

## CURRICULUM VITAE

**Dr.M.Vijayalakshmi**  
**Assistant Professor**  
**Department of Pharmaceutical Technology**  
**UCE – BIT Campus, Tiruchirappalli 620 024**  
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➤ **Research Area:**

- Herbal drug – Standardization, lead molecule identification and isolation
- Herbal formulation
- Herbal drug discovery for inflammatory diseases.

➤ **Educational Qualifications:**

<b>Qualification</b>	<b>College/University</b>	<b>Year of completion</b>	<b>Percentage</b>	<b>Class</b>
Ph.D in Technology	Anna University, Chennai	July 2018	-	-
M. Pharm. Pharmacognosy	Madurai Medical College, Madurai/ The Tamilnadu Dr. MGR Medical university	2008	85.38%	First class
B.Pharm	Periyar College of Pharmaceutical Sciences for Girls, Tiruchirappalli/ The Tamilnadu Dr. MGR Medical university	1996	68.5%	First class
Others				

**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>
University College Of Engineering, Bit Campus Tiruchirappalli.	Assistant Professor (Sr.Gr)	7.09.2009	Till date	14 years

SRM College of Pharmacy, Kattangulathur, Chennai.	Lecturer	4.07.2009	31.08.2009	2 months
M/S. Thanthai Roever College of Pharmacy, Perambalur.	Lecturer	16 .07.2008	30.06.2009	1 year
M/S. Merpha Laboratories, Trichy.	Analytical Chemist	01.04.1999	31.08.2000	1 year 4months
M/S. Madras Industrial Co- Operative Analytical Lab, Chennai.	Trainee Chemist	05.08.1998	31.03.1999	8 months
M/S.Merpha Laboratories, Trichy.	Manufacturing Chemist	01.06.1996	31.07.1998	2 years

➤ **Awards / Honours Received:**

1. Topper in 12 weeks Online NPTEL-AICTE Certification Faculty Development Programme titled “Intellectual Property” on April 2023.
2. Excellence consolation award for E-Poster presentation entitled “*Myxopyrum serratum* A. W.Hills alleviates lipopolysaccharide induced inflammatory responses in RAW 264. murine macrophages” in APP 9th annual convention held at Faculty of Pharmaceutical Sciences, SunRise University, Alwar, Rajasthan on 19 and 20-December 2020.
3. Received APP best performer award APP 9TH ANNUAL VIRTUAL INTERNATIONAL CONVENTION (RAPSPR2HC-2020) held at Faculty of Pharmaceutical Sciences, SunRise University, Alwar, Rajasthan on 19th & 20th day of December 2020.
4. Certificate of appreciation for produced 100% results in the subject ‘Herbal Technology’ for the academic year 2018-2019.

➤ **Additional / Academic Responsibilities at University:**

1. Co-coordinator- Health Centre
2. Department co-ordinator- SAP-WASTE MANAGEMENT
3. Chief Anna University representative for end semester examination
4. Question paper setter for theory and practical examination of Anna University end semester examination.
5. Syllabus revision

➤ **Membership of Scientific and Professional Societies:**

1. Life member in Association of Pharmacy Teachers of India (APTI)
2. Life member in Association of Pharmacy Professionals, India (APP)
3. Registered Pharmacist, Tamilnadu State Pharmacy Council

➤ **Fellowships and Grants received:**

- TEQIP-II, BIT campus, Anna University, Tiruchirappalli sponsored research grant Rs.10,000/- received for the UG project entitled “Screening of phytochemicals and in vitro evaluation of anti-oxidant & anti-inflammatory activity of *Azolla pinnata*”.

➤ **Completed PG/UG Projects:**

- a. Number of PG Projects Completed: 2 Nos
- b. Number of UG Project Completed: 20 batches

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

Sl. No	Name of the scholar	Tentative Title of the thesis	Year of registration	Status
1.	A.R. Rampriya	Exploration of novel ethnopharmacologic approach of selected medicinal plant against pneumonitis	Feb 2020	ongoing

➤ **Publications:**

a. **Books / book chapters:**

1. A. Umamaheswari, M. Vijayalakshmi, S. barath Raj, C. Dinesh Kumar, S. Lakshmana Prabu. Gum Based drug delivery systems, Springer, 2023.
2. Ramapriya Alagarsamy Rajagopal, Venkateshwaran Krishnaswami, Vijayalakshmi Maruthamuthu and Ruckmani Kandasamy. Functionalized carbon nanomaterials for biomedical imaging for diagnostics, Elsevier, 2022.
3. 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. Academic Press is an imprint of Elsevier, 2022.

4. A. Umamaheswari, M. Vijayalakshmi, M. Dhivya Sree, S. Lakshmana Prabu, A.Puratchikody. Cogent and Strategic Approaches for Gene Delivery with Nanostructures. Apple Academic Press, Inc. Co-published with CRC Press (Taylor & Francies), 2022.
5. M.Vijayalakshmi, K. Akilandeswari, K.Kavitha. Phytodrugs, March 2016, ISBN no. 978-93-5254-503-2, ASSVET International Publisher Co, Editors Dr.M.Arulmozhi, Dr.K.Kumaraguru
6. K. Akilandeswari, M.Vijayalakshmi, K.Kavitha, A.Vinitha, Shanthini. The plummet of synthetic dyes, March 2016, ISBN no. 978-93-5254-503-2, ASSVET International Publisher Co, Editors Dr.M.Arulmozhi, Dr.K.Kumaraguru
7. Bharaneetharan, K.Kavitha, K. Akilandeswari, M.Vijayalakshmi. Fuel formation, March 2016, ISBN no, 978-93-5254-503-2, ASSVET International Publisher Co, Editors Dr.M.Arulmozhi, Dr.K.Kumaraguru

**b. International Journals:**

1. M. Vijayalakshmi, A. Umamaheswari, B. Agalya, S. N. Jegasubramaniam, S. Lakshmana Prabu. 2022 Foresight on Phytoconstituents and Associated Pharmacological Activities of Traditional Medicinal Plant: *Saussurea costus* (Falc.) Lipschitz. *Current Pharmacology Reports*, (IF: 1.52), Springer publishers.
2. A. Umamaheswari, M. Vijayalakshmi, M. Dhivya Sree, S. Lakshmana Prabu, A.Puratchikody. Typical Properties of Nanomaterials for Applications in Drug Delivery: A Review. *Bioequiv & Bioavailab Int J* 2021, 5(2): 000155. Medwin publisher.
3. Vijayalakshmi Maruthamuthu, Linda Jeeva Kumari Hendry, Mohan Kumar Ramar, Ruckmani Kandasamy “*Myxopyrum serratum* ameliorates airway inflammation in LPS-stimulated RAW 264.7 macrophages and OVA-induced murine model of allergic asthma” *Journal of Ethnopharmacology*, 255 (2020). 112369, pp 1-14. I.F – 5.43.
4. Mohammed Al Bratty, Lalitha K Govindaram, Neelaveni Thangavel, Hassan A Alhazmi, Angum MM Ibrahim, Vijayalakshmi Maruthamuthu, et al. “High performance thin-layer chromatography and in vitro cytotoxic studies on ethanol extract of *Matricaria chamomilla* L (*Asteraceae*) flowers”. *Tropical Journal of Pharmaceutical Research*, 2019 ; Vol. 18 (9) : 1969 - 1976.
5. K.Akilandeswari, M.Vijayalakshmi, K.Kavitha and M.Girija, “Antibacterial, cytotoxic studies of *Azukia mungo* (L) masam and correlation with in silico docking studies”. *Research & Reviews: A Journal of Toxicology*, 2017; Vol.7,no.3. pp. 21-31.
6. Vijayalakshmi Maruthamuthu & Ruckmani Kandasamy. “Bronchodilatory effect of *Myxopyrum serratum* in animal model.” *Bangladesh Journal of Pharmacology*, 2017;Vol.12: pp. 84-90. IF-1.43.

7. M. Vijayalakshmi, K. Ruckmani. "Ferric Reducing Anti-oxidant Power Assay in Plant Extract." Bangladesh Journal of Pharmacology, 2016; Vol.11 (3) : pp.570-572. (IF: 1.43)
8. Vijayalakshmi Maruthamuthu, Ruckmani Kandasamy. "Phytochemical screening of secondary metabolites from *Myxopyrum serratulum* A.W. Hills by GC-MS, HPTLC analysis." International Research Journal of Pharmacy, 2016; Vol. 7(6): pp. 51-57. DOI: 10.7897/2230-8407.07663.
9. M.Vijayalakshmi, R.Kiruthika, K.Bharathi, K.Ruckmani. "Phytochemical screening by LC-MS analysis and *in vitro* anti- inflammatory activity of Marselia quadrifolia plant extract." International Journal of PharmTech Research, 2015; vol. 8 (9) : pp.148-157. ISSN: 0974-4304.
10. M.Vijayalakshmi & K.Periyanayagam. "Quantitative Microscopy and invitro antidandruff activity of *Dichrostachys cinerea* Wight& Arn." Journal of Pharmaceutical and Scientific Inovation. 2014; Vol.3 (5): pp. 448-450.
11. M.Vijayalakshmi, Udhayasudha, Ramyarajeshwari, S.Gokila. "Quantification of Phytoconstituents of *Spermaceoce hispida* and its inhibitory activity against Hct 116 cancer cell lines." International Journal of Pharmacy and Technology, 2014; Vol.6 (2 ): pp. 6789-6795.
12. Viajayalakshmi, M."Pharmacognostical Standardization and Phytochemical Analysis of Leaves of *Dichrostachys cinerea* W & Arn." International Journal of Pharmacognosy and Phytochemical Research, 2013; Vol. 5(3) : pp.232-235.IF:1.129.
13. Kavitha.K, Sailasri.Y, Akilandeshwari K, Vijayalakshmi M, Velmani Gopal and Nalini C.N "Design and Optimization of Anti-Depressant Sustained Release Matrix Tablets" Research Journal of Pharmaceutical, Biological and Chemical Sciences, 2013; Vol.4 (2): pp. 919-927, ISSN : 09758585.
14. K.Akilandeshwari, K.Kavitha, M.Vijayalakshmi. "Production of bioactive enzyme l-asparaginase from fungal isolates of water sample through submerged fermentation" International journal of pharmacy and pharmaceutical sciences, 2012;Vol. 4: pp. 363-366.
15. Vijayalakshmi M, Periyanayagam K, Lakshmana Prabu,S. "*In vitro* Antilice activity of *Dichrostachys cinerea* (L.) Wight & Arn."International Journal of PharmTech Research, 2010;Vol.2: pp. 2210-221

**c. National Journals:**

1. M.Vijayalakshmi, K. Akilandeshwari, K. Kavitha, S.Gokila, R.Vinothkumar. "Green synthesis and antibacterial activity of green synthesis using *cressa cretica* plant extract," Chemical Letters, 2018; Vol.1 (1). Pp.12-18.

2. M.Vijayalakshmi, K. Periyannayagam, K. Kavitha, K. Akilandeshwari. "Phytochemical analysis of ethanolic extract of *Dichrostachys Cinerea* W & Arn leaves by a thin layer chromatography, high performance thin layer chromatography and column chromatography," Ancient Science of Life, 2013; Vol. 32 (4). pp. 227-233.

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

- Organized – national Webinar on “A Recent Insight on Intellectual Property Rights in India, USA and Europe” in the Department of Pharmaceutical Technology, University College of Engineering, BIT campus, Tiruchirappalli held on 06/07/2020.
- As a Co-ordinator - two days seminar on ‘Challenging Perspectives in Pharmaceutical Technology’ organized by Department of Pharmaceutical Technology, University College of Engineering, BIT campus, Tiruchirappalli during 21 &22 February 2020.
- Co-ordinator- “Advanced training programme for sophisticated analytical equipment” organized by Centre for Excellence in Nanobio Translational Research (CENTRE), Anna University, BIT Campus, Tiruchirappalli during 25 & 26th January-2019.
- Co-ordinator- One day seminar entitled “ Advances in Chemical Reaction Engineering” organized by Department of Pharmaceutical Technology, University College of Engineering, BIT campus, Tiruchirappalli on 4<sup>th</sup> September 2018.

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

- 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.
- Four-week online 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.
- Completed 12 weeks Online NPTEL-AICTE Certified Faculty Development Programme entitled “Intellectual Property” on April 2023.

- தொழில்நுட்பத் தமிழ் பயிலரங்கு, பொறியியல் தொழில்நுட்பத் தமிழ் வளர்ச்சி மையம் Anna University, Chennai and Conducted by University College of Engineering, BIT Campus, Tiruchirappalli held during 9.02.2023 to 10.02.2023.
- Completed 4 weeks Online NPTEL-AICTE Certification Faculty Development Programme entitled “Introduction to Professional Scientific Communication” on March 2022.
- Participated 5-day online FDP on “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education(AICTE) from 20<sup>th</sup> December, 2021 to 24<sup>th</sup> December, 2021.
- One week Short term course on “Analytical and molecular strategies in Herbal drug research” organized by Mother Theresa Post graduate research institute of health sciences, Puducherry from 22<sup>nd</sup> July -29<sup>th</sup> July 2021.
- Completed 8 weeks Online NPTEL-AICTE Certification Faculty Development Programme titled “Health research fundamentals” on March 2021.
- National level virtual training on “ICT tools for effective assessment – Formative and summative organized by Dwaraka Doss goverdhan doss Vaishnav College (Autonomus), Arumbakkam, Chennai during 17-09-2020 to 18-09-2020.
- Attended the international webinar entitled “PHD Thesis Writing” on 10th September 2020, conducted by Narayana Translational Research Centre (NTRC), Narayana Medical College, Nellore, Andhra Pradesh, India.
- Attended three weeks Industrial Training on “communication and networking technologies.” Organized by BSNL, Tiruchirappalli during 30-07-2020 to 19-08-2020.
- Participated One-Week Online Faculty Development Programme on “Mentoring Pedagogy & Teaching for Higher Education” organized by E&ICT Academy IIT Guwahati held from 20 – 27 July, 2020 in association with IQAC, Dakshin Kamrup College, Mirza.
- International webinar on Covid-19-role of public health scientist: from Clinical samples to sequencing Department of pharmaceutical Technology, University College of Engineering, BIT Campus, Tiruchirappalli on 15th July 2020.

- International webinar series titled “KALEIDOSCOPE 3.0” organized by Department of Microbiology, St. Joseph’s College (Autonomous), Bengaluru from 9th – 11th July 2020.
- Participated in the webinar on the topic “Funding Opportunities in Biotechnology” delivered by Dr. Meenakshi Munshi, Adviser/Scientist G, Head HRD & Societal Program Division, Department of Biotechnology, Government of India organized by PG and Research Department of Biotechnology and Bioinformatics on 27.06.2020.
- Participated Two weeks online Faculty Development 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 in association TNSCST held during May 21, 2020 to June 3, 2020.
- Participated in the webinar titled “Controlled release formulation” on May 26, 2020 organized by School of chemical and Biotechnology, SASTRA deemed to be University, Tanjore.
- Attended a webinar on “HPTLC and Botanical Origin Material Analysis” Conducted by ANCHROM enterprises (I) Ltd on May 15, 2020.
- Two days national seminar on “Nuclear magnetic resonance spectroscopy” organized by Department of chemistry, The Gandhigram rural institute, Gandhigram during 22-23<sup>rd</sup> March 2019.
- BDU & DST PURSE sponsored one day national seminar on “Emerging trends in Cancer and Stem cell biology” organized by Department of Biomedical Science, Bharathidasan University, Tiruchirappalli. held on 20<sup>th</sup> March-2018.
- Participated – Two weeks Science academies Refresher course on Known to Unknown Techniques in Biology during 1-15<sup>th</sup> November 2018, at PG & Research Department of Botany, St. Joseph’s College, Tiruchirappalli
- Two weeks Faculty Development Programme on “New Perspectives in Drug Discovery and Progressive Technological Developments” from 04/05/2015 to 17/05/2015, Department of Pharmaceutical Technology, Anna University, BIT campus, Tiruchirappalli.
- DST Sponsored Workshop on “Sophisticated Spectroscopic Instruments.” 8-10th May-2014. Bharathidasan Institute of Technology, Anna University, Tiruchirappalli.



- TEQIP-II sponsored national seminar on “Research paper, Dissertation and project proposal preparation”, 14<sup>th</sup> Feb-2014, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli.
- National Symposium on “Teaching Learning in Higher Technical Education”. 28-29 May, 2014. Indian Institute of Technology Madras, Chennai.
- UGC sponsored 81st Orientation programme from 06/11/2013 to 03/12/2013, UGC - Academic Staff College, Bharathidasan University, Tiruchirappalli.
- Two weeks Faculty Development Programme entitled “Recent Advancements on Herbal formulation and Drug Delivery systems of Indian systems of Medicine” during 27/05/2013 to 08/06/2013 at R.C. Patel Institute of Pharmaceutical Education & Research, Shirpur, Dhule, Maharashtra.
- One day National Seminar on “Strategic Quality Teaching Management for Technical Teachers” on 16<sup>th</sup> March-2013, Anna University, Chennai, BIT Campus, Tiruchirappalli.
- One day Workshop on “Teaching Skills and Smart Class Room Tools” on 07-January 2013, Anna University, Chennai.
- One Day seminar on “Research Methodology” on 27<sup>th</sup> August-2011, organized by Centre for Research, Anna University of Technology, Tiruchirappalli.
- ICMR Sponsored Work shop on Prospects and Perspectives of Herbal Drug Technology, Periyar College of Pharmaceutical Sciences for Girls, Tiruchirappalli, 26-27<sup>th</sup> April - 2010.
- **National / International Conferences organized/ Participated:**
  - Co-ordinator – DST & TEQIP II sponsored National conference on “Recent Strategies of herbal Research in life sciences- An experimental approach” held during 19-20<sup>th</sup> September-2014, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli.
  - Co-ordinator - Finance in “Nano Bio Collaborative International conference held during 27-29<sup>th</sup> June 2013, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli
  - Member - National Conference on Recent Trends and Applications of Nanotechnology in Pharmacy and Biology, Anna University of Technology, Tiruchirappalli, Jan 2010.
  - E-poster presented entitled “*Myxopyrum serratum* A.W.Hills alleviates Lipopolysaccharide induced inflammatory responses in RAW 264.7 murine

macrophages”in Two days virtual 9th annual international convention Organized by SUNRISE UNIVERSITY, ALWAR, RAJASTHAN, during December 19-20, 2020.

- DBT sponsored International conference on ‘Frontiers in chronic diseases (CFCD’20)’ organized by PG and Research Department of Zoology, Bishop Heber College Tiruchirappalli on 19<sup>th</sup> Febraury 2020.
- One day international conference on ‘Unravelling biometabolites with bioactivity’ organized by Bishop Heber College (Autonomous), Tiruchirappalli on 25<sup>th</sup> Febraury 2019.
- Participated APP 7<sup>th</sup> Annual Convention & 2<sup>nd</sup> Indo US conference MTCCFSPST-2018 organized by School of Pharmaceutical Sciences, VISTAS, Pallavaram, Chennai on 27<sup>th</sup> July-2018.
- Presented a poster titled “Determination of Ursolic acid by RP-HPLC analysis and *in vitro* anti-inflammatory efficacy of the leaves of *Myxopyrum serratum* A.W.Hills.” in two days international conference on Innovations and challenges in Biomedical Sciences Research, organized by Holy cross College, Tiruchirappalli, during 12-14<sup>th</sup> December, 2017.
- DST sponsored Two days national conference on “Phytochemicals as Biotherapeutics – Unravelling the Mystery of natural products” held on 17 & 18 Feb-2016, Sri Ramachandra University, Chennai.
- Presented a poster on “Green synthesis and antibacterial activity of silver nanoparticle using *Cressa cretica* plant extract”. 5th annual international convention on “Redesigning Pharmacy Education and Regulations for Translational Drug Research in India”22 & 23 rd January-2016.
- National conference on “Recent strategies of herbal research in life sciences-an experimental approach” 19-20<sup>th</sup> September-2014, Anna University, BIT campus, Tiruchirappalli.
- International conference on “Updates in Research Ethics and Research Methodology” 4th and 5<sup>th</sup> March-2013, Sri Ramachandra University, Porur, Chennai. Participated & oral presentation on“Potency and Mechanism of action of Herbal drugs for asthma- A review.
- Two days international conference on “Phytochemical evaluation and *In vitro* Antipsoriatic activity of *Desmodium triflorum*” NanoBio Collaberative International conference-27-29 June-2013, Department of Pharmaceutical Technology, BIT Campus, Tiruchirappalli.
- 64th Indian Pharmaceutical Congress held at SRM University, Chennai during 7-9<sup>th</sup> December-2012.

- National Conference on “Recent Trends and Application of Nanotechnology in Pharmacy and Biology,” Anna University Tiruchirappalli, Tiruchirappalli, 21-22 January -2010.
- National pharmacy week celebration and 2<sup>nd</sup> Annual National convention 2008, 23<sup>rd</sup> November held in Madras Medical College, Chennai.
- UGC Sponsored National conference on Status and Prospects of Medicinal Plants Resources and Herbal Technology, Saraswathi Narayanan College, Madurai, July - 2007.
- Indian Pharmacy Graduates Association 23<sup>rd</sup> Annual Conference on Global Trends in Pharma-Opportunities and Challenges, November-2006.
- **Professional recognition:**(details like chairperson/member of a committee, reviewer, editor ...etc)
  - Acted as a question paper scrutiny member for the end semester theory examinations in Nov-Dec-2021 under autonomous scheme in PAAVAI ENGINEERING COLLEGE, Namakkal.
  - Acted as an EVALUATOR in the national level technical symposium **PANACEA, 20** held on 15 & 16 March 2020 at Department of Pharmaceutical Technology, University College of Engineering, BIT campus, Tiruchirappalli-24.

**Guest lectures delivered:**

- Invited Talk – Delivered a lecture on “Nutraceutical Revolution” in The Institution of Engineers (India) Tiruchirappalli local centre, BHEL Tiruchirappalli on 5th November 2019.
- Motivation lecture for 1<sup>st</sup> year B.Tech Pharmaceutical Technology students during First year induction programme held during November-2023.