



Faculty: Pharmacy

Department: Pharmaceutical Sciences

Name of the Supervisor: Prof. (Dr.). S. Sunitha
Designation: Professor and Dean
Department: Pharmaceutical Sciences
Faculty: Faculty of Pharmacy
Research Area Formulation developments using Novel drug delivery systems such as biodegradable nanoparticles, nanosuspension or microemulsion, nanoemulsions, transdermal drug delivery systems, solubility enhancement techniques, intranasal drug delivery systems
Keywords:



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Research

Summary:

A Pharmacy professional with 23 years of experience and specialization in teaching and research in Pharmaceutics at National and State affiliated colleges of Osmania University and JNTU- Hyderabad in Pharmaceutical Sciences. Key strengths are formulation development (NDDS), research planning and scientific writing. Have demonstrable experience in the domains of formulation development using nanosuspension, lipid delivery systems such as micro and nano-emulsions, solid lipid nanoparticles (SLN), nanostructured lipid carriers (NLCs), polymeric nanoparticles, complexations, transdermal drug delivery systems using QbD approach. Possess working knowledge of writing research proposals, executing, and scientific reporting as supported by my publications in many peer reviewed International, Elsevier, Scopus, WoS, and Sci Indexed Journals.



Name of the Supervisor: **Vijay M Khedkar**

Designation: Professor

Department: Pharmaceutical Sciences

Faculty: Pharmacy

Research Area Medicinal Chemistry, Drug Discovery, Molecular Modeling

Keywords:



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Research Summary:

A highly optimistic and proactive computational medicinal chemist with Ph.D. degree in Pharmaceutical Chemistry (Computational Medicinal Chemistry) and Post-doctoral research experience. Successful track record of executing lead identification and optimization projects by applying molecular modeling techniques.

Strengths in the field include:

- Structure-based drug design (SBDD): Virtual Screening, Molecular Docking, Structure-based Pharmacophore modeling, Receptor-dependent QSAR modeling, Molecular Dynamic Simulation, Homology Modeling.
- Ligand Based Drug Design: Descriptor-based mathematical modeling (QSAR/QSPR), Pharmacophore modeling.
- Sound Knowledge of medicinal chemistry principles & application in addressing drug design challenges.
- Synthesis and purifications of small organic molecules.
- Experience of working in close association with synthetic Medicinal/Organic Chemists & biologists to execute lead identification and optimization projects.



Name of the Supervisor:
Designation:
Department:
Faculty:
Research Area
Keywords:

Dr. Nitish Bhatia

Professor
Pharmaceutical Sciences
Pharmacy

1. Neurodegenerative Disorders
2. Stress-Induced Neurodegeneration
3. Natural Antioxidants in Wound Healing
4. Phytopharmaceuticals
5. Burn Wound Care
6. Oxidative Stress



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Google Scholar (URL):

<https://scholar.google.com/citations?user=P2WMCEMAAAAJ&hl=en>

Research Summary:

Dr. Nitish Bhatia specializes in pharmacological studies with a strong focus on neuroprotection, stress-induced neurodegeneration, and the therapeutic potential of medicinal plants. His research explores the efficacy of natural antioxidants for wound healing and the development of phytopharmaceuticals with applications in neurodegenerative conditions like Alzheimer's and Huntington's disease. With an interest in novel drug delivery systems, he has worked extensively on the protective effects of bioactive compounds against oxidative stress, burn care innovations using hydrogel technology, and the spermicidal potential of phytochemicals. Dr. Bhatia's contributions include over 50 publications, 6 patents, and numerous awards, reflecting his commitment to advancing pharmaceutical sciences and translational medicine.



Name of the Supervisor:

Dr. Om M. Bagade

Designation:

Associate Professor

Department:

Pharmaceutical Sciences

Faculty:

Pharmacy

Research Area

Particle Engineering, Nanotechnology,

Keywords:

Solubility Enhancement, Novel Drug Delivery system and Quality by Design



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Google Scholar (URL):

https://scholar.google.co.in/citations?hl=en&user=eTQ2z9EAAAAJ&view_op=list_works&authuser=2

Research Summary:

Dr. Om M. Bagade- A dynamic academician, researcher, and professional in the pharmacy field. He is a university rank holder at the UG and PG levels. He has also completed a Diploma in Intellectual Property Law from Symbiosis International University, Pune. He earned his Ph.D. from Savitribai Phule Pune University (SPPU), Maharashtra, India. Currently, he is working as an Associate Professor in Pharmaceutics Department, at Vishwakarma University, Pune, India. He has been shortlisted for an interview for the Drug Inspector post (MPSC). During his career he has manifold scholarships and rewards for his glory like McKinney (Texas), USA, FFE Philippines, White Gold Moderate award, AICTE (GATE), Sir Ratan Tata, Sir Dorabaji Tata, Mahindra and Mahindra, and Sir Jindal scholarships etc. He has a total of 15.4 years of experience in teaching and has guided more than 10 PG students. He has published more than 60 research and review articles in renowned international journals of repute with good impact factors and more than 70 research presentations at various conferences and grabbed the best research paper awards in many events. Furthermore, he has published around 06 Books, 16 Patents, and 22 Book Chapters at the National and International level of standard. Moreover, one of his research projects in pharmaceutics has been funded by BCUD, SPPU.

Name of the Supervisor: Dr. Priyanka Nilesh Karpe

Designation: Assistant Professor

Department: Pharmaceutical Sciences

Faculty: Pharmacy

Research Area

Keywords:

Analytical method development, Analytical method validation, Formulation development, Product development, Product characterization, Respiratory drug delivery system, Chronic obstructive pulmonary diseases.

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Research Summary:

Highly organized, motivated, and result-oriented Assistant Professor and Research Scientist with 9+ years of experience, including 2.5 years in academia and 7.2 years in pharmaceutical R&D centres. Expertise lies in product development with a focus on respiratory drug delivery system, including DPI, pMDIs, nasal sprays and nebulizers. Skilled in analytical method development and validation, formulation development and comprehensive product characterization under cGMP/GLP/GDP/ALCOA+ environments. Proficient in designing, implementing analytical methods and utilizing specialized equipment for inhalation product development for chronic obstructive pulmonary diseases (COPD) and other respiratory conditions.

Demonstrated ability to coordinate with cross-functional teams, partners, and clients, backed by strong communication, research, analytical and technical skills. Experienced in creating high-quality technical documents and managing projects within timelines. Possess a solid track record of contributing to the successful development of innovative pharmaceutical products while adhering to regulatory and quality standards. Driven by a passion for advancing drug delivery systems and enhancing therapeutic outcomes.

Name of the Supervisor: Dr. Makarand V. Puri
Designation: Assistant Professor
Department: Pharmaceutical Sciences
Faculty: Pharmacy
Research Area Molecular Docking, Virtual Screening, QSAR,
Keywords: Controlled Drug Release, Biodegradable Polymers, Targeted Drug Delivery

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Research

Summary:

- **Computer-Aided Drug Design (CADD):** Utilizing computational techniques such as molecular modeling, docking, virtual screening, and QSAR studies, the work aims to understand and explore the science of drug discovery. By simulating drug-target interactions, optimizing molecular structures, and predicting pharmacokinetic properties, the research contributes to the identification of novel therapeutic candidates.
- **Polymer Synthesis for Drug Delivery:** Another key area of my research is the development of polymer-based drug delivery systems, emphasizing biocompatibility, controlled release, and targeted therapy. Through the design and synthesis of advanced polymeric carriers, efforts are directed toward enhancing drug stability, bioavailability, and therapeutic efficiency while minimizing side effects.

Name of the Supervisor:

Dr. Jaymala Arun Kumawat

Designation:

Assistant Professor

Department:

Pharmaceutical Sciences

Faculty:

Pharmacy

Research Area

Pharmacology, Herbal Drugs and Herbal

Keywords:

Formulations, Animal Studies and Neurodegenerative Disorders.



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Google Scholar

<https://scholar.google.com/citations?user=m-b8FkQAAAJ&hl=en>

(URL):

Research

Summary:

My research focuses on studying herbal drugs and formulations to understand their potential benefits and ensure they are safe to use. I work to scientifically validate traditional remedies through laboratory and animal studies, aiming to connect traditional medicine with modern science. This includes identifying the active ingredients in herbs, studying how they work in the body, and developing new ways to deliver these remedies effectively.

A key part of my work involves creating and testing herbal formulations to treat various conditions like stress, inflammation, metabolic disorders, and neurological disorders such as Alzheimer's and Parkinson's disease. Using animal models, I study how these herbal remedies work, their effectiveness, and any possible side effects. I also focus on their role in protecting the brain, balancing brain chemicals, and reducing damage caused by oxidative stress and inflammation.

Additionally, I explore how combining different herbs can enhance their effects. By using traditional knowledge and modern research methods, I aim to optimize these combinations for the best results.

Through this approach, my goal is to promote the global acceptance of herbal medicines, especially for treating neurological disorders and other health problems. By ensuring these remedies are safe and effective, I hope to make natural alternatives a trusted part of modern healthcare, offering more sustainable and effective treatment options.

Name of the Supervisor: Dr. Swati S Mutha
Designation: Assistant Professor
Department: Pharmaceutical Sciences
Faculty: Pharmacy
Research Area Pharmaceutical Technology, Novel Drug
Keywords: delivery systems, Advanced
Pharmaceuticals and cosmeceuticals,
Phtopharmaceuticals



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Research Summary: Dr. Swati Mutha, Professor of Pharmaceutics at Vishwakarma University has research and teaching experience of total over 19years. Guided more than 27 M. Pharm. students for their research dissertations, her primary areas of research include conventional and novel drug delivery systems, industrial pharmacy, modified release formulations, Pharmaceutical market research and cosmetic formulations

Numerous research articles in various national and international reputed journals and publication houses, various oral and poster presentations in national and international conferences helped her build few niche skills in academic and technical research.

Receiving travel, lodging and boarding **100% grant from UCL (London, UK)** for research on ‘Novel drug delivery systems’, **PCCA (USA) Best Poster Award** in International Conference of EuPFI, **1st prize in International Conference** by DPU (Pune, India) and **Awarded in International conference** by Nirma University are her recent achievements in last 5 years. Additionally, she has received **grants from SPPU & UGC**, for her research work.

Her stupendous academic achievements like ‘**Maharashtra State Topper at D. Pharm. level**’ and ‘**Institutional Pharmaceutics Topper at M. Pharm. level**’ sure deserve to be shared herewith.

Name of the Supervisor: **Dr. Dipali Talele**
Designation: Assistant Professor
Department: Pharmaceutical Sciences
Faculty: Pharmacy
Research Area Nanotechnology, Drug Delivery Systems, Herbal
Keywords: Products, Cancer Treatment, Alzheimer's Disease
Tissue Engineering



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Google Scholar <https://scholar.google.com/citations?user=1rM0cUQAAAAJ&hl=en&oi=ao>

(URL):

Research

Summary:

Dr. Dipali Talele, Assistant Professor at Vishwakarma University, is a distinguished researcher in pharmaceutical sciences, with expertise in nanotechnology and advanced drug delivery systems. Her Ph.D. research exemplifies this expertise, showcasing cisplatin-loaded nanoparticles embedded within hyaluronic acid hydroxyapatite hydrogels for the treatment of oral cancer. Beyond cancer therapeutics, Dr. Talele has made significant strides in Alzheimer's disease research, pioneering nose-to-brain delivery systems using carboxymethyl chitosan nanoparticles. She also explores the potential of herbal ingredients in pharmaceutical and cosmeceutical formulations, integrating natural remedies with modern delivery technologies. Dr. Talele's extensive body of work includes 15 publications indexed in Scopus and Web of Science, 1 book as well as 9 book chapters. With professional experience spanning both academia and the pharmaceutical industry, including a tenure at Sun Pharmaceuticals, Dr. Talele combines theoretical innovation with practical expertise in drug formulation and quality assurance. Her research bridges the gap between conceptual advancements and real-world applications, aiming to deliver sustainable and effective solutions to complex healthcare challenges. Through academic and industrial collaborations, she continues to drive progress in pharmaceutical sciences and healthcare innovation.

Name of the Dr. Sabeena Hussain Syed
Designation: Assistant Professor
Department Pharmaceutical Sciences
Faculty Pharmacy
Research Ethnopharmacology and Natural Products
Area
Keywords:



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Google Scholar: <https://scholar.google.com/citations?user=NSEkxjEAAAAJ&hl=en&authuser=1>
Research Summary: My research area include Ethnopharmacological studies where scientific validation of traditional herbs in ailment of various diseases through preclinical studies are studied. The research also involves preparation of active extracts through bioguided fractionation and thus isolating potential phytoconstituents through various analytical techniques.

Name of the Dr. Neeta Rai
Designation: Assistant Professor
Department: Pharmaceutical Sciences
Faculty: Pharmacy
Research Area Herbal formulation, Nanotechnology, Novel drug
Keywords: delivery system, Formulation development, cosmetic formulation.



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Google Scholar: https://scholar.google.com/citations?user=GXh_yacAAAAJ&hl=en
Research Summary: Dr. Neeta Rai has expertise in various formulation developments. She is having excellent knowledge and experience in herbal and cosmetic formulations. She has also worked keenly in novel drug delivery systems. She has two Indian patents, two published books, and book chapters along with many international and national publications in reputed journals with good impact factors.

Name of the Supervisor:
Designation:
Department:
Faculty:
Research Area
Keywords:

Dr. Amrita Thakur

Assistant Professor
Pharmaceutical Sciences
Pharmacy
Nanotechnology, formulation development, solubilization techniques, herbal drug formulation, polymer studies.



LinkedIn

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https://www.linkedin.com/feed/?trk=guest_homepage-basic_nav-header-signin

Google Scholar

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<https://scholar.google.com/citations?hl=en&user=2MmDlagAAAAJ>

Research Summary:

My research integrates advancements in nanotechnology, pharmaceutical sciences, and medical diagnostics, with a focus on improving drug delivery systems and therapeutic outcomes. A significant area of my work involves the application of nanotechnology to enhance the bioavailability of poorly soluble drugs. By utilizing nanomaterials and nanocarriers, I aim to address the challenges posed by low solubility, thereby improving the dissolution rates and therapeutic efficacy of these drugs. In addition, I have investigated various solubilization techniques, such as the use of surfactants, co-solvents, and solid dispersions, to enhance the solubility and bioavailability of poorly soluble pharmaceutical compounds. This research is crucial in advancing the development of formulations for drugs with low water solubility, which represent a substantial proportion of new chemical entities in the pharmaceutical industry. My work also extends to herbal drug technology, where I focus on optimizing the extraction, standardization, and formulation processes for plant-based medicines. This research aims to unlock the full therapeutic potential of herbal compounds while ensuring their safety and efficacy for clinical application. In the realm of polymer studies, I have explored the development of biocompatible and biodegradable polymers for drug delivery and tissue engineering applications. These polymers offer controlled release and targeted delivery capabilities, contributing to more effective and personalized treatment strategies. Furthermore, I have applied deep learning techniques to medical image analysis, aiming to enhance diagnostic accuracy and efficiency. By leveraging advanced neural networks and artificial intelligence, this research seeks to improve clinical decision-making, reduce diagnostic errors, and facilitate early detection, ultimately advancing patient care and outcomes in medical imaging.