

PHARMACOLOGY



Blood Cell Counter
(Medonic CA 620, Sweden)



Air Conditioning Unit



Air Handling Unit



Autotitrator
(Metrohm, USA)

INFRASTRUCTURE

- HPLC with PDA and Fluorescence Detectors (Shimadzu, Japan)
 - Blood Chemistry Analyser (Bayer Corporation, USA)
 - Blood Cell Counter (Medonic CA 620, Sweden)
 - Plethysmometer (Ugo Basile, Italy)
 - ELISA Reader (Molecular Devices, USA)
 - Automatic Dissolution Test Station (Hansen Research, USA)
 - Autotitrator (Metrohm, USA)
 - Robotic Liquid Handling Unit (Packard Systems, USA)
 - Incubator Shaker (New Brunswick Scientific, USA)
 - Automatic Environmental Speed Vac System (Savant, USA)
 - Automatic Solid Phase Extractor (Gilson, USA)
 - Nitrogen based Auto Evaporator (Zymark, USA)
 - Probe Sonicator (Sonics, USA)
 - IR Spectrophotometer (Perkin Elmer, USA)
 - UV Spectrophotometer (Perkin Elmer, USA)
 - Histopathology Assembly (Automatic Tissue Stainer, Automatic Tissue Processor and Tissue Embedder) (Leica, USA)
- GVK BioSciences Pvt Ltd, Hyderabad
 - Lupin Pharma Ltd., Mumbai
 - Lyka Labs Limited, Mumbai
 - Nandan Agro Farms Pvt. Ltd., Hyderabad
 - Natco Pharma Ltd, Hyderabad
 - Nicholas Piramal India Ltd., Mumbai
 - Orchid Chemicals & Pharmaceuticals Ltd, Chennai
 - PRK Pharamanlysts Pvt Ltd, Hyderabad
 - Relisys Medical Devices Limited, Hyderabad
 - Suven Pharmaceuticals Ltd, Hyderabad
 - Tablets (India) Ltd, Chennai
 - Transgene Biotech Ltd, Hyderabad

CONTACT PERSON (Technical)

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PHARMACOLOGY

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VISION AND GOALS

- To create an excellent facility catering to the need of pharmaceutical industries and contribute new knowledge in the field of pharmacology and pharmaceutical sciences.



CORE COMPETENCIES AND ACTIVITIES

- Pre-clinical toxicity (includes Acute, Sub-acute, Chronic toxicity studies) in rats, mice, rabbits and guinea pigs and *in vitro* mutagenicity testing
- New Drug Discovery - Pharmacological screening for arthritis, diabetes and atherosclerosis in animal models.
- Drugs & Cosmetics Testing for Finished Products according to IP, BP, USP, JP, etc. (Drug Control Administration, AP, India approved Laboratory)
- Pharmacokinetics and Bio-equivalence



Animal Care and Handling

CURRENT RESEARCH AREAS

- New Drug Delivery Systems for Oral Peptides / Vaccines and Drugs.
- Pharmacokinetics
- Development of *In vitro* assays for various diseases
- Pharmacogenomics



Drug Testing Laboratory
(Approved by Drug Controller Administration, Govt. of A.P.)

TECHNOLOGIES AVAILABLE

- Novel drug delivery, Oral insulin, therapeutic peptides and vaccines - US patent 6,482,413.
- Rectal suppositories of propranolol, NSAIDs, diltiazem etc. useful in tropical climates.
- Herbal formulation useful as a therapeutic and cosmetic applications for the treatment of general skin disorders. (1) US 6,200,570 (2) US 6,379,673 (3) US 6,383,495

CLIENTS

- Aurabindo Pharma Ltd, Hyderabad
- Biological E Limited, Hyderabad
- Bharat Biotech International Ltd, Hyderabad
- Care Polymed Ltd, Hyderabad
- Gland Pharma Ltd, Hyderabad



Auto Blood Analyzer (Bayer Corporation, USA)