



BITS Pilani
Pilani Campus
Department of Pharmacy



INNOVATE-2024 Innovating for a Healthier Future

International Conference on

Integrating Novel Approaches for Non-Communicable Disease Target Exploration

March 7-9, 2024

In association with the Indian Pharmacological Society (IPS)

CONFERENCE VENUE → BITS Pilani - Pilani Campus (Rajasthan) 333 031, INDIA

ABOUT BITS PILANI

BITS Pilani is a Deemed-to-be University, offering on-campus programs to more than 18,500 students across its campuses in Pilani, Goa, Hyderabad, Mumbai, and Dubai. It has been recognized as an Institute of Eminence by the Ministry of Education, Government of India, in 2020. In QS Asia University Rankings 2023, BITS has been ranked 188th, the only private institute from India in Asia Top 200, and at 18 in India. Further, BITS Pilani has been ranked among the top 300 in QS World University Graduate Employability Rankings 2022 and within the top 8 in India. Having pioneered several curricular and pedagogic attributes, BITS Pilani has a vision to be amongst the top research-led Institutes in the country. The qualities of innovation, enterprise, commitment to excellence, adherence to merit, and transparency have characterized the Institute during its inexorable march to eminence. The Institute has secured over ₹398 crores as external research funding in the last five years. State-of-the-art facilities have been developed to support cutting-edge research led by students and about 930 faculty members. This led to a Scopus h-index 156, with 221 patents filed and 41 patents granted. Currently, there are 14 BITSian Unicorns and 1 Decacorn. There are over 7500 BITSian founders and co-founders of enterprises.

ABOUT THE DEPARTMENT OF PHARMACY

The Department of Pharmacy at BITS Pilani, Pilani Campus, is one of the nation's oldest pharmacy schools; the Department of Pharmacy at BITS Pilani was founded in 1950. We achieved the 3rd rank in 2023 and have constantly ranked in the top 5 by the NIRF (National Institutional Ranking Framework) in the Pharmacy category. In addition, over the previous two years, the QS world ranking for pharmacy and pharmacology has placed our department in the remarkable 100-150 range. We are actively involved in various research fields within the department, with a committed team of 15 faculty members and more than 63 research scholars. Numerous patents, faculty-led startups, research projects, and publications in prestigious journals with high-impact factors demonstrate our faculty member's dedication to producing high-caliber research. The department has also given the technologies to the industry, and some of these products are already on the market. Additionally, we have a cutting-edge infrastructure for drug discovery and product development. Our department is motivated by a compelling aim to establish itself as a premier global pharmaceutical research and teaching center.

ABOUT THE CONFERENCE

Non-communicable diseases (NCDs) are a broad group of ailments, including cardiovascular diseases (CVDs), cancer, diabetes and complications, obesity, chronic kidney disease (CKD), neurodegenerative disorders, and chronic respiratory diseases (CRDs). Globally, NCDs are the leading determinant of mortality, with ~41 million deaths/year out of 55 million. NCDs' worldwide epidemic poses a challenge to the healthcare systems of all nations. In India, the NCD-associated mortality is around 5.8 million/year. The impact of NCDs in India has changed, with communicable diseases declining and NCDs rising significantly. NCDs are generally chronic and may occur due to lifestyle, genetic, and environmental factors. The paucity of reliable NCD monitoring is a major obstacle to effective NCD prevention/management planning and implementation. The current global challenges in the domain of NCDs are the identification and validation of new druggable targets and lead compounds.

This conference will address the global challenges and current trends for NCDs, emphasizing diabetes and complications, CVDs, CKD, CRDs, cancer, and neurodegenerative disorders. Further, the conference will highlight advances in current and emerging strategies for discovering novel targets and drugs for NCDs. The conference will include lectures by experts from academia, national research labs, and industry. The delegates will be given the opportunity to present their work as posters and oral presentations.

THEMES/TOPICS OF THE CONFERENCE

- Genomics in NCDs: Application in prediction, diagnosis, and prevention
- Role of computational tools in target screening, drug discovery, and development
- Modern approaches in the discovery and development of plant-based natural products as potential therapeutic agents
- Chronic kidney disease: Updates on recently approved drugs and new drugs on the horizon
- Metabonomics for biomarker discovery of NCDs
- Single-cell transcriptomic analysis for prediction of cellular targets for NCDs
- Diabetes: Current preclinical and clinical knowledge
- Diabetic foot complications: Diagnosis, prevention and treatments
- Cancer cell therapies: Current trends and challenges
- Peptide drug discovery for NCDs: Challenges and opportunities
- Insights on epigenetics and epigenetic modifiers in NCD research
- Novel therapeutic targets against NCDs: Recent advances and challenges
- Precision oncology: Advanced targets and treatment strategies

ACCOMMODATION

Limited accommodation will be available on-campus in the hostel (₹300 /per room/per night) and Institute Guest House (₹1500/per room/per night) on a first-come, first-serve basis and will be chargeable. The charges are exclusive of GST. For the accompanying person, the accommodation charges are applicable with GST.

ABOUT INDIAN PHARMACOLOGICAL SOCIETY (IPS)

The history of the Indian Pharmacological Society (IPS) begins in 1966 during the 12th Annual Conference of the Association of Physiologists and Pharmacologists of India (APPI) in Patna when a sizable group of pharmacologists made the decision to form an independent organization for pharmacologists. IPS was recognized as the official National Society of Pharmacologists of India at the Fifth IUPHAR, which was held in San Francisco in July 1972. The IUPHAR Council Meeting was held in Helsinki in July 1975, and IPS was given permission to send representatives from India. Since that time, IPS has advanced and expanded annually. More than 5000 Life Members currently belong to academic/research institutions or businesses. The Society's members achieved great success in their specialized sectors, and many of them have won awards for excellence. In the glorious century of scientific advancement, the contribution of Pharmacologists in India is well recognized. In spite of sophisticated infrastructural facilities, we have abundant expertise and a magnificent ancestral legacy of indigenous systems of medicine. This is still vibrant and promises to show to the world the immense potential of Indian Pharmacologists.

REGISTRATION FEE

Research Scholars/Students (PG& UG)	₹4500
Faculty/Scientists/Postdocs	₹6500
Industry/Others	₹8000

* **GST inclusive.** * The bank may charge an additional fee for online transactions as applicable. # For the accompanying person, there will be additional charges of ₹3150/- (for meals, including GST). The accompanying person will not be eligible to receive the registration kit and conference material.

The registration fees include a registration kit, conference material, and meals.

Registration link: <https://forms.gle/ZbRZM74xfHLVRqBc6>

The last date for registration is **31st January 2024**.

BANK DETAILS

Beneficiary Name :	Birla Institute of Technology & Science, Pilani		
IFSC CODE No.	UTIB0001188		
Bank Account No.	918010089946355		
Bank	AXIS BANK LTD		
City Branch	PILANI	Branch Code →001188	
MICR No.	333211177	Swift Code →AXISINBB	



SPEAKERS

There will be 18–20 talks from experts in academia, research labs, and industry, nationally and internationally during the conference. A few of the expert talks will be arranged virtually.

ABSTRACT SUBMISSION

A maximum of 15 abstracts will be shortlisted for the oral presentation, and the remaining will be considered for the poster presentation by the scientific committee.

The last date for abstract for oral and poster submission is **26th Jan 2024**.

Link for Abstract Submission: <https://forms.gle/3dbe2usActNeqs986>

Please visit the conference website for more details regarding the abstract submission and oral and poster presentation guidelines.

AWARDS AND PRIZES

Presentation	Young Researcher Award		
	1 st	2 nd	3 rd
Oral	₹15000	₹10000	₹5000
Poster	₹15000	₹10000	₹5000

Appreciation Certificates with Mementos will be awarded to the 4th to 6th Rank winner.

LEADERSHIP

Prof. V. Ramgopal Rao
Vice-Chancellor, BITS Pilani

Prof. Sudhirkumar Barai
Director, BITS Pilani-Pilani Campus

Organizing Secretary
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Organized By
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Birla Institute of Technology & Science
Pilani, Pilani Campus
Rajasthan 333031

In association with the **Indian Pharmacological Society (IPS)**

CONFERENCE WEBSITE

The information regarding the list of speakers, the title of talks, and the programme schedule will be updated periodically and will be accessible through the following website:

<https://www.bits-pilani.ac.in/innovate-2024>

