



*Innovative Research for Unmet Medical Needs*

# INSTITUTE FOR DRUG DELIVERY AND BIOMEDICAL RESEARCH



Research  
Innovation  
Entrepreneurship  
Education  
Service

[www.idbresearch.com](http://www.idbresearch.com)

## About us

Institute for Drug Delivery and Biomedical Research (IDBR) is a DSIR recognized non-profit research organization established in the year of 2013. IDBR was formed by highly motivated and renowned scientists, to conduct interdisciplinary and advanced research on innovative drug delivery and novel treatment methods. IDBR strongly intends to bridge the gap between basic and clinical sciences. IDBR aims to discover affordable healthcare solutions to address unmet medical needs and develop platform technologies that would transform the health of large section of the society. IDBR stands committed to contributing positively to well-rounded and healthy life of the patients.

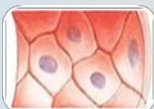
One of the major objectives of IDBR is also to provide guidance and infrastructural facilities to support active research in Academia and Industry. The research areas focused have a bench to bedside approach and are intended to improve the quality of life of patients suffering from chronic disorders.

## Our Vision

To foster innovative research in the area of drug delivery and biomedical research and to discover affordable health solutions to address unmet medical needs.

## Research Areas

- Drug Delivery Systems to Modulate ADME of Therapeutic Agents
- Biophysical Approaches for Treating Health Disorders
- Modulation of Permeability of Biological Barriers
- Physical Chemistry of Therapeutic Agents
- Skin Research
- Brain Research
- Sensory Research



## Services and Capabilities

- Physicochemical characterization of drugs, excipients and biologicals
- Development of Formulations for oral, topical and other Pharmaceutical dosage forms.
- Development of spectroscopic and chromatographic techniques for drugs, excipients and biological substances.
- Immunoassays

- Stability studies as per regulatory guidelines.
- *In vitro* Release Testing (IVRT) for oral and topical dosage forms.
- *In vitro* Permeation Testing (IVPT) - Skin, Nail, mucous membranes and cell line models.
- Pharmacokinetics studies of Pharmaceutical Drug Delivery systems.
- Micro-dialysis mediated sampling of drugs from skin, brain & synovial fluid.
- Animal models: Diabetic rat model, Acute and Chronic Wound models, Pain models, Scar model, Sunburn model
- Sensorial research of Pharmaceuticals and Cosmetics in expert panel.
- Nutraceutical research
- Microbiological testing: Sterility testing, antimicrobial assays, antifungal activity studies.
- Pyrogen testing: LAL test
- Haemocytometer: Rodent blood samples are analysed for various haematological characterization.
- Protein binding studies, DMPK studies, Biocompatibility studies, Rheological characterization, Texture analysis

## **Ph.D Program (IDBR- DSU)**

IDBR collaborated with the esteemed Dayananda Sagar University (DSU) Bengaluru, to participate in their interdisciplinary and dynamic Ph.D program. The students can register with one of the IDBR team members and pursue their research at IDBR and the doctoral degree will be awarded by DSU.

## **Research Internship Program**

The Institute has dynamic curriculum, robust and talented pool of faculty members. One of the principal objectives of this training program is to impart industry orientated training/education to the fresh graduates from Colleges/Universities aspiring to build their career in Pharmaceutical industry.

- Series of class room sessions by recognized experts from the Pharmaceutical Industries & Research Areas
- Skill Development, Research Ethics & Practical demonstrations/hands on exposure in research
- Interactive work-shop on instrumental operations including research and development (formulations, Nano & Novel Technologies)
- Manufacturing, Quality management, Regulatory Affairs
- Patents (IPR)

## IDBR Team

Dr. S Narasimha Murthy Ph.D	Founder-Director
Dr. Paranjothy Kanni Ph.D	Director-Technology Management
Dr. Shobha Rani Hiremath Ph.D	Director-Translational Research
Dr. H.N.Shivakumar Ph.D.	Director-Research
Dr. Sarasija Suresh Ph.D	Project Director
Dr. K Vanaja Ph.D	Project Director
Dr. Lalitha Balaji Ph.D	Project Director

## Advisory Board Members

Dr. Michael A Repka Ph.D. Chair-Department of Pharmaceutics and Drug Delivery The University of Mississippi, USA	Dr. Howard Maibach Professor of Dermatology University of California, USA
Dr. Guru Betageri Associate Dean, Graduate College of Biomedical Sciences Western University of Health Sciences CA, USA	Prof. Shivaram Chairman and Director E Health TBI Bengaluru

## Collaborations



## INSTITUTE FOR DRUG DELIVERY AND BIOMEDICAL RESEARCH

#443, 2<sup>nd</sup> floor, West of Chord Road, 2<sup>nd</sup> Stage, Mahalaxmipuram, Bengaluru ,Karnataka – 560086

Tel: +91 9845577103 Email: [researchidb@gmail.com](mailto:researchidb@gmail.com), [idbr.org@gmail.com](mailto:idbr.org@gmail.com)