

SCOPE-Drug Research & Development Center



“Indian brain and expertise in technology is today being reckoned by the world at large. This has undoubtedly created prosperous grounds for research and development. The SCOPE DR & DC aims to provide investigators at SCOPE with a research hub that offers the various services required for development , analyses, Pharmacological Studies and preclinical projects. The inauguration on gave us an opportunity to make a transformational grooming centre challenging the students to discover their potential towards outstanding growth being superb performers”.

Dr. Sanjay Jain

Director, SCOPE DR&DC

A Word from the Director.....

SCOPE Drug Research & Development Center is a unique hybrid organization, that brings together researchers, institutions and industry to bridge the gap between primary research and the successful development of new medicines. In the years to come, we want the SCOPE to mobilize our investigators around the development and implementation of Drug Research & Development projects as well as specialized training in field of Drug Research & Development.

A number of services will be offered by the SCOPE DR & DC in connection with the various steps involved in pharmaceutical research project activities. Drug Research services will be offered on a priority basis to investigators who are regular or associate members. Services will also be offered to the scientific community to meet their periodic needs based on the availability of our staff.

The SCOPE DR & DC is under the supervision of the Unit's executive committee, which is made up of exemplary investigators who represent the Center's main areas of research: Dr. Sanjay Jain (Director), Ph.D. in Pharmacognosy, Dr. Arun Gupta, Ph.D. in Pharmaceutical Chemistry, Dr. Yashwant Gupta, Ph.D. in Pharmaceutics, Dr. Deepika Bhatt, Ph.D. in Pharmacognosy, Mr. Avnish Jain, M. Pharm in Medicinal chemistry, Mrs. Sudha Vengulekar, M. Pharm Medicinal chemistry, Mr. Rakesh Barik, M. Pharm in Pharmacognosy, Mrs. Neetu Sabarwal, M. Pharma in Pharmaceutical Chemistry, Mr. A. G. Hariharan, M. Pharma in Biotechnology, Mr. Neelesh Malviya, M. Pharma in Pharmacognosy, Mr. Hemant Khambate, M. Pharma in Pharmaceutics. Mrs. Niharika Gokhle, M. Pharm Medicinal chemistry Mr. Ajay Verma M.Pharma Pharmaceutical Biotechnology, Mr. Gaurav Bhatia M. Pharma in Pharmacognosy.

The investigators of DR & DC executive committee have the mandate to establish priorities for the DR & DC development and its scientific vision. They also have the mandate to develop academic activities that include continuing education activities in research as well as the professional development of the DR & DC employees.

It is becoming more and more imperative that we foster dialogue among our

investigators while at the same time maintaining one of our major objectives, i.e., the career development of our young investigators in order to prepare the next generation.

The SCOPE Research Associates are involved in the number of multi-site projects:

- ✓ Scientific Validation of Antidiabetic and Antioxidant Activities of Some Traditional Medicinal Plants of Malwa Region. Sponsored by Madhya Pradesh Council of Science and Technology, Bhopal, MP.
- ✓ Collaboration with Harashwardhan Lab. Indore for drug analysis and preclinical studies.
- ✓ Toxicological and anti tussive evaluation of poly herbal formulation of Universal Corporation Limited, Kenya.

The SCOPE DR & DC that we are inaugurating today represents a crucial element in the drug research and development. We applaud the work that has been done to date, but we must also work toward strengthening the Research Center's role in promoting and conducting large-scale multi-site drug research, formulation development, analytical studies and preclinical studies.

For further information, please contact: Dr. Sanjay Jain (Director)

SCOPE DR & DC

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OVERVIEW OF THE DRUG RESEARCH & DEVELOPMENT CENTRE

The Drug Research & Development Centre covers nearly the entire drug development chain from target to preclinical efficacy.

- **Our Vision:** To set up an international standard pharmaceutical research institution that can provide high quality education and training to all.
- **Our Mission:** A vision that has taken up concrete shape to make a transformational grooming centre, so that every student who steps out of our college should be a complete person, professionally, intellectually, and morally, so that he can take the challenges of this competitive world.
- **Our Quality Policy:** We aim to be an innovative center of excellence in learning

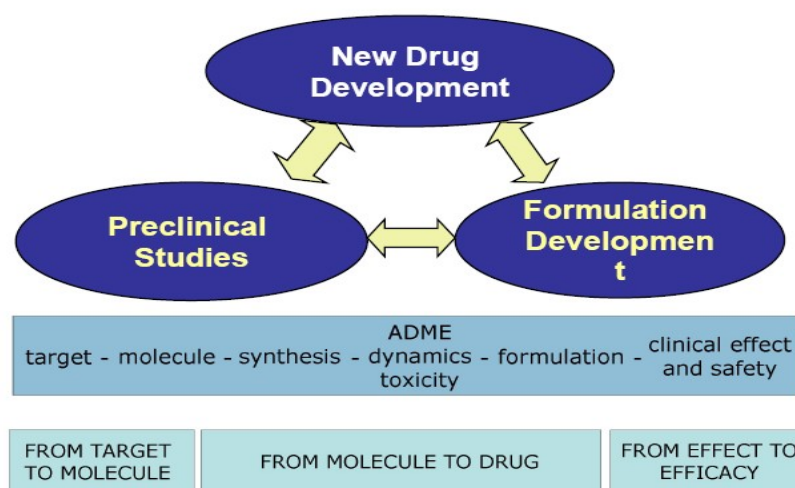
and research, producing competent, caring and ethical professionals for the industry and society who are lifelong learners. We are committed to achieve the highest standards of intellectual, educational and research productivity through continuous improvement of the infrastructure and industrial relations.

- **Our Objective:** To enhance the Drug research, development of infrastructure and to create opportunities for drug discovery and early pre-clinical drug development through interdisciplinary research collaboration between various schools, colleges, research centers, and private companies.

Drug Research & Development Center evolved from the faculty-initiated Drug Development Program that was established in 1999 to facilitate interdisciplinary research and educational activities. The Center offers scientific services to research and business communities in the area of drug discovery and development. It currently employs over 25 scientists (faculty, scientific and professional staff, postdocs, and graduate students)

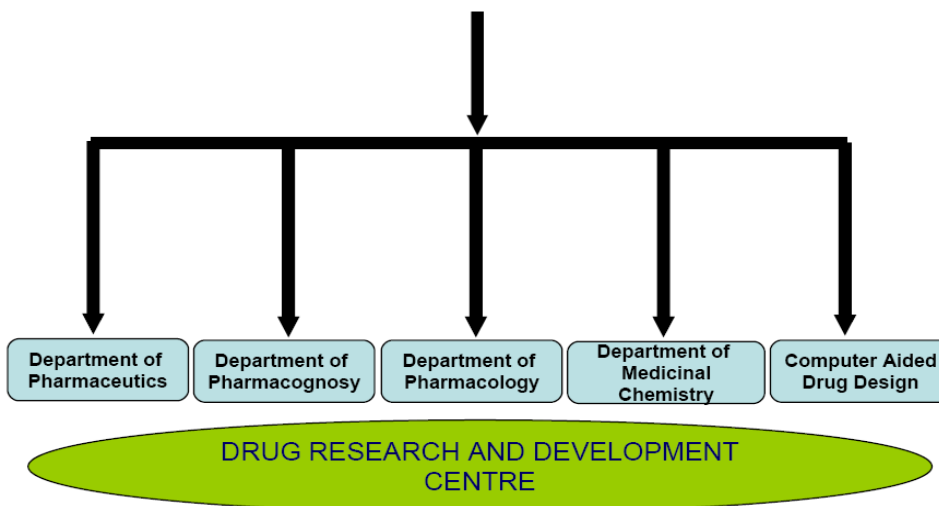
The Center is led by Dr. Sanjay Jain and Dr. Arun Gupta, expertise includes biological screening of herbs, synthetic medicinal agents, natural products chemistry, new synthetic methods, stereochemistry, and combinatorial chemistry Dr. Arun Gupta research is focused on the development of synthetic methods, including asymmetric methodology for the synthesis of natural products, and for structure-activity studies aimed at improving the therapeutic efficacy of natural products.

OUR RESEARCH APPROACH:



ORGANIZATIONAL STRUCTURE

The [Drug Research & Development Centre](#) is an integral part of the SCOPE. It aims to place itself at the center of research and promote synergy among existing research units and ensure complementarity and logic in the development of services.



STRATEGIC RESEARCH AREAS:

- Drug development
- Drug-like properties of drug substances (ADMET research)
- New drug formulations and process analysis techniques (PAT)
- Evaluation of efficacy of drug treatment

The research and further development of high-class analytical procedures is a research area, which supports the development of other research areas.

AVAILABLE SERVICES

Increases collaboration between the university drug research groups and pharmaceutical companies to create and transfer new innovations to the private sector. The centre also provides research and development services to pharmaceutical companies.

The Centre is able to carry out research projects in the following research areas:

1. Formulation Development and optimization
2. Analytical Method Development
3. Stability Studies as per ICH guidelines

4. Pharmacokinetics, Pharmacological & Pre Clinical studies
5. Antimicrobial Studies
6. Molecular modeling, Drug Design and Synthesis
7. Process Optimization and SOP writing

CONTACT US:

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ROAD MAP

