

Lakshmi Usha Ayalasonmayajula

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OBJECTIVE: -

To obtain a challenging and demanding job that will further enhance knowledge and skills. To reach highest peak in professional excellence through constant endeavour by investing skills, experience and expertise within the organization.

WORK EXPERIENCE: -

- Working as an Assoc Professor in department of PHARMACEUTICS at Raghu College of Pharmacy from November 2022 till date.
- Worked as an Asst. Professor in department of PHARMACEUTICS at Maharajah's College of Pharmacy from January 2013 to November 2022.
- Expertise in teaching PHARMACEUTICS, PHARMACEUTICAL ENGINEERING, PHYSICAL PHARMACY and BIOPHARMACEUTICS AND PHARMACOKINETICS.

EDUCATION: -

DEGREE / COURSE	University / Organization	Year Of Passing
PhD	Centurion University, Rayagada	Registered in 2020
Master of Science in Pharmacy (Pharmaceutics)	Sri Venkateswara College of Pharmacy, Andhra University	November, 2012
Bachelor of Science in Pharmacy	Sri Venkateswara College of Pharmacy, Andhra University	April, 2009
Intermediate	Board of Intermediate Education, Andhra Pradesh	March, 2005
SSC and High School (ICSE)	Indian Certificate Secondary Examination	March, 2003

PROJECT :-(M. Pharm)

- Worked on preparation and evaluation **ORO-DISPERSABLE TABLETS of ETORICOXIB** using various Super disintegrants.

INDUSTRIAL TRAINING :-(B. Pharm)

- Has undergone training for a period of 30 days as per the B. Pharmacy curriculum.

RESEARCH WORK GUIDED: -

- Enhancement of solubility and effects of Granulation method on drug release in Sustained release tablets of Domperidone
- Development and Characterization of Gastroretentive floating tablets of an antidepressant drug by MELT GRANULATION technique”.
- Preparation and Evaluation of Indomethacin Microspheres Using ION GELATION technique.
- Preparation and Evaluation of Gliclazide Microspheres Using ION GELATION technique.

RESEARCH PUBLICATIONS: -

- Enhancement of Solubility and effect of Granulation methods on drug release in sustained release matrix tablets of a poorly soluble drug. Research Journal of Pharmacy and Technology, 2021; 14 (1), 195-201. **Scopus indexed.**
- Formulation, characterisation and in vitro dissolution studies of gastroretentive floating tablets by melt granulation technique. IJBPAS, March, 2021, 10(3): 795-808. **Web of Science indexed.**
- Development and Characterization of Gastroretentive Floating Tablets of Venlafaxine Hydrochloride by Thermoplastic Granulation Technique.2021. Research Journal of Pharmacy and Life Sciences: Volume 2 (2), 85-99.
- Effect of Granulation Methods on Drug Release Studies in Sustained Release Matrix Tablets of a Poorly Soluble Drug prepared using Synthetic Polymers.2020; Journal of Drug Delivery and Therapeutics 10 (3), 76-82. **UGC approved Journal.**
- Cross-Linked Chitosan Based Stomach Specific Mucoadhesive Microspheres Loaded with Amoxicillin: Preparation and ex vivo Characterization. International Journal of Pharma Investigation. 2020;10(1):59-63. **Emerging Sources Citation indexed and UGC approved.**
- Formulation and characterization of sustained release coated matrix granules of Metformin Hydrochloride. Asian Journal of Pharmaceutical and Clinical Research. 2018;11(7):387-392
- Comparison and characterization of inclusion complexes and solid dispersions in enhancement of dissolution rate of poorly water-soluble drug. International Journal of Applied Pharmaceutics. 2018; 10(5); 173-177. **Indexed in Scopus.**
- Enhancement of solubility, preparation and evaluation of immediate release tablets of poorly soluble drug Repaglinide. Journal of Global Trends in Pharmaceutical Sciences 2017;8(3):4130-4138
- Characterisation and comparison of drug release from gliclazide microcapsules prepared using natural and synthetic polymers. World journal of Pharmacy and Pharmaceutical Sciences.2017;6(9):1465-1479
- Enhancement of dissolution rate and physicochemical characterization of Irbesartan inclusion complexes using cyclodextrins. Research Journal of Pharmacy and Technology 2017;10(1):301-306. **Indexed in Scopus.**
- Formulation and characterization of Irbesartan Solid dispersions using Poly ethylene Glycols. American journal of Pharmatech Research 2016;6 (4): 426-439.
- Formulation and evaluation of fast disintegrating sublingual tablets of Rizatriptin using different Super disintegrants. World journal of Pharmaceutical Sciences 2016;4 (8): 161-170
- Formulation and evaluation of rapidly dissolving films of Zolmitriptan. International Journal of Pharmaceutical Sciences and Research. **Indexed in Scopus**

- Formulation and evaluation of Diclofenac sodium oro dispersible tablets using different Super Disintegrants by direct compression technique. Der Pharmacia Lettre 2016; 8 (8): 227-238. **Indexed in Scopus**
- Formulation and evaluation of Atenolol oro dispersable tablets by co-processed Super-disintegration process. International Journal of Innovative Pharmaceutical Sciences and Research 2016; 4 (3): 233-241.
- Formulation and Evaluation of Etoricoxib oro dispersable Tablets by Direct Compression Method. IOSR Journal of Pharmacy and Biological Sciences 2016; 11 (2): 64-72.
- Preparation and evaluation of Indomethacin microcapsules using ion Gelation Technique. International Journal of Pharmaceutical and Phytopharmacological Research 2015;5(3): 1-7 **Indexed in Scopus**

REVIEW PUBLICATIONS: -

- An update on recent advances in nanoemulsion based hydrogels: Nanoemulgels. Journal of Pharmaceutical negative results. 2023;14(2)
- Carbon dots: An updated overview on their synthesis, properties, and applications in pharmaceutical and biomedical sciences:(TJPS-2021-0008. R1)
- An Overview on Hydrophilic Three-Dimensional Networks: Hydrogels. Asian Journal of Pharmaceutical Research. 2021;11 (1), 23-28.
- Novel Approach for Producing Pharmaceuticals in Layer by Layer Fashion: Additive Manufacturing. Indo Global Journal of Pharmaceutical Sciences, 2021; 11(1): **70-75. UGC approved journal**
- An insight into delivery of drug through the skin: Transdermal drug delivery systems. Research Journal of Topical and Cosmetic Sciences. 2021; 12 (1), 4-12.
- A novel technique for intra transdermal delivery of drugs-coated polymeric needles. Research Journal of Topical and Cosmetic Sciences. 2021; 12 (1), 25.
- Review on pharmaceutical co-crystals and design strategies. Asian Journal of Pharmacy and Technology. 2021 11 (2), 175-180.
- Review on non effervescent gastro retentive drug delivery systems-microballons. Asian Journal of Pharmaceutical Research. 2020; 10 (4), 312-318.
- A novel technique for intra transdermal delivery of drugs-coated polymeric needles. Asian Journal of Pharmacy and Technology. 2020; 10 (4), 289-295.
- Techniques involved in Conversion of Powders into Granules-An Overview. Research Journal of Pharmaceutical Dosage Forms and Technology. 2020; 12 (2), 98-104
- A Review on Pharmaceutical Calculations. Research Journal of Pharmacy and Technology 2016;9(11):2043-2047
- A Review on Natural Polymers Used in Pharmaceutical Dosage Forms. International Journal of Science and Research Methodology 2016; 3 (3): 77-88.

SEMINARS AND CONFERENCES ATTENDED:-

- Attended the 68th IPC held at Andhra university, Visakhapatnam
- Attended the 69th IPC at Chitkara university, Rajpura and presented poster on Effect of Ethyl cellulose to extend the drug release of Mebevarine hydrochloride by preparing microspheres

INSTRUMENTS HANDLED:

FTIR, HPLC, Visible and UV Spectrophotometry.

CO-CURRICULAR ACTIVITIES: SOFTWARE SKILLS

OPERATING SYSTEMS	WINDOWS (2007/NT/2000/XP)
PACKAGES	Microsoft Office

PERSONAL DETAILS:-

Date of Birth	09 th May, 1987
Sex	FEMALE
Nationality	INDIAN
Location	Visakhapatnam, Andhra Pradesh
Languages Known	English, Telugu and Hindi
Contact Details	Mobile: +91 7032461993 E-Mail ID: alakshmiusha@gmail.com

HOBBIES:

- Attending seminars
- Participating in poster presentation
- Web Browsing

STRENGTHS:

- Goal Oriented.
- Work with dedication and sincere efforts in getting the desired results.
- Adaptable to any environment.

(LAKSHMI USHA AYALASOMAYAJULA)