **Advanced strategy and future perspectives in drug delivery system.** In: Dosage Forms - Emerging Trends and Prospective Drug-Delivery Systems. S. Lakshmana Prabu, A. Umamaheswari (Eds.), InTech, Croatia. [Accepted for publication].
35. A. Umamaheswari, **S. Lakshmana Prabu.** Innovations in Drug Delivery: Exploring Emerging Trends and Future Directions. In: Dosage Forms - Emerging Trends and Prospective Drug-Delivery Systems. S. Lakshmana Prabu, A. Umamaheswari (Eds.), InTech, Croatia. [Accepted for publication].
36. S. Surender, S. Meganathan, **S. Lakshmana Prabu**, R. Thirumurugan. Classification and Biosynthesis of Terpenes in Nature includes Structural diversity, biosynthesis of Terpenes and Pathways leading to different terpene types. In: **Plant Secondary metabolites- Terpenes type and functions.** Mala Trivedi, **S.Lakshmana Prabu**, R. Thirumurugan (Eds.). **Bentham Publishers.** [Accepted for publication].
37. R. Thirumurugan, S. Meganathan, S. Surender, A. Umamaheswari, **S. Lakshmana Prabu.** Terpenes in Drug Development: Future Therapeutic Applications. In: **Plant Secondary metabolites- Terpenes type and functions.** Mala Trivedi, **S.Lakshmana Prabu**, R. Thirumurugan (Eds.). **Bentham Publishers.** [Accepted for publication].
38. P. Mukesh, M. Rengasamy, G. Venkatesan, **S. Lakshmana Prabu.** Environmental sustainability and green technology: A new Approach. In: Sustainable Green Technologies: Bioremediation of Environmental Pollution. Springer International Publishing. [Accepted for publication].
39. R. Thirumurugan, S. Meganathan, A. Umamaheswari, **S. Lakshmana Prabu.** Emerging Bioremediation approaches for sustainable environmental protection. In: Sustainable Green Technologies: Bioremediation of Environmental Pollution. Springer International Publishing. [Accepted for publication].
40. K. Geetha, A. Puratchikody, **S. Lakshmana Prabu**, A. Umamaheswari. The Role of Microorganisms in Remediation of Environmental Pollutants. In: Sustainable Green Technologies: Bioremediation of Environmental Pollution. Springer International Publishing. [Accepted for publication].
41. **S. Lakshmana Prabu**, M. Vijayalakshmi, S.Meganathan, S. Surendhar, A. Umamaheswari, A. Puratchikody. Synthetic polymers for drug Delivery Systems in Inflammatory Diseases. In: Synthetic Polymeric Materials based Drug Delivery Systems for Inflammatory Disease.

Vimal Arora, Harish Dureja, Kamal Dua (Eds.). Taylor & Francis Group, LLC.
[Accepted for publication].

BOOK AUTHOR

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

BOOK EDITOR

1. Intellectual Property Rights. **S. Lakshmana Prabu**, T.N.K. Suriya Prakash Editors. InTech Open, Croatia. 2017. ISBN 9789535132820.
2. Special Issue - International Journal of Research in Pharmacology & Pharmacotherapeutics, <http://www.ijrpp.com/specialarticles/2016/Anna%20University>, ISSN: 2278 – 2648. Special Editors - A. Puratchikody, **S. Lakshmana Prabu**, A. Umamaheswari.
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 Open, Croatia, 2020, ISBN: 9781789857139.
5. Intellectual Property - **S. Lakshmana Prabu**, T.N.K. Suriya Prakash. InTech Open, 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 Open, Croatia. 2023. ISBN 9781837695027.
8. Dosage Forms - Emerging Trends and Prospective Drug-delivery Systems. **S. Lakshmana Prabu**, A. Umamaheswari. InTech, Croatia (In Progress).
9. Plant Secondary metabolites- Terpenes type and functions. Mala Trivedi, **S. Lakshmana Prabu**, R. Thirumurugan. **Bentham Publishers (In Progress)**

PROJECT

1. “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

STUDENT PROJECT

1. **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/-).
2. 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 *Vallisneria spiralis* and systemic investigation of its anti-rheumatoid arthritis activity- Amount Sanction – Rs. 10,000/-

3. **CENTER FOR TECHNOLOGY DEVELOPOMENT AND TRANSFER**, Anna University, Chennai sponsored **Students Innovative Project** 2022. (S.N.Jegasubramanaian 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/-).
4. **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/-).

PROCEEDING

1. **S. Lakshmana Prabu**, SP. Saravanan, A. Shanmugarathinam, K. Ruckmani, A. Bhuvaneswari. Preparation and characaterization of Leflunomide loaded nanosuspensions for Rheumatoid arthritis. Nanobio Pharmaceutical Technology Applications and Perspectives. Elsevier, 2014, pp. 214-219. ISBN: 978-935-107-293-5.
2. **S. Lakshmana Prabu**, SP. Saravanan, A. Shanmugarathinam, K. Ruckmani, S. Aravindan, A. Bhuvaneswari, V. Manikandan. Diclofenac sodium nanosuspension: An approach to improve anti-inflammatory therapy. Nanobio Pharmaceutical Technology Applications and Perspectives. Elsevier, 2014, pp. 220-225. ISBN: 978-935-107-293-5
3. **S. Lakshmana Prabu**, A. Shanmugarathinam, SP. Saravanan, M. Elakkiya, V.Manikandan, S. Aravindan, A. Bhuvaneswari. Formulation and evaluation of mouth dissolving film Leflunomide for rheumatoid arthritis. Nanobio Pharmaceutical Technology Applications and Perspectives. Elsevier, 2014, pp. 335-339. ISBN: 978-935-107-293-5
4. S. Divya Priya, S. Sruthi, R. Hema, K. Rajasekar, V. Ganesan, **S. Lakshmana Prabu**, A.Puratchikody, A. Shanmugarathinam. Modified release multiparticulate delivery system for Tramadol HCl using Gelucire 43/01 as rate retarding material. Nanobio Pharmaceutical Technology Applications and Perspectives. Elsevier, 2014, pp. 201-206. ISBN: 978-935-107-293-5.

PUBLICATIONS

1. Vijayalakshmi M, Meganathan S, Surendhar SK, Umamaheswari A, Lakshmana Prabu S. Exploring the Systematic Anticancer Mechanism in Selected Medicinal Plants: A Review. Oncol Adv 2024; 2(3):141–147. doi: 10.14218/ OnA.2024.00012.
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117. K.K. Srinivasan, A.A. Shirwaikar, J. Alex, S. Jacob, M.R. Sunil Kumar, **S. Lakshmana Prabu**. Simultaneous derivative spectrophotometric estimation of aceclofenac and tramadol with paracetamol in combination solid dosage form. *Ind. J. Pharm. Sci.*, 2007; 69(4): 540-545.
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119. A. Shirwaikar., S.L. Prabu, CD Kumar, K. Rajendran, A. Jospeh, A. Shirwaikar, Determination of Racecadotril by Spectrophotometric method in bulk and its formulation *Indian Drugs*, 2007; 44(1): 13-15.
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121. Ravikumar, AA. Shirwarikar, Annie Shirwaikar, Mahalaxmi, **S. Lakshmana Prabu**. Formulation and evaluation of mouth dissolving tablets of Metformin Hydrochloride. *Int. J. Pharm. Excipients*, 2006; Jul-Sep: 86-92.
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123. K.K. Srinivasan, A. Shirwaikar, A. Joseph, A. Jacob, S.L. Prabhu. Simultaneous estimation of Aceclofenac and Paracetamol in solid dosage forms by ultraviolet Spectrophotometry. *Indian Drugs*. 2006; 43(2): 141-146.
124. K.K. Srinivasan, A. Shirwaikar, A. Joseph, A. Jacob, **S.L. Prabhu**. Simultaneous estimation for the Analysis of Salbutamol Sulphate and Ambroxol Hydrochloride in solid dosage forms

by ultraviolet Spectrophotometry. Indian Drugs. 2005; 42(9): 576-579.

FDA APPROVAL

Approved by GOA FDA in Chemical & Instrumentation Analysis.

Approval No: 66 (1391) MFG/APP/DFDA/2000/8034 Dated : 24/01/2002

ADDITIONAL QUALIFICATION

- ISO 9001:2000 Certified Internal Quality Auditor (TUV)

INVITED LECTURE

1. On the title entitled **“Cleaning validation and its importance”**. In: 1st Summer School on **“Current Developments in Biological, Nano & Pharmaceutical Technology”**. Anna University of Technology, Tiruchirappalli. Date: 05 to 18th 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, Tiruchirappalli. Date: 10th 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 25th 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 8th 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: 17th 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: 12th 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: 13th 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: 21st 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: 21st September 2016.

11. On the title entitled **“Wastewater treatment techniques”**. In: Department of Environmental management, School of Environmental Sciences, Bharathidasan University, Tiruchirappalli. Date: 22nd 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: 24-25th October, 2017.
13. On the title entitled **“Recent trends on Nano Technology”**. In: One day preconference workshop on **“NANO TECHNOLOGY”**, Cherran’s College of Pharmacy, Coimbatore. Date: 1st 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**, Cherran’s College of Pharmacy, Coimbatore. Date: 08-19th June 2018.
15. On the title entitled **“Hybrid treatment techniques for industrial waste water streams”**, Department of Environmental Science and Management, Bharathidasan University, Tiruchirappalli. 27th 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, 14-15th 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 17th 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 23-24th 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, Thiruvavur, 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, Thiruvavur, Date: 11.07.2022.
22. On the title entitled **“Strategies for effective Idea Generation, Innovation and commercialization”**, Excel Engineering College, Komarapalayam, Date: 13.10.2023.
23. On the title entitled **“Exploring the Neuro-Ophthalmological Spectrum: A Comprehensive Overview of Visual Pathway Disorders”**, Excel Engineering College, Komarapalayam, Date: 13.10.2023.
24. On the title entitled **“Forefront Research in Nanotechnology based drug delivery system”**. In: International Conference on nanotechnology, Swamivivekananda College of Pharmacy, Elaiyampalayam, Date : 12.12.2023.

25. On the title entitled “Drug Discovery: Current state and Future Prospects”, IN: World Pharmacist Day, School of Pharmacy, Hindustan Institute of Technology & Science, Chennai, Date 25.09.2024.
26. On the title entitled “Intellectual Property Rights and its Commercialization”. In: CHEM-INNOVA 2025, PG & Research Department of Chemistry, Bishop Heber College, Trichy, Date: 10.02.2025.

CONFERENCES/ WORKSHOP ORGANIZED

1. **Coordinator:** Fourteen days 1st Summer School on “Current Developments in Biological, Nano and Pharmaceutical Technology”. Department of Pharmaceutical Technology, Anna University Tiruchirappalli. Date: 05-18th April 2010.
2. **Coordinator:** One day “National Level technical symposium”, Department of Pharmaceutical Technology, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli. Date: 20th April 2013.
3. **Convener:** Three day “Indo-US collaborative International Conference NanoBio2013”, Department of Pharmaceutical Technology, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli. Date: 27-29th 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 25th August 2013.
5. **Coordinator:** National Level Technical symposium “PANACEA’14” Department of Pharmaceutical Technology, Anna University (BIT Campus), Tiruchirappalli. Date: 25 – 26th 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: 01-02nd 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: 09-10th 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: 20-24th September 2016.
9. **Coordinator:** National Level Technical symposium “PANACEA’17”, Department of Pharmaceutical Technology, Anna University (BIT Campus), Tiruchirappalli. 04-05th 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: 22nd September 2017.
11. **Coordinator:** Two day Seminar “Challenging Perspectives in Pharmaceutical Technology”, Department of Pharmaceutical Technology, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli. Date: 21-22nd 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: 25th March 2022.

CONFERENCES/ WORKSHOPS/TRAINING PROGRAMME ATTENDED

- 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: 25-28th November 1999.
- Manipal University sponsored “Teaching-Learning Workshop” organized by Department of Medical Education, Kasturba Medical College, Manipal. Date: 4-8th August 2003.
- Manipal University sponsored “Student Evaluation workshop” organized by Department of Medical Education, Kasturba Medical College, Manipal. Date: 27-30th October 2003.
- Participated and presented a research article in 55th Indian Pharmaceutical Congress, Sri Ramachandra Medical College and Research Institute. Date: 19-21st December 2003.
- 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: 3-15th May 2004.
- AICTE sponsored one day seminar on “Environment protection and pollution control awareness” organized by Manipal College of Pharmaceutical Science, Manipal. Date: 16th August 2004.
- AICTE sponsored three days seminar on “Intellectual Property for Drugs and Pharmaceuticals” organized by Manipal College of Pharmaceutical Science, Manipal. Date: 9-11th September 2004.
- 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: 4-5th February 2005.
- 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: 22nd – 3rd September 2005.
- AICTE sponsored National workshop on “Clinical research regulatory affairs – An update” organized by Manipal College of Pharmaceutical Science, Manipal. Date: 19th September -1st October 2005.
- 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: 3rd March 2006.
- 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: 22nd May – 02nd June 2006.
- Manipal Academy of Higher Education sponsored two day workshop on “Research methodology and Biostatistics” organized by Department of Statistics, MAHE, Manipal. Date: 22nd-23rd September 2006.
- 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: 5-18th February 2007.
- 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: 24-26th February 2007.

- AICTE sponsored Quality Improvement programme on “Challenges and opportunities in Pharmaceutical Research” organized by Manipal College of Pharmaceutical Science, Manipal. Date: 12-24th November 2007.
- Participated and presented a research article in 59th Indian Pharmaceutical Congress, Banaras Hindu University, Varanasi. Date: 20-22nd December 2007.
- AICTE sponsored three days seminar on “Scientific writing in research journals” organized by Department of Pharmacy Management, Manipal College of Pharmaceutical Science, Manipal. Date: 28-30th April 2008.
- Attended UGC sponsored 77th Orientation Programme at UGC- Academic Staff College, Bharathidasan University, Tiruchirappalli. Date: 15th November – 12th December 2012.
- Indian Society for Technical Education sponsored National workshop on “Effective Teaching & Learning Pedagogy”, held at KTDC Chaitram Hotel, Trivandrum. Date: 5-7th February 2014.
- NBA sponsored workshop on “Training of Evaluators/Resource persons on outcome based accreditation” organized by Bannari Amman Institute of Technology, Sathyamangalam. Date: 5th March 2014 (Phase I) and 14-16th March 2014 (Phase II).
- DST sponsored workshop on “Sophisticated spectroscopic instruments” held by Department of Pharmaceutical Technology, BIT Campus, Anna University, Tiruchirappalli. Date: 8-10th May 2014.
- 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: 19th January – 5th February 2015.
- 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: 24th June – 7th July 2016.
- One day workshop on “Advances in Rheology”, Department of Pharmaceutical Technology, BIT Campus, Anna University, Tiruchirappalli. Date: 08th August 2016.
- 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: 21st April 2017.
- National Seminar on “Recent Advances in Antiviral Drug Design against Emerging and Re-Emerging Viral Diseases”, Kalasalingam University, Tamil Nadu. Date: 24-25th October, 2017.
- One day workshop on “Asana and breathing exercise”, Department of Physical Education, BIT Campus, Anna University, Tiruchirappalli. Date: 07th February 2018.
- One day preconference workshop on “NANO TECHNOLOGY”, Cherraan’s College of Pharmacy, Coimbatore. Date: 1st June 2018.
- National Seminar on “Recent advances in Antiviral Drug design, Discovery and Development, Cherraan’s College of Pharmacy, Coimbatore. Date: 08-19th June 2018.
- Online NPTEL-AICTE Certification Faculty Development Programme on “Intellectual Property Rights” from July – Oct 2018.
- “Intellectual Property Rights & Entrepreneurship”, Entrepreneurship Development and Innovation Institute, PMO-IEDP (Programme Monitoring Office – Innovation &

Entrepreneurship Development Programme), BIT Campus, Anna University, Tiruchirappalli, 22-23rd November 2019.

- Online NPTEL-AICTE Certification Faculty Development Programme on “NBA Accreditation and Teaching – Learning in Engineering (NATE)” from Jan- April 2020.
- 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, 21st May – 3rd June 2020.
- Industrial Training on “Communication and Networking Technologies”, Bharat Sanchar Nigam Limited, Chennai, 14.07.2020-03.08.2020.
- Online NPTEL-AICTE Certification Faculty Development Programme on “Health Research Fundamentals” from Jan – March 2021.
- Online NPTEL-AICTE Certification Faculty Development Programme on “Introduction to Professional Scientific Communication” from 24 Jan 2022- 18 Feb 2022.
- Online NPTEL-AICTE Certification Faculty Development Programme on “Effective Engineering “Teaching” in Practice. Jan – February 2022.

OTHER INFORMATIONS

- **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: 21-22nd Jan-2010.
- **Evaluator** for the poster presentation session of the DST and DBT sponsored 5th Annual International Convention of Association of Pharmacy Professionals held in the Department of Pharmaceutical Technology, Anna University (BIT Campus), Tiruchirappalli during 22-23rd January 2016.
- **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: 24-25th October, 2017.
- **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: 08-19th June 2018.
- **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, 12-13th September 2019.
- **Chair Person-** International Conference on “Recent Advances in Herbal Drug Standardization”, Aravindh Herbal Labs (P) Ltd., Rajapalayam, 14-15th December 2019.

PROFESSIONAL MEMBERSHIP

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.
Membership No: TM/CH/IPH4-4041
5. Antiviral Research Society. Life Member, 2017.

(S. Lakshmana Prabu)