

Dr. TRAPTI SAXENA, M. Pharm, Ph.D

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PROFESSIONAL SUMMARY

- Dedicated, resourceful and motivating professional driven to inspire students to pursue academic and personal excellence.
- An experienced Pharmaceutical Professional with **over Seventeen years of progressive experience** in Pharmaceutical Research and Academics.
- Research Interests: Development and characterization of novel drug delivery systems, novel mucoadhesive PEGylated microspheres based drug delivery systems, development and in vivo performance of SNEDDS of various poorly water soluble drugs and design and characterization of transdermal drug delivery systems.
- Guided over **Twenty Five M. Pharm students** in various research topics from core areas of research; Self-emulsifying drug delivery systems (SEDDS); Solubility Enhancement approaches for BCS Class II Drugs; Mucoadhesive delivery of drugs etc.
- Served as **Academic coordinator** for B Pharm and M Pharm courses
- Successfully handled **NBA, PCI and University Inspections**
- Served as resource person in **Industry Institute Partnership Cell (IIPC)** of previous institution

EDUCATION & CREDENTIALS

- **Post graduate Diploma in Drug Regulatory Affairs** • 2021 (Persuing) • Global Institute of Regulatory Affairs, Pune, Maharashtra
- **Doctoral Of Philosophy (Ph. D)** • 2016 • JNT University, Hyderabad (TS) India
TITLE: "Preparation and Evaluation of Self – Emulsifying Drug Delivery System for Lipophilic Drugs" under the supervision of **Dr. C.V.S. Subrahmanyam**
- **Master of Pharmacy (Pharmaceutics)** • 2003 • Dr. H.S. Gour University, Sagar (MP) India • **72.89%**
✓ *Secured 3rd rank in the university*

Undertaken a Major project titled "Novel Approaches in Mucoadhesive Microspheres based Dual Drug Delivery Systems for the Treatment of *Helicobacter Pylori*" under supervision of **Dr. N.K. Jain**

- **Bachelor of Pharmacy** • 2001 • Dr. H.S. Gour University, Sagar (MP) India • **68.7%**
- **Senior Secondary** • 1995 • Vidyalaya Vishwabharti, Sagar (MP), India (MP board) • **79.9%**
 - ✓ *Sagar District Topper*
- **Higher Secondary** • 1993 • Vidyalaya Vishwabharti, Sagar (M.P.), India (MP board) • **88.0%**
 - ✓ *Secured 20th rank in the State Merit List*

PROFESSIONAL EXPERIENCE

- **G. Pulla Reddy College of Pharmacy**
 - ASSOCIATE PROFESSOR – Pharmaceutics and RA April 2022–till date
- **G. Pulla Reddy College of Pharmacy**
 - ASSOCIATE PROFESSOR (Visiting) – Pharmaceutics and RA Dec 2021–March 2022
- **School of Pharmacy, Sharda University, Greater Noida, UP**
 - ASSOCIATE PROFESSOR – Pharmaceutics August 2020 – May 2021
- **Gokaraju Rangaraju College of Pharmacy, Hyderabad, TS**
 - ASSOCIATE PROFESSOR – Pharmaceutics April 2016 – March 2019
 - SENIOR ASSISTANT PROFESSOR – Pharmaceutics June 2010 – April 2016
 - ASSISTANT PROFESSOR – Pharmaceutics February 2007 – May 2010
- **Technocrats Institute of Technology College of Pharmacy, Bhopal, MP**
 - ASSISTANT PROFESSOR – Pharmaceutics April 2004 – Dec 2006
- **Mahakaal Institute of Pharmacy, Ujjain, MP**
 - LECTURER – Pharmaceutics June 2003 – March 2004

PROJECTS UNDERTAKEN

- Novel Approaches in Mucoadhesive Microspheres based Dual Drug Delivery Systems for the Treatment of *Helicobacter Pylori* in M. Pharm.
- Novel Approaches in Vaccines in B. Pharm.
- **Vocational Training (six months)** - General study of Production and Quality Control departments of Formulation Division at **IPCA laboratories**, Ratlam, India

SUBJECT EXPERTISE

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|-----------------------------------|-----------------------------|
| ✓ Novel drug delivery systems | ✓ Research methodology |
| ✓ Intellectual property rights | ✓ Pharmaceutical technology |
| ✓ Advanced physical pharmaceutics | ✓ Cosmetic technology |
| ✓ Regulatory affairs | ✓ Physical pharmacy |
| ✓ Cosmetics & Cosmeceuticals | ✓ Industrial pharmacy |
| ✓ Pharmaceutical Engineering | ✓ Quality assurance |

WORKSHOPS AND CONFERENCES

- Participated as a **resource person** in National Seminar on 'Spring and Parachute Technologies for Oral Bioavailability Enhancement of BCS Class II Drugs' in 2015 at Gokaraju Rangaraju College of Pharmacy, Hyderabad.
- Participated in technical festival under **Industry Institute Partnership Cell (IIPC)** in 'PharmTechFest-2014' at Gokaraju Rangaraju College of Pharmacy, Hyderabad
- Presented paper in International Conference 'Pharmacognosy'13' by Omics groups, Hyderabad
- Presented paper in National Conference 'Pharma Innovate'13', Hyderabad
- Presented poster in National Conference on Reforms and innovations in pharmacy education towards global standards, RIPE-2012, JNTU, Hyderabad
- Presented paper in International Conference on "Progress and Advances in Human Health management and Healthcare Reforms- Adicon 2014" at Sagar MP

- Presented POSTER in 'National seminar 2013' on Drug targeting for therapeutic benefits, Sagar MP
- Participated in national level workshop on "Hands on Training on Optimization Techniques in Pharmaceutical Formulations" during 24th to 26th February 2011 at Gokaraju Rangaraju College of Pharmacy, Hyderabad
- Presented paper in 15th Annual National Convention of APTI-2010
- Attended 54th Indian Pharmaceutical Congress (IPC)-2002, Pune, India
- Attended 52nd Indian Pharmaceutical Congress (IPC)-2000, Indore, India
- Attended 66th Indian Pharmaceutical Congress (IPC)-2015, Hyderabad, India
- Participated in international conference BioAsia 2017: The Global Business Forum, in February 2017 at Hyderabad International Convention Center, Hyderabad
- Participated in workshop 'Intellectual Property Rights for Innovative Entrepreneurship' organized by National Institute for Micro, Small and Medium Enterprises (ni-msme) in April 2017 at Hyderabad
- Participated in PCI sponsored Continuing Education Programme (CEP) in September 2018 at Sultan Ul Uloom College of Pharmacy, Hyderabad.
- Participated in workshop on the topic "Teacher as an Influencer- Moving from Good to Great" in December 2018 at TASK office, Hyderabad.

FACULTY DEVELOPMENT PROGRAMS

- Participated in national level workshop on "Hands on Training on Optimization Techniques in Pharmaceutical Formulations" during 24th to 26th February 2011 at Gokaraju Rangaraju College of Pharmacy, Hyderabad
- Participated in AICTE sponsored faculty development program on "Current Trends in Pharmaceutical Production Development including Regulatory Aspects" in August 2013 at Gokaraju Rangaraju college of Pharmacy
- Attended UGC Sponsored **short term course** on "Formulation and Development of Nano Particles – Application to Pharma Industry" in August 2015 at JNTU, Hyderabad

- Successfully completed **Foundation Program in ICT for Education**, conducted by Indian Institute of Technology (IIT) Mumbai in September 2017.
- Successfully completed **“Pedagogy for Online and Blended Teaching-Learning Process”** conducted by Indian Institute of Technology (IIT) Mumbai in November 2017.
- Participated in PCI sponsored **Continuing Education Programme (CEP)** on 10th to 12th September 2018 at Sultan Ul Uloom College of Pharmacy, Hyderabad.
- Participated in FDP on Dec 18th & 19th December 2018, on the topic, “Teacher as an Influencer” - Moving from Good to Great at TASK office, Hyderabad.
- 5 days FDP (International Webinars) on emerging trends in Pharmaceutical Sciences: Classroom to online on 9th to 13th June 2020, organized by School of Pharmacy, Sharda University, UP
- 5 Days FDP on Outcome- based Learning from 16th to 20th September, 2020 at Sharda University, UP

PRESENTATIONS

- Presented paper in 15th Annual National Convention of APTI-2010
- Presented poster in national conference RIPE-2012 organized by Centre for Pharmaceutical Sciences JNTU, Hyderabad
- Presented paper on Self microemulsifying drug delivery system of Itraconazole: preparation and evaluation in national conference “Innovate-13” at Pulla Reddy Institute of Pharmacy Hyderabad
- Presented paper on Preparation and evaluation of Self – microemulsifying drug delivery system of itraconazole at **International Conference** on Pharmacognosy, phytochemistry and natural products by Omics group, Hyderabad
- Presented paper on Preparation and evaluation of solid self-microemulsifying drug delivery system of efavirenz at **International Conference** on “Progress and advances in human health management and healthcare reforms – Adicon 2014” at Sagar MP

- Presented poster on preparation and evaluation of mucoadhesive microspheres for the treatment of *H pylori* infection in National Seminar on 'Drug Targeting for Therapeutic Benefits' at Sagar MP

• PUBLICATIONS

- Paper published entitled "*Development of mucoadhesive microspheres of levofloxacin for the treatment of h. Pylori infection*" in Journal of Drug Delivery & Therapeutics. 2016; 6(1):34-45. Impact factor: 0.675
- Paper published entitled "*A Novel Self Micro-Emulsifying Drug Delivery System (SMEDDS) for Pitavastatin: Development and Evaluation*" in International Journal of Pharmaceutics, 2014, ISSN: 2051-5782, 30(2), 1189-1197. Impact factor: 1.94
- Paper published entitled "*Development and evaluation of self nano-emulsifying drug delivery system (SNEDDS) for bioavailability enhancement of itraconazole*" in International Journal of Pharmaceutics, 2014, ISSN: 2051-5782, 30(1), 1165-1173. Impact factor: 1.94
- Paper published entitled "*Preparation and evaluation of Self – microemulsifying drug delivery system of itraconazole*" in Biochemistry and Pharmacology: Open Access, ISSN: 2167-0501, 2013, 2(4), 77-83.
- Paper accepted entitled "*Pharmaceutical cocrystals of posaconazole for improvement of physicochemical properties*" in Brazilian Journal of Pharmaceutical Sciences. Impact factor: 0.512. Scopus indexed
- Paper accepted entitled "*Nanocarrier based intranasal drug delivery system for the treatment of Neurodegenerative disorder (Parkinson's Disease)*" in International Journal of Drug Delivery Technology. Impact factor: 1.529. UGC Approved Journal
- Paper communicated entitled "*Formulation and in vivo evaluation of solid self micro-emulsifying drug delivery system of Pitavastatin*" in Turkish Journal of Pharmaceutical Sciences. Impact factor: 0.44. Scopus indexed
- Paper communicated entitled "*Development and in vivo evaluation of SNEDDS of Itraconazole*" in International Journal of Applied Pharmaceutics. Impact factor: 0.96. Scopus indexed

- Paper communicated entitled '*Design of transdermal patches of Granisetron by full factorial design for supportive therapy in cancer patients*' in International Journal of Applied Pharmaceutics. Impact factor: 0.96. Scopus indexed
- Paper communicated entitled '*formulation, evaluation and full factorial design based optimization of levofloxacin microspheres for colon targeting*' Indian Journal of Pharmaceutical Sciences. Impact factor: 0.73. Scopus indexed
- Paper communicated entitled '*Development and evaluation of Solid SNEDDS of Paliperidone*' in Brazilian Journal of Pharmaceutical Sciences. Impact factor: 0.512. Scopus indexed
- Chapter communicated to publish entitled '*Self Microemulsifying Drug Delivery Systems: For Oral Delivery of Lipophilic Drugs*' in Advancement in Carrier-based Drug Delivery, II Edition. (Woodhead Publishing Series in Biomedicine), Oxford, UK.
- Paper communicated entitled "Formulation ingredients, Methods and Characterization of Self nanoemulsifying drug delivery systems: A review" in AAPS PharmSciTech. Impact factor: 2.06.

M.PHARM PROJECT STUDENTS GUIDED

*Guided over **twenty five** M. Pharmacy/ M.Tech Students for their project work from Pharmaceutics and Industrial Pharmacy specialization.*

- Preparation and evaluation of self microemulsifying drug delivery system of *Voriconazole*
- Preparation and *in vivo* evaluation of self-nanoemulsifying drug delivery system of *Itraconazole*
- Development and evaluation of solid self microemulsifying drug delivery system of *Itraconazole* using Maisine.
- Preparation and evaluation of solid self microemulsifying drug delivery system of *Efavirenz*.
- Development and *in vivo* evaluation of solid self microemulsifying drug delivery system of BCS class II antilipidemic drug.
- Solid self microemulsifying drug delivery system of *Pioglitazole*: Preparation and evaluation.
- Preparation and evaluation of solid SMEDDS of *Fenofibrate*.

- Development and characterization of solid self microemulsifying drug delivery system of *Telmisartan*.
- Development and evaluation of mucoadhesive microspheres of Levofloxacin for the treatment of *H. Pylori* infection.
- Preparation and evaluation of solid self microemulsifying drug delivery system of *Simvastatin*.
- Optimization, development and evaluation of transdermal patches for *Granisetron*.
- Gastroretentive mucoadhesive microspheres of *Ranitidine*: Optimization, development and characterization.
- Optimization, development and evaluation of *Levofloxacin* microspheres for colon targeting.
- Nanocarrier based intranasal drug delivery system for the treatment of neurodegenerative disorder (parkinson's disease)
- Role and effect of liposomal drug delivery system in the treatment of cancer
- An overview on depot drug delivery system, their classification along with advantages and drawbacks

FELLOWSHIPS

- ✓ Awarded **Junior Fellowship by University Grants Commission**, Ministry of Human Resources, Government of India, Sept 2001 - Feb 2003

MEMBERSHIPS OF NATIONAL SOCIETIES:

- ✓ Lifetime membership for APTI (AP / LM-655)
- ✓ Lifetime Membership Pharmacy council of India (FID No.- GRHLEC000020)

ACADEMIC ACHIEVEMENTS

- ✓ **Qualified GATE - 2001** examination with 90.13 percentile score
- ✓ **1st prize for best oral presentation** at Pharma Innovate'13, Hyderabad
- ✓ M. Pharm, **3rd rank in university**
- ✓ Senior Secondary, 2nd rank, Sagar **District Topper**
- ✓ Higher Secondary, 20th in the **State Merit List**
- ✓ Member of Recruitment committee, SOP, Sharda University

PROFESSIONAL ACHIEVEMENTS

- ✓ Served as **Academic coordinator** for B Pharm and M Pharm course in GRCP, Hyderabad (2016-March 2019)
- ✓ **Ratified Associate Professor** through Osmania University, Hyderabad, Telangana
- ✓ **Website in-charge** for college website
- ✓ Resource person in **Industry Institute Partnership Cell (IIPC)**
- ✓ Member of Institutional Development and Monitoring Committee, Member of Anti-ragging Committee, Member of Cultural Committee – GRCP
- ✓ Successfully handled **NBA, PCI and University Inspections**

PERSONAL PROFILE

- Date of Birth 06th September 1977
- Marital status Married
- Languages Known English, Hindi

REFERENCES

- **Dr. C. V. S. Subrahmanyam**, Director
Gokaraju Rangaraju College of Pharmacy, Hyderabad (TS) INDIA
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- **Dr. N. K. Jain**, Director, Rtd.
Dept. of Pharmaceutical Sciences, Dr. Hari Singh Gour University, Sagar (MP) INDIA
Tel: +91 7582 264712
- **Dr. G. Dharma Data**, Director (FAC), Rtd.
Drugs Control Administration, Government of Andhra Pradesh, Hyderabad (TS) INDIA
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