



## Dr.S.Latha



Associate Professor, Room No. 208, Academic Block B  
Department of Pharmaceutical Technology  
*Centre for Excellence in Nanobio Translational Research*  
University College of Engineering  
Bharathidasan Institute of Technology Campus  
Tiruchirappalli, Tamil Nadu, India. PIN – 620 024.

**Mob:** 09842598097

**Mail. ID:** [lathasuba2010@gmail.com](mailto:lathasuba2010@gmail.com), [lathasuba@aubit.edu.in](mailto:lathasuba@aubit.edu.in)

**Orcid:** <https://orcid.org/0000-0001-5054-6296>

### PROFESSIONAL SUMMARY

Considering education and research as cutting-edge tools for the societal development, I enjoy teaching pharmaceutical technology subjects and as an academic researcher, my lab explores the possibilities to overcome the challenges in the design of biocompatible magnetic nanomaterials as cargos for the delivery of therapeutics to specific locations in the human body, with a focus on clinical translation.

### HIGHLIGHTS AND ACCOMPLISHMENTS

With passion in developing smart drug delivery systems with a focus on magnetically triggered and controllable drug delivery system. Our lab had developed and reported low cost biocompatible magnetic drug delivery carrier system for ulcer, arthritis and cancer therapy with the goal of achieving an improved therapeutic outcome by overcoming the pharmacodynamics and pharmacokinetics issues.

### EDUCATION

- Ph.D (Pharmacy) – 2009 - Jadavpur University, Kolkata, WB.
- M.Pharm – 2001 - Jadavpur University, Kolkata, WB.
- B.Pharm – 1998 - The T.N. Dr.M.G.R. Medical University, Chennai, TN.
- D.Pharm – 1993 - The T.N. Dr.M.G.R. Medical University, Chennai, TN.

### EXPERIENCE

***Department of Pharmaceutical Technology, Anna University, BIT Campus, Tiruchirappalli, Tamil Nadu. (Formerly School of Engineering and Technology, Bharathidasan University, Tiruchirappalli, Tamil Nadu)***

- Associate Professor – 09.02.2017 onwards
- Assistant Professor – 09.02.2005 – 08.02.2017
- Guest Lecturer – 02.08.2004 – 08.02.2005

***Ultra College of Pharmacy, Madurai, Tamil Nadu.***

- Lecturer - 05.07.2001 – 03.07.2004
- Teaching Assistant – 01.07.1998 – 30.07.1999

## HONOURS AND AWARDS

- Recipient of **Tamil Nadu Young Women Scientist Award** for the year 2014 in Medical Sciences discipline by Science City, Tamil Nadu State Council for Higher Education (TNSCHE).
- Recipient of **Late Smt. Shyama Dahiya Memorial Award (Outstanding Pharmacy Teacher Award)** for the year 2014 in the 3<sup>rd</sup> Annual National Convention **Association of Pharmacy Professionals** held on 18<sup>th</sup> January 2014, at DD University, Nadiad, Gujarat.
- Recipient of **APP Young Pharmacist Award** for the year 2018 in the 7<sup>th</sup> Annual National Convention **Association of Pharmacy Professionals** held on 27<sup>th</sup> July 2018, at Vels University, Chennai.

## GRANTS RECEIVED

- ❖ **Title:** Bioprospection and characterization of bioactive metabolites from marine organisms as possible therapeutic agents.  
**Duration:** 2005-2007  
**Role:** **Dr. P.Selvamani (PI) & Dr. S.Latha (Co-PI)**  
**Funding Agency:** Tamil Nadu State Council for Science and Technology (TNSCST), Government of Tamil Nadu  
**Sanction Order No:** TNSCST/S&T Projects/VR/MS/2004-2005/1196 Dt.17.03.05  
**Amount:** ₹ 219000.00
- ❖ **Title:** Development of a novel method for the manufacture of Pharmaceutical magnetic nanoparticles as a targeted drug release system for future applications in human GI tract.  
**Duration:** 2006-2009  
**Role:** **Dr.S.Latha (PI)**  
**Agency:** Department of Science and Technology (DST), Ministry of Science and Technology, Government of India  
**Sanction Order No:** DST Lr. No. SR/FT/L-115/2005 Dated: 14.07.2006  
**Amount:** ₹ 1062000.00
- ❖ **Title:** Screening of some selected South Indian medicinal plants for treating Rheumatoid Arthritis.  
**Duration:** 2007-2010  
**Role:** **Dr.S.Latha (PI), P.Selvamani (Co-PI) & Dr.A.Saraswathy (Co-PI)**  
**Funding Agency:** Department of Science and Technology (DST), Ministry of Science and Technology, Government of India and Tamil Nadu State Council for Science and Technology (TNSCST), Government of Tamil Nadu  
**Sanction Order No:** DST Lr. No. ST(TN)/R&D/2K6/479 Dt. January 10, 2007  
**Amount:** ₹ 1074000.00
- ❖ **Title:** Formulation development and pharmacotechnical evaluation of controlled release transdermal drug delivery system of a selected new antiemetic drug.  
**Duration:** 2008-2011  
**Role:** **Dr.S.Latha (PI), P.Selvamani (Co-PI)**

**Funding Agency:** University Grants Commission (UGC), Ministry of Higher Education, Government of India

**Sanction Order No:** F.No. 33-120/2007 (SR) Dt. 28.02.2008

**Amount:** ₹ 585000.00

- ❖ **Title:** Design Construction of Fe Drug Nano Complex loaded nano/micro bullets using a novel hybrid technology for magnetic targeted therapy and its comparative evaluation with special emphasis on rheumatoid arthritis.

**Duration:** 2010-2013

**Role:** Dr. S.Latha (PI) & Dr. P.Selvamani (Co-PI)

**Funding Agency:** Defence Research and Development Organization (DRDO), Ministry of Defence, Government of India

**Sanction Order No:** ERIP/ER/0903779/M/01/1249 Dt.29.07.2010

**Amount:** ₹ 1256400.00

- ❖ **Title:** Magnetically triggered drug release from magnetic nanoparticles

**Duration:** 2015-2017

**Role:** Dr.S.Latha (PI), Dr. P.Selvamani (Co-PI) & Mr.C.Prabu (Student)

**Collaborators:** Dr.Silvio Dutz, Andreas Weidner, Technische Universität Ilmenau, Ilmenau, Germany

**Funding agency:** Department of Science and Technology (DST), Ministry of Science and Technology, Government of India and DAAD-German Academic Exchange Service, Germany

**Scheme:** Project-based Personnel Exchange Programme with India - Indo-German Joint Research Collaboration -DAAD / Department of Science and Technology (DST)

**Sanction Order No:** INT/FRG/DAAD/P-255/2015 dated: 10.04.2015.

**Amount:** DST- ₹ 500000.00; DAAD – € 6170.00

- ❖ **Title:** Development of Magnetic Polyherbal Formulation for Targeted Therapy of Breast Cancer

**Duration:** 2016-2018

**Role:** Dr. S.Latha (PI)

**Scheme:** Empowerment and Equity Opportunities for Excellence in Science Scheme

**Funding agency:** Science and Engineering Research B Ministry of Science and Technology, Government of India, New Delhi

**Sanction Order No:** SB/EMEQ-054/2014 Dated: 17.03.2016

**Amount:** ₹ 1100000.00

- ❖ **Title:** Research Seed Grant Scheme for Faculty Members

**Duration:** 2016 -2017

**Role:** Dr. S.Latha (PI)

**Funding agency:** TEQIP II

**Amount:** Rs.50000.00 INR

- ❖ **Title:** Development of peptide conjugated nano-magnetic probes as cancer theranostics

**Duration:** 2018 -2020

**Role:** Dr. P.Selvamani (PI), Dr.S.Latha (Co-PI).

**Collaborators:** Prof.Yasushi Takemura, Yokohama National University & Dr.Satoshi Ota, Shizuoka University, Japan

**Scheme:** India-Japan Cooperative Science Programme (IJCSP) of Department of Science and Technology (DST), New Delhi.

**Funding Agency:** DST, India and JSPS, Japan

**Amount:** Rs.5.00 Lakhs & 980,000 JPY

**Sanction Order No.** DST/INT/JSPS/P-269/2018 Dt.30.08.2018

- ❖ **Title:** Assembly of fluorescent supramolecular peptide conjugated magnetic nano-constructs as efficient multifunctional theragnostic agent for breast cancer

**Host:** Prof. Yasushi Takemura, Assistant to President, Electrical and Computer Engineering, Yokohama National University, Japan

**Amount:** 1000000 JPY + Return airfare and medical insurance

**Duration:** 01.04.2019 – 31.07.2019 (4 Months)

**Sanction Order No.** The Matsumae International Foundation Grant Letter No. 19G27 dt: 03.12.2018

**Scheme:** 2019 Research Fellowship offered by The Matsumae International Foundation, Japan

**Investigators:** Dr.S.Latha (PI)

- ❖ **Title:** Formulation and evaluation of magnetically triggerable smart tablets for improved ulcer therapy. **Duration:** 2018 -2019

**Investigators:** Dr.S.Latha (PI); **Collaborator:** Prof. O.A.Odekku, University of Ibadan, Nigeria.

**Scheme:** Africa-India Mobility Fund

**Funding Agency:** DBT Welcome trust, India and African Academy of Sciences

**Amount:** 7500 USD (Requested)

**Sanction Order No.** AAS/AIMF18/R.2/012 Dt.09.10.2018

#### FELLOWSHIPS RECEIVED

- Recipient of **Young Scientist Fellowship Program** for the year 2007-2008 sponsored by TNSCST, Chennai to carry out a short term research/training project under the guidance of Prof. (Dr.) T.K.Pal, Director Bioequivalence Study Centre, Department of Pharmaceutical Technology, Jadavpur University, Kolkata for a period of three months from 02.05.2008 – 30.07.2008. Sanction Order No. TNSCST/YSFS/VR/2007-08/770 Dt. 5.12.2007.
- Recipient of **The Matsumae International Foundation Fellowship for the year 2019** from The Matsumae International Foundation, Tokyo, Japan as **Visiting Professor** to **Yokohama National University, Japan** for a period of 4 months from 01.04.2019 to 30.07.2019.

#### INSTITUTIONAL ADMINISTRATIVE RESPONSIBILITIES

- Coordinator – Institutional Quality Assurance Cell, Anna University, BIT Campus, Tiruchirappalli (No. AU/BIT/DEAN/2021 Dt. 16.11.2021)
- Deputy Warden, Ladies Hostel, Anna University, BIT Campus, Tiruchirappalli, 2010 (Procs. No. 004/2010 Dt.04.05.2010)

- Scientist in charge, Central Animal Facility, Anna University, BIT Campus, Tiruchirappalli.
- Member, Institutional Animal Ethics Committee, Anna University, BIT Campus, Tiruchirappalli from March 2016 to March 2021. (Ref No. AU-ROT/AH/001/2016 Dt. 03.03.2016)
- Both B.Tech and M.Tech first year class coordinator for the period from Jan 2014 to Till date.
- Member, Anti-raging committee.
- M.Pharm., M. Tech., B.Tech question paper author, viva-voce and practical examiners in in many Universities and colleges. (Anna University, Bharathidasan University, Satyabama University, Dr.M.G.R Medical University etc.,)
- Member in Board of Studies, M.Pharm Courses & B.Tech Pharmaceutical Technology, Anna University, Tiruchirappalli – 24 during the period from 2007 - 2011.

## **PROFESSIONAL DEVELOPMENT ACTIVITIES**

### **BOOKS**

1. Book of Abstracts of the National Level Conference on Advances in Drug Design, Discovery and Development. Self-Published Year of Publishing: 2014. ISBN: 978-93-5174-656-0.
2. Edited a book entitled 'Nanobio Pharmaceutical Technology – Applications and Perspectives'. Published by ELSEVIER (A division of Reed Elsevier India Pvt Ltd. Year of Publishing: 2014. ISBN: 978-935-107-293-5.
3. Scientific Abstracts presented at the 5<sup>th</sup> International Convention of Association of Pharmacy Professionals: Redesigning Pharmacy Education and Regulations for Translational Drug Research in India, hosted at Anna University, Centre for Excellence in Nanobio Translational Research, Bharathidasan Institute of Technology Campus, Tiruchirappalli, Tamil Nadu, India, 22<sup>nd</sup>–23<sup>rd</sup> January, 2016. New Horizons in Translational Medicine, Available online 21 January 2016. Published by ELSEVIER. Editors: P.Selvamani, S.Latha & K.Ruckmani.
4. Proceedings of the National Conference on Advances in Drug Design, Discovery and Development (NCADDD-2014). Published as special issue in the Asian Journal of Medical and Pharmaceutical Sciences Vol 2 Issue (2), July 2014 pp. 108 -194. ISSN: 2348-0165
5. Scientific Abstracts of the International Conference on Innovations and Future Research Dimensions on Nanobio Pharmaceutical Technology. Self-Published Year of Publishing: 2014.

### **BOOK CHAPTERS:**

1. Chapter entitled "Phytochemical and Pharmacological Profile of Plants belonging to *Strychnos* Genus: A Review" in Book Series "Bioactive Phytochemicals: *Perspectives for Modern Medicine*" -Vol. 1 Edited by. Dr. V.K. Gupta. DAYA PUBLISHING HOUSE® New Delhi - 110 002, India. 2012. Pages. 277 - 330. ISBN: ISBN 978-81-7035-778-0 (Series), ISBN 978-81-7035-779-7 (Volume 1)  
*Authors: P. Rajesh, V. Rajesh Kannan, S. Latha and P. Selvamani*

2. Chapter entitled "Formulation development and pharmaceutical evaluation of lornoxicam magnetic nanoemulsion" was published in a Book "Nanomaterials" Edited by. V.Rajendran, P.Prabu, K.E.Geckeler. Bloomsbury Publishing Pvt Ltd, New Delhi, 2012. ISBN 978-93-82563-37-2. P .No. 101-106  
*Authors: M.Aniskumar, C.Prabu, S. Latha and P. Selvamani*
3. Chapter entitled "Preparation and Evaluation of Prednisolone Magnetic Nanosuspension for possible Use in Rheumatoid Arthritis Therapy" was published in a Book "Nanomaterials" Edited by. V.Rajendran, P.Prabu, K.E.Geckeler. Bloomsbury Publishing Pvt Ltd, New Delhi, 2012. ISBN 978-93-82563-37-2. P.No. 107 – 112.  
*Authors: M.Aniskumar, T.Silambarasi, S. Latha and P. Selvamani*
4. Chapter entitled 'Synthesis and Characterization of PAMAM dendrimer and its applications for removal of Heavy metals' was published in a book "Nanobio Pharmaceutical Technology – Applications and Perspectives" edited by Latha Subbiah, Selvamani Palanisamy and Subramanian Natesan. Published by ELSEVIER (A division of Reed Elsevier India Pvt Ltd) 2014. ISBN: 978-935-107-293-5. P.No. 14-20.  
*Authors: E.Gomathi, P.Rajesh Prasanna, P.Selvamani, S.Latha*
5. Chapter entitled 'Design and characterization of Baclofen Sustain Release Tablet Using Hydrophilic Matrix' was published in a book "Nanobio Pharmaceutical Technology – Applications and Perspectives" edited by Latha Subbiah, Selvamani Palanisamy and Subramanian Natesan. Published by ELSEVIER (A division of Reed Elsevier India Pvt Ltd) 2014. ISBN: 978-935-107-293-5. P.No. 245- 251.  
*Authors: R.Mohankumar, M.Balakumaran, M.Annapoorani, P.Selvamani, N.Subramanian and K.Ruckmani*
6. Chapter entitled 'Preparation of prednisolone loaded CaCO<sub>3</sub> Microparticles for Sustained Release' was published in a book "Nanobio Pharmaceutical Technology – Applications and Perspectives" edited by Latha Subbiah, Selvamani Palanisamy and Subramanian Natesan. Published by ELSEVIER (A division of Reed Elsevier India Pvt Ltd) 2014. ISBN: 978-935-107-293-5. P.No. 278 - 285.  
*Authors: C.Prabu, S.Latha, P.Selvamani.*
7. Chapter entitled 'Formulation and evaluation of stavudine loaded niosomes and its quantitative estimation by HPLC' was published in a book "Nanobio Pharmaceutical Technology – Applications and Perspectives" edited by Latha Subbiah, Selvamani Palanisamy and Subramanian Natesan. Published by ELSEVIER (A division of Reed Elsevier India Pvt Ltd) 2014. ISBN: 978-935-107-293-5. P.No. 348 - 354.  
*Authors: R.Barathi, R.Benasir Begum, T.Keerthana, S.Latha, P.Selvamani.*
8. Chapter entitled 'Optimization and Formulation of Drug Loaded Magnetic Microcapsules' was published in a book "Nanobio Pharmaceutical Technology – Applications and Perspectives" edited by Latha Subbiah, Selvamani Palanisamy and

Subramanian Natesan. Published by ELSEVIER (A division of Reed Elsevier India Pvt Ltd) 2014. ISBN: 978-935-107-293-5. P.No. 355 - 363.

*Authors:* C.Prabu, S.Latha, P.Selvamani.

9. Chapter entitled 'Formulation and Characterization of Carisoprodol Magnetic Nano Emulsion for Rheumatoid Arthritis' was published in a book "Nanobio Pharmaceutical Technology – Applications and Perspectives" edited by Latha Subbiah, Selvamani Palanisamy and Subramanian Natesan. Published by ELSEVIER (A division of Reed Elsevier India Pvt Ltd) 2014. ISBN: 978-935-107-293-5. P.No. 364 - 372.  
*Authors:* A.Stephen Prawin Kumar, G.Phonnavan, G.Vinoth Kumar, M.Neelumathi, P.Selvamani, S.Latha
10. Chapter entitled 'Exploration of Antimicrobial Proteins from Marine Bivalve' was published in a book "Nanobio Pharmaceutical Technology – Applications and Perspectives" edited by Latha Subbiah, Selvamani Palanisamy and Subramanian Natesan. Published by ELSEVIER (A division of Reed Elsevier India Pvt Ltd) 2014. ISBN: 978-935-107-293-5. P.No. 348 - 354.  
*Authors:* G.Vinoth Kumar, M.Arputha bibiana, C.Sherlina Daphny, P.Selvamani, S.Latha
11. Chapter entitled 'Extraction and Antimicrobial Evaluation of Buffer Extracts of Marine Invertebrate *Donax cuneatus*' was published in a book "Nanobio Pharmaceutical Technology – Applications and Perspectives" edited by Latha Subbiah, Selvamani Palanisamy and Subramanian Natesan. Published by ELSEVIER (A division of Reed Elsevier India Pvt Ltd) 2014. ISBN: 978-935-107-293-5. P.No. 530 - 537.  
*Authors:* M.Arputha bibiana, C.Sherlina Daphny, M.Umamagshewari, P.Selvamani, S.Latha
12. Chapter entitled 'Evaluation of Anticholinesterase Activity of *Cadaba indica* by TLC Bioautographic Method and Isolation of Active Phytoconstituents by Bioassay Guided Fractionation' was published in a book "Nanobio Pharmaceutical Technology – Applications and Perspectives" edited by Latha Subbiah, Selvamani Palanisamy and Subramanian Natesan. Published by ELSEVIER (A division of Reed Elsevier India Pvt Ltd) 2014. ISBN: 978-935-107-293-5. P.No. 538 - 543.  
*Authors:* P.S.Dhivya, P.Selvamani, S.Latha, M.Omrohini, M.Sobiya
13. Chapter entitled 'Diuretic activity of Ethanolic Extract of *Aristolochia indica* Linn. In Rats' was published in a book "Nanobio Pharmaceutical Technology – Applications and Perspectives" edited by Latha Subbiah, Selvamani Palanisamy and Subramanian Natesan. Published by ELSEVIER (A division of Reed Elsevier India Pvt Ltd) 2014. ISBN: 978-935-107-293-5. P.No. 604 - 606.  
*Authors:* R.Mohankumar, M.Balakumaran, P.Selvamani, N.Subramanian and K.Ruckmani

14. Chapter entitled 'Antimicrobial Activity of *Asystasia gangetica* (L) T.Anderson Flower Extracts' was published in a book "Nanobio Pharmaceutical Technology – Applications and Perspectives" edited by Latha Subbiah, Selvamani Palanisamy and Subramanian Natesan. Published by ELSEVIER (A division of Reed Elsevier India Pvt Ltd) 2014. ISBN: 978-935-107-293-5. P.No. 630 - 634.  
*Authors:* R.Jayalakshmi, P.Selvamani, K.Ruckmani and N.Subramanian
15. Chapter entitled 'Computational Graphical User Interface Tool Development for Personalized Drug Selectivity and Designed Pharmacology' was published in a book "Nanobio Pharmaceutical Technology – Applications and Perspectives" edited by Latha Subbiah, Selvamani Palanisamy and Subramanian Natesan. Published by ELSEVIER (A division of Reed Elsevier India Pvt Ltd) 2014. ISBN: 978-935-107-293-5. P.No. 635 - 639.  
*Authors:* M.Poornima, P.Selvamani, S.Latha
16. Chapter entitled "Recent Advances in Genetic Engineering Tools for Metabolic Engineering"Engineering of Microbial Biosynthetic Pathways. Published by Springer Nature Singapore Pte Ltd. 2020. [https://doi.org/10.1007/978-981-15-2604-6\\_6](https://doi.org/10.1007/978-981-15-2604-6_6) (In press).  
*Authors:* Jerolen Naidoo, EzioFok, Lichelle Grobler, Reitumetse Molaoa, Zandile Nxumalo, P. Selvamani, S. Latha, and Deepak B. Thimiri Govinda Raj
17. Chapter entitled "Addressing antimicrobial resistance through nanoantibiotics: challenges and novel strategies in 'Nano-Strategies for Combatting Antimicrobial Resistance and Cancer'. Editors: Muthupandian Saravanan, Venkatraman Gopinath, Karthik Deekonda. Medical Information Science Reference, 2020. ISBN 1799850498, 9781799850496  
*Authors:* Krishnanand Nagarajan, Sathish Kumar Perumal, Sathish Kumar Marimuthu, Selvamani Palanisamy, Latha Subbiah.
18. Chapter entitled "Magnetic Nanoparticles: Role in Next Generation Nanomedicine in 'Nano-Strategies for Combatting Antimicrobial Resistance and Cancer'. Editors: Muthupandian Saravanan, Venkatraman Gopinath, Karthik Deekonda. Medical Information Science Reference, 2020. ISBN 1799850498, 9781799850496.  
*Authors:* Subbiah Latha, Palanisamy Selvamani, Palanisamy Suresh Babu, Deepak B.Thimiri Govindaraj, Thangavelu Prabha.

## **PUBLICATIONS**

### **INTERNATIONAL JOURNALS:**

1. Antioxidant activity in some selected Indian medicinal plants. Sudharshana deepa. V, Suresh Kumar P, Latha.S, Selvamani.P, Sucheta.S. African Journal of Biotechnology. 2008, 7(12): 1826-28. (Impact factor: 0.5)



2. Evaluation of antidandruff activity using polyherbal oil from six medicinal plants. Sudharshana deepa. V, Suresh Kumar P, Latha.S, Selvamani.P, Sucheta.S. African Journal of Biotechnology. 2008, 136S: S402-S-459 V4-Y-008. (Impact factor: 0.5)
3. Formulation development and evaluation of metronidazole magnetic nanosuspension as a magnetic targeted and polymeric controlled drug delivery system with improved therapeutic properties. Selvamani.P, Latha.S, Senthilkumar C, Sharavanan S.P, Suganya. G, Vijendar Singh Beniwal and Rama Rao. P. Journal of Magnetism and Magnetic Materials. 2009, 321(10): 1580-1585. (Impact factor: 1.204)
4. Antioxidant studies on the ethanolic extract of Commiphora spp. Latha.S, Sureshkumar.P, Srinivasan.S, Sudharshana Deepa. V, Selvamani.P. African Journal of Biotechnology. 2009, 8(8): 1630-1636. (Impact factor: 0.5)
5. Anthelmintic activity of Heliotropium zeylanicum and Capparis sepiaria L. Selvamani.P, Latha.S, Gupta.J.K. and Pal.T.K. Asian Journal of Chemistry. 2009, 21(7): 5780-5782. (Impact factor: 0.4)
6. Capparis sepiaria Linn - Pharmacognostical standardization and toxicity profile with chemical compounds identification (GC-MS). Rajesh. P, Latha.S, Selvamani.P, Rajesh Kannan. V. International Journal of Phytomedicine. 2010, 2: 71-79.
7. Hepatoprotective activity on Commiphora species. And its polyherbal formulation. Balamurugan.B, Rajesh.P, Selvamani.P, Latha.S. International Journal of Biological and Biomedical Research. 2010, 1(3): 30-35.
8. HPTLC Method for quantitative determination of Granisetron hydrochloride in bulk drug and in tablets. S.Lakshmana Prabu, P.Selvamani, S.Latha. Latin American Journal of Pharmacy. 2010, 29(8):1455-1458.
9. Rapid drug screening of Celosia polygonoids Juss (Amaranthaceae) by using TLC, HPTLC and GC-MS. R.Sakthi, R.Anu, R.ManjuParkavi, P.Selvamani, S.Latha and P.Rajesh. International Journal of Medicobiological Research. 2010, 1(2): 90-97.
10. Formulation Development and Comparison in Evaluation of Transdermal Drug Delivery system for Antiemetic therapy. P.Selvamani, S.Latha, C.Thirunavukkarasu and R.Kadambavadani. International Journal of Research in Pharmaceutical and Biomedical Sciences. 2011, 2(2): 525-528.
11. Formulation and Evaluation of Matrix diffusion controlled transdermal patches of Domperidone hydrochloride. P.Selvamani, S.Latha, S.Lakshmana Prabu, P.Santosh Kumar, T.K.Pal. Ars Pharamceutica. 2011, 52(1): 31-36.
12. Antioxidant and antibacterial activities of bark extracts from Commiphora berryi and Commiphora caudata. Palanisamy Selvamani, Subbiah Latha, Venkatachalam Sesha Giri, Joydeep Mukherjee, Debkumar Nandi, Arumugam Meyyappan, Ramesh Kumar, and Parasuram Jaisankar. Natural Product Research. 2011,1-9. Impact factor: 0.810

13. Isolation, characterization and antibacterial evaluation on long chain fatty acids from *Limnophila polystachya* Benth. S.Kalimuthu, P.Selvamani, S.Latha, P.Rajesh. V.Balamurugan and T.M.Chandrasekar. *Asian Journal of Chemistry*. 2011, 23(2): 791-794.
14. Formulation and evaluation of curcumin loaded magnetic nanoparticles for cancer therapy. S.Latha, P.Selvamani, K.Naveenkumar, P.Ayyanar, T.Silambarasi. *International Journal of Pharmaceutical Sciences and Research*. 2012, 3(3): 477-487.
15. Formulation and evaluation of capecitabine nanoparticles for cancer therapy. S.Latha, P.Selvamani, K.Naveenkumar, P.Ayyanar, T.Silambarasi. *International Journal of Biological and Pharmaceutical Research*. 2012, 3(3): 477-487.
16. In-vitro antimicrobial evaluation of extracts, oil and fractionated geraniol of *Cymbopogon citratus* – An aromatic grass. Arputha Bibiana, P.Selvamani, S.Latha. *International Journal of Environmental Sciences*. 2012, 3(1): 583-590.
17. Antimicrobial Evaluation of the Organic Extracts of *Sargassum wightii* (Brown algae) and *Kappaphycus warezii* (Red algae) Collected from the Coast of Meemesal, Tamilnadu Selvamani.P, M.Arputha bibiana, K.Nithya, MS.Manikandan, and S.Latha. *International Journal of Pharmaceutical, Chemical and Biological Sciences*. 2012, 2(4): 439-446.
18. Preparation of Nanocomposite Hydrogels and Its in-vitro Release Behavior on Captopril. S. Latha, P. Selvamani, C. Prabu and Nantheswaran. *Asian Journal of Chemistry*. 2013, 25(13): 7211-7215.
19. Phytochemical screening and antimicrobial activity of *Tabernaemontana diversicata*, Linn extracts. P.Selvamani, S.Latha P.S.Dhivya, P.Vaishnavi. *International Research Journal of Pharmaceutical and Applied Sciences*. 2013, 3(1): 125-130.
20. Anti-Inflammatory Activity of Extracts of *Commiphora* Species and Its Polyherbal Formulation. Selvamani.P, Latha S, Dhivya PS. *International Journal of Phytopharmacology*. 2013, 4(5): 288-292.
21. Bioactive phytomolecules as potential source of Alzheimer's Disease therapy. S.Rajkumar, P.Selvamani, S.Latha. *International Journal of Phytopharmacology*. 2014, 5(5), 342-353.
22. An Approach to Alzheimer's disease Treatment with Cholinesterase Inhibitory Activity from Various Plant Species. P.S. Dhivya, M.Sobiya, P.Selvamani, S.Latha. 2014. *International Journal of PharmTech Research*. 2014, 6(5), 1450-1467.
23. Assessment of Antimicrobial Potency of *Mactra violaceae* Crude and Protein Isolates, M.Arputha bibiana, M.S.Manikandan, P.Selvamani and S.Latha. *Asian Journal of Microbiology, Biotechnology and Environmental Sciences*. 2014, 1, 59-63 (Impact Factor: 0.02).

24. Identification and Appraisal of Crude Protein Extracts from South Indian Marine Edible Bivalves for their Potential Bactericidal Property, M.Arputha bibiana, P.Selvamani and S.Latha. *Asian Journal of Pharmaceutical and Clinical Research*. 2014, 7(1), 233-236. (Impact Factor: 0.7)
25. Anticancer Potential of Triaryl Methane. C. Sherlina Daphny, P. Selvamani, S. Latha. *Asian Journal of Medical and Pharmaceutical Sciences*. 2014, 2(2), 174-178
26. Encapsulation of methotrexate loaded magnetic microcapsules for magnetic drug targeting and controlled drug release. Prabu Chakkarapani, Latha Subbiah, Selvamani Palanisamy, Arputha Bibiana, Fredrik Ahrentorp, Christian Jonasson, Christer Johansson. *Journal of Magnetism and Magnetic Materials*, 2015, 380, 285-294. (Impact Factor - 2.002)
27. Dendrimers as Solubility enhancers – A review. Bharathi R, Latha.S, Selvamani. P. 2015. *International Journal of Innovative Pharmaceutical Sciences and Research*, 3(4), 332-339.
28. Dendrimers: Multifunctional Drug Delivery Carriers. A.Stephen Prawin Kumar, S.Latha, P.Selvamani. 2015. *International Journal for Technological Research in Engineering*, 2(8), 1569-1575.
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40. In silico Alpha-Helical Structural Recognition of Temporin Antimicrobial Peptides and Its Interactions with Middle East Respiratory Syndrome-Coronavirus Marimuthu, S.K., Nagarajan, K., Perumal, S.K. et al. *Int J Pept Res Ther* (2019). DOI:10.1007/s10989-019-09951-y.
41. Screening of bioactive potential peptides from bivalves of *Donax cuneatus* and *Pitar erycina*: a peptide MOLDI-ToF-Mass fingerprinting approach. Arputha Bibiana, Subbiah Latha, Thangavelu Prabha, Palanisamy Selvamani. *International Journal of Peptide Research and Therapeutics*. 2020 Dec;26(4):2379-92.
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47. Formulation development and comparative evaluation of transdermal delivery system for effective anti-emetic therapy. Latha, S., P. Selvamani, and T. Prabha. *International journal of pharmaceutical sciences and research*, 3984-3992.
48. Development and characterisation of glucosamine sulphate magnetic nanoparticles for rheumatoid arthritis chemotherapy. Subbiah, Latha, Selvamani Palanisamy, and Deepak B. Thimiri Govinda Raj. " *Micro & Nano Letters* 15, no. 13 (2020): 954-958.
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52. Repurposing of Benzimidazole Scaffolds for HER2 Positive Breast Cancer Therapy: An In-Silico Approach. Jubie, Selvaraj, Uma Durai, Subbiah Latha, Selvaraj Ayyamperumal, Ashish Wadhvani, and Thangavelu Prabha *Current Drug Research Reviews Formerly: Current Drug Abuse Reviews* 13, no. 1 (2021): 73-83.
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Perumal, Selvamani Palanisamy, and Latha Subbiah. *Journal of Biomolecular Structure and Dynamics* (2020): 1-9.

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#### **NATIONAL JOURNALS:**

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59. Preparation and in-vitro evaluation of ranitidine hydrochloride magnetic microspheres by Emulsion-Solvent evaporation method. Latha.S, Selvamani.P and Pal.T.K. *Indian drugs*.2004, 41(6): 371-372.
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61. Diuretic activity of isolated fractions from petroleum ether extract of *Commiphora berryi*. Selvamani.P, Latha.S, Jayanta Kumar Gupta and Dhruvo Jyoti Sen. *Indian Journal of Natural Products*. 2004,20 (4): 24-25.
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64. Analgesic and anti-inflammatory activities of the leaf extracts of *Heliotropium zeylanicum* and *Cadaba indica*. Latha.S, Selvamani.P, Sen.D.J, Gupta.J.K, Pal.T.K, and Ghosh.L.K. *Drug Lines*. 2006, 8(2): 6-9.

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66. Pharmacognostical studies on leaves of *Commiphora caudata* (Wight) Arn Engl. Latha.S, Selvamani. P, Pal. T.K, Gupta. J.K. and Ghosh.L.K. *Ancient Science of Life*. 2006, 26(1,2): 19-25.
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68. Antipyretic activity of ethanolic extract of *Capparis sepiaria* L leaves. Latha.S, Selvamani.P, Sen.D.J, Gupta.J.K, Pal.T.K, and Ghosh.L.K. *Drug Lines*. 2007,9(1,2): 59-62.
69. Anti diabetic activity of ethanolic extract of *Capparis sepiaria* L leaves. Latha.S, Selvamani.P, Sen.D.J, Gupta.J.K, Pal.T.K, and Ghosh.L.K. *Indian Journal of Pharmaceutical Sciences*. 2008, 70(3): 378-380.
70. Phytochemical screening of crude extracts of *Heliotropium zeylanicum* and *Capparis sepiaria* L. Selvamani. P, Latha. S, Sen.D.J, Gupta.J.K, Pal.T.K, Suganya.G. and Ghosh. L.K. *Advanced Pharmacology and Toxicology*. 2008, 9(3): 113-116.
71. Anti-inflammatory activity of ethanolic extracts of leaves of *Capparis sepiaria* Linn. In Wistar strain rats. Rajesh.P, Selvamani.P, Latha.S, Saraswathy.A, Rajesh Kannan. V. *Electronic Journal of Pharmacology and Therapy*. 2009, 2: 45-50.
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75. A Wide array on anti-inflammatory study in an ethanolic extract of *Pupalialappaceae*Juss. (*Amaranthaceae*) by using Wistar rats. Rajesh. P, Latha.S, Selvamani P,Saraswathy. A, Thambidurai. M, Rajesh Kannan V. *Archives of Applied Science Research*. 2009, 1(2): 150-158.
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80. Comparative evaluation of antidiabetic activity of some Egyptian plants and phytochemical profile. Khaled Rashed, Palanisamy Selvamani, Subbiah Latha, Pandian Rajesh, Mandali Venkateswara Rao, Chistiane Feitosa. Indian Journal of Drugs, 2018, 6(4), 239-242. ISSN: 2348-1684.
81. Sangeetha N, Selvamani P, Latha S, Emerging trends in therapeutic peptide pharmaceuticals: Prospects and Perspectives, Journal of Drug Delivery and Therapeutics. 2019; 9(2-s):606-610 <http://dx.doi.org/10.22270/jddt.v9i2-s.2622>.
82. Magnetic nanoliposomes: a review on preparation and characterization methods. Palanisamy Selvamani, Venkata Krishnan Pari, Rosi Rajamanickam, Subbiah Latha. Bulletin of Pharmaceutical Research 2021;11(1-3):174. <http://dx.doi.org/10.21276/bpr.2021.11.3>
83. Sangeeta Mukhi, Anindya Bose, Dilip Kumar Das, Sitansu Kumar Panda, Debahuti Mohapatra, S. Latha, Ashok Kumar Balaraman. Acute and Sub-acute Toxicity study of Amrtadi Churna. Research Journal of Pharmacy and Technology. 2021; 14(6):3111-8. doi: 10.52711/0974-360X.2021.00543

## SOFTWARES

- Rx Analyser – Prescription evaluation software was developed by my students to identify possible drug interactions.

## JURY/CHAIR

- Chaired the Scientific Session of the National Conference on Redesigning Pharmacy Education and Research: Contemporary issues and future strategies. held on 16<sup>th</sup> March 2014, at Sri Siddhartha Pharmacy College, Nuzvid, Andhra Pradesh.
- Chaired the Scientific Session of the 4<sup>th</sup> Annual National Convention of Association of Pharmacy Professionals. Theme: 'Industry participation in Academic intervention: Need for overall upgradation of Pharmacy Profession' organized by Invertis University held on 31<sup>st</sup> Jan 2015.



- Chaired the Scientific Session in the APP 7<sup>th</sup> Annual Convention and 2<sup>nd</sup> Indo-US conference MTCCFSPST "Modern Trends, Current Challenges and Future Scenario of Pharmaceutical Sciences and Technology" at Vels University Campus, Pallavaram, Chennai on 27<sup>th</sup> July 2018.

#### INVITED PRESENTATIONS

- Delivered a lecture on "**Applications of Magnetism in Drug Delivery**" in the National Level Technical Symposium on Recent Trends in Biotechnology and its Applications on 8<sup>th</sup> April 2006 in the Department of Biotechnology, Pavendar Bharathidasan College of Engineering and Technology, Tiruchirappalli – 620024.
- Delivered a lecture on "**Magnetic Nanotechnology and its applications in Drug Delivery**" in the National Level Technical Symposium on Emerging Trends in Biotechnology on 18<sup>th</sup> March 2009 in the Department of Biotechnology, Pavendar Bharathidasan College of Engineering and Technology, Tiruchirappalli – 620024.
- Delivered a lecture on "**Implementation of Nanotechnology in Food Processing**" in the National Level Technical Symposium on Emerging Trends in Biotechnology on 26<sup>th</sup> March 2012 in the Department of Biotechnology, Pavendar Bharathidasan College of Engineering and Technology, Tiruchirappalli – 620024.
- Delivered a lecture on "**Formulation of Polyherbal Tablets and its Antiulcer Activity Evaluation**" (APP) in the 3<sup>rd</sup> Annual National Convention held on 18<sup>th</sup> January 2014 held at the Faculty of Pharmacy, Dharm Singh Desai University, Nadiad, Gujarat, India
- Delivered a lecture on "**Magnetic Nanoparticles for Drug Delivery**" in the ICAR sponsored Centre for Advanced Faculty Training on 'Development and nanosizing of biotechnological products for fisheries and aquaculture', Central Institute of Fisheries Education, Mumbai on 14.02.2014.
- Delivered a lecture on "**Cancer Drug Discovery**" in the UGC sponsored "National Seminar on Cancer Biology: Drug Discovery and Novel Therapeutics" at SBK College, Arupukottai – 626101 on 23<sup>rd</sup> January, 2015.
- Delivered a lecture on "**Magnetic Drug Delivery Systems: An Overview**" invited to deliver a special lecture in the APP Annual National Convention held on 31.01.2015 at Invertis University, Bareilly, UP.
- Delivered a lecture on "**Drug Dosage forms to Intelligent Drug Delivery Systems: Transition through Technology**" on 21.09.2015 at **Technical Universität, Ilmenau, Germany.**
- Delivered a lecture on "**Drug Dosage form to Intelligent Drug Delivery Systems: Transition through Technology**" in the Refresher Course on Laboratory Techniques in Clinical Biochemistry on 13<sup>th</sup> February 2016 organised by Jeppiaar Engineering College, Chennai scheduled on 13.2.2016 (10-15<sup>th</sup> Feb, 2016).
- Delivered a lecture on "**Novel Drug Delivery Systems: Magnetic Drug Delivery**" in the Workshop on "Emerging Trends and Innovations in Drug Delivery" organised by Vijaya Institute of Pharmaceutical Sciences for Women, Vijayawada scheduled on 18.03.2016.

- Delivered an invited lecture on **“Drug Delivery”** at the Department of Biotechnology, Ayya Nadar Janaki Ammal College, Sivakasi on 01.11.2016.

#### **SEMINARS ORGANISED**

1. Member in the organizing committee of National level conference on **“Current trends in orienting students towards industrial projects”** held on 23-25<sup>th</sup> February. 2004, at School of Engineering and Technology, Bharathidasan University, Tiruchirappalli – 620 024, Tamil Nadu.
2. Member in the organizing committee of National Level Technical Symposium on **“Pharma Innovations”** held on 24<sup>th</sup> January 2006, at School of Engineering and Technology, Bharathidasan University, Tiruchirappalli – 620 024, Tamil Nadu.
3. Member in the organizing committee of National Level Technical Symposium on **“Contract Research and Patent Rights”** held on 24<sup>th</sup> February 2006, at School of Engineering and Technology, Bharathidasan University, Tiruchirappalli – 620 024, Tamil Nadu.
4. Organized an International level **“E-Symposium on Pharmaceutical Engineering – An Insight into Latest Developments”** held on 3<sup>rd</sup> March 2006, at School of Engineering and Technology, Bharathidasan University, Tiruchirappalli – 620 024, Tamil Nadu.
5. Member in the organizing committee of International level **“Theoretical Chemistry Symposium”** held on 11-13<sup>th</sup> December 2006, at Department of Chemistry, Bharathidasan University, Tiruchirappalli – 620 024, Tamil Nadu.
6. Member in the organizing committee of National Level Technical Symposium on **“Exploring the research platform for pharmaceutical product and process development”** held on 15-16<sup>th</sup> March 2008, at Anna University Tiruchirappalli, Tiruchirappalli – 620 024, Tamil Nadu.
7. Organized an International Seminar and Workshop on **“Medical and Pharmaceutical Nanotechnology”** “held on 25-26<sup>th</sup> September 2008, Anna University Tiruchirappalli, Tiruchirappalli – 620 024, Tamil Nadu.
8. Member in the organizing committee of National Level Conference on **“Recent Trends and Applications of Nanotechnology in Pharmacy and Biology”** held on 21-22<sup>nd</sup> January 2010, at Anna University Tiruchirappalli, Tiruchirappalli – 620 024, Tamil Nadu.
9. Task Committee Member in the **International Congress of Pharmacy Graduates Association** held on 6-7<sup>th</sup> October, 2012 at Chettinad Health City, Kelambakkam, Chennai.
10. Convener of the **Nanobio Collaborative International Conference** held on 27-29 June, 2013, at Anna University, Bharathidasan Institute of Technology Campus, Tiruchirappalli – 620024 in association with University of South Florida and Mother Teresa Women’s University, Kodaikanal.
11. Organized a Faculty Development Program on **'Multidisciplinary Perspectives For Pharmaceutical, Life Science Educators And Researchers'** held on 9 – 15<sup>th</sup> December, 2013 at Anna University, Bharathidasan Institute of Technology Campus, Tiruchirappalli – 620024
12. Organized a National Conference on **“National Conference on Advances in Drug Design Discovery and Development”** held on July 24 – 25<sup>th</sup> 2014 at Anna University, Bharathidasan Institute of Technology Campus, Tiruchirappalli – 620024
13. Member in the organizing committee of the DST and TEQIP II sponsored **“National Conference on Recent Strategies in Herbal Research – An Experimental Approach”**

organized by Department of Pharmaceutical Technology, Anna University, BIT campus, Tiruchirappalli on 19-20<sup>th</sup> Sep 2014.

14. Organized a “**International Conference on Innovations and Future Research Dimensions on Nanobio Pharmaceutical Technology**” held on October 7 – 8<sup>th</sup> 2014 at Anna University, Bharathidasan Institute of Technology Campus, Tiruchirappalli – 620024.
15. Organizing Committee Member in the **APP sponsored National Symposium on Novel Trends and Challenges in Drug Design, Discovery and Development** held on 3<sup>rd</sup> December, 2014 at Mother Teresa College of Pharmacy, Ghatkesar, Hyderabad.
16. Member in the organizing committee of the **4<sup>th</sup> Annual National Convention of Association of Pharmacy Professionals**. Theme: ‘Industry participation in Academic intervention: Need for overall upgradation of Pharmacy Profession’ organized by Invertis University held on 31<sup>st</sup> Jan 2015.
17. Organizing secretary for the **5<sup>th</sup> Annual International Convention of Association of Pharmacy Professionals**. Theme: Redefining Pharmacy Education and Regulation for Translational Drug Research in India held on January 22-23<sup>rd</sup>, 2016 at Anna University, Bharathidasan Institute of Technology Campus, Tiruchirappalli – 620024
18. Advisor and Scientific Committee Member for the **International Conclave for the Advancements in Bio, Chemical and Pharmaceutical Technologies** held on 6-8<sup>th</sup> March, 2019 at PABCET, Tiruchirappalli.

#### TEACHING AND MENTORING

POST DOCS: 1

DOCTORAL SCHOLARS: 1 (Completed), 2 – (Ongoing)

MASTERS STUDENTS: 42

BACHELORS STUDENTS: 35

#### PROFESSIONAL BODIES

- The Association of Pharmaceutical Teachers of India – TN/LM/262
- The Indian Pharmacists Association – TN 427
- Indian Society of Pharmacognosy – Life Member
- Indian Pharmaceutical Graduates Association –LM/2091
- Tamil Nadu Pharmacy Council – 17330/A2
- Indian Biophysical Society – 575
- Association of Pharmacy Professionals – APP/TN/LM-003/13
- Indian Society for Technical Education – Life Member

#### ACADEMIC TRIPS ABROAD

S. No.	Year	Country	Purpose
1.	01.04.2019 – 31.07.2019	Yokohama National University, <b>JAPAN</b>	Research Fellowship sponsored by Matsumae International Foundation, Japan.
2.	22.05.2018 – 26.05.2018	Copenhagen, <b>DENMARK</b>	Presented research articles in the 12th International Conference on the Scientific and Clinical Applications of Magnetic Carriers, Copenhagen, Denmark.

			<ul style="list-style-type: none"> <li>• Chitosan-Polyvinyl alcohol-based pH-sensitive ferrogel beads for magnetically localized mucoadhesive controlled drug delivery in GI tract.</li> <li>• Preparation and evaluation of magnetoliposomes co-encapsulated with herbal extracts for magnetic targeted therapy of breast cancer</li> <li>• Polyvinyl alcohol-based ferrogel system for magnetic field guided acid triggered delivery of omeprazole</li> </ul>
3.	19.11.2016 – 28.11.2016	Technical University, Ilmenau, <b>GERMANY</b>	Collaborative Research under the DST-DAAD Indo-German Project Based Personnel Exchange Program <b>Collaborators: Dr.Silvio Dutz, Andreas Weidner,</b> Technische Universität Ilmenau, Ilmenau, Germany
4.	31.05.2016 – 04.06.2016	Vancouver, <b>CANADA</b>	Presented research articles in the 11th International Conference on the Scientific and Clinical Applications of Magnetic Carriers held at Vancouver, Canada. <ul style="list-style-type: none"> <li>• Gemcitabine Loaded Magnetic Nanoparticles for Magnetically Triggered Thermo-Chemo Therapy.</li> <li>• Layer-by-layer assembled prednisolone magnetic microcapsules (PMC) assisted controlled and targeted drug release at rheumatoid arthritic joints.</li> </ul>
5.	15.09.2015 – 25.09.2015	Technical University, Ilmenau, <b>GERMANY</b>	Collaborative Research under the DST-DAAD Indo-German Project Based Personnel Exchange Program <b>Collaborators: Dr.Silvio Dutz, Andreas Weidner,</b> Technische Universität Ilmenau, Ilmenau, Germany
6.	10.06.2014 – 14.06.2014	Dresden, <b>GERMANY</b>	Presented research articles in the 10 <sup>th</sup> International Conference on the Scientific and Clinical applications of magnetic carriers. Dresden, Germany. <ul style="list-style-type: none"> <li>• Encapsulation of methotrexate magnetic microcapsules for targeted rheumatoid arthritis therapy.</li> <li>• Formulation optimization and evaluation of prednisolone loaded magnetic shells.</li> </ul>
7.	28.11.2007 – 29.11.2007	London, <b>UNITED KINGDOM</b>	Presented research articles in the International conference on Investing in Medical Nanotechnologies – II. <ul style="list-style-type: none"> <li>• Formulation development and evaluation of Sucralfate Magnetic Nanosuspension as a novel magnetic targeted drug delivery system</li> </ul>

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for ulcer therapy – A preliminary study.

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8. 20.05.2004 – Lyon, **FRANCE** Presented research articles in the 5<sup>th</sup> International  
22.05.2004 conference on the scientific and clinical applications  
of magnetic carriers Lyon, France.
- Formulation and evaluation of ranitidine hydrochloride magnetic microspheres.
- 

### PROFESSIONAL ACTIVITIES

❖ Nominated as President, Association of Pharmacy Professionals, Tiruchirappalli, Tamil Nadu State Branch. (Since 27.07.2018 till date)

### REFERENCES

Prof.T.K.Pal  
Director, Bioequivalence Study Centre  
Jadavpur University, Kolkata, West Bengal. PIN – 700032  
Email: [proftkpal@gmail.com](mailto:proftkpal@gmail.com)

Prof.L.K.Ghosh  
Department of Pharmaceutical Technology  
Jadavpur University, Kolkata, West Bengal. PIN – 700032  
Email: [lkgghosh@rediffmail.com](mailto:lkgghosh@rediffmail.com)

### DECLARATION

All information in this resume is true and correct to the best of my knowledge and belief.

**Date: 16.02.2022**

**Place: Tiruchirappalli, TN.**

**Signature**