

Recent Trends and Challenges in Regulation and Standardization of Herbal Drugs and Formulations (June 08, 2022 - June 17, 2022)



**National Institute of Pharmaceutical
Education and Research (NIPER),
Sector 67, S.A.S.Nagar (Mohali), Punjab,
India.**

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**Ministry of External Affairs,
Government of India**

THE THEME

In the last decade, there has been a global upsurge in the use of traditional medicine (TM) and complementary and alternative medicines (CAM) in both developed and developing countries. Today therefore, certain forms of traditional, complementary and alternative medicines play an increasingly important role in health care and health sector reform globally. Hence, the safety and efficacy, as well as the quality control, of traditional medicine and complementary and alternative medicines have become important concerns for both health authorities and the public.

Herbal drugs/botanicals are integral part of TM & CAM. The commercial value of herbal medicines on the international market is high and increasing greatly. Unfortunately, there is a lack of common standards and understanding of appropriate methods for evaluating traditional medicine to ensure the safety, efficacy and quality control of TM/CAM. Countries face major challenges in the development and implementation of the regulation of TM/CAM/herbal medicines. These challenges are related to regulatory status, assessment of safety and efficacy, quality control, safety monitoring and lack of knowledge about TM/CAM within national drug regulatory authorities. In order to meet these challenges strategies with objectives like framing policy, enhancing safety, efficacy and quality and ensuring access need to be visited. Another major challenge lies in the availability/sourcing of quality raw materials (herbal drug materials) for use in various formulations used in TM worldwide. The proposed course aims at creating a platform for discussing issues related to herbal drugs worldwide and in the process impart knowledge about recent developments in the ever changing dynamics of herbal drugs and their formulations and promoting rational development of herbal drug products.

SCIENTIFIC TOPICS to be deliberated

- ⦿ Trade in Herbal Drugs: A global perspective
- ⦿ Botanical standardization of herbal drugs
- ⦿ Cultivation and Collection practices for medicinal plant materials
- ⦿ Chemical standardization of herbal drugs
- ⦿ Qualitative and quantitative determination of contaminants in herbal drug materials
- ⦿ Modern Analytical Techniques such as HPTLC, HPLC, LC-MS, Capillary electrophoresis (CE) and CE-MS and their applications in identification and characterization of herbals
- ⦿ Pharmacovigilance of herbal drug
- ⦿ Safety and efficacy aspects of herbal medicines
- ⦿ Standardization, quality control, evaluation and New Drug Registration of herbal drugs
- ⦿ Bottlenecks in regulation of herbal drugs and products
- ⦿ Challenges in Pharmacokinetics and Pharmacodynamic study of herbal drugs
- ⦿ Herb-Drug Interactions: Pros and Cons
- ⦿ Post marketing surveillance of herbal medicines
- ⦿ Nutraceuticals: Facts and Future
- ⦿ Hands-on training sessions (2-3) on above mentioned techniques
- ⦿ Visits to 2 pharmaceutical industries

ABOUT NIPER

National Institute of Pharmaceutical Education and Research (NIPER) is an autonomous institute under the aegis of Ministry of Chemicals and Fertilizers, Government of India. NIPER a premier pharmaceutical institute in India, was created in 1994 by an Act of Parliament of India and declared an institute of national importance by the government. The institute offers Masters and Doctoral programs and is the first national level institute in India in pharmaceutical sciences with a proclaimed objective of becoming a centre of excellence for advanced studies and research. The students trained at NIPER are highly regarded in pharmaceutical industry. The success of NIPER has facilitated the setting up of six more similar institutes, which have already started functioning at Ahmedabad, Guwahati, Hajipur, Hyderabad, Kolkata and Rae Bareli. With its internationally recognized expertise in drug target identification, validation, lead generation and optimization, impurity profiling, formulation and pre-clinical studies, NIPER is looking forward to explore the possibility of establishing collaborations with pharmaceutical industries in all aspects of drug discovery and development.



The main objectives of the Institute are:

- © Provide leadership in pharmaceutical sciences
- © Advanced research in new and emerging areas
- © National/International collaborative research
- © Human Resource Development
- © Media and curriculum development
- © Establishment of national centres
- © Sponsored projects
- © Promotion of community and institutional pharmacy
- © Study of sociological aspects of drug use

GENERAL INFORMATION

Chandigarh- The City Beautiful, is the best planned city in India; famous for Nek Chand's Rock Garden. It is connected by rail, road and air with New Delhi. Chandigarh is capital of two states- Punjab and Haryana, and is also a Union Territory. The city has beautiful gardens along a seasonal stream and a beautiful Sukhna Lake. Chandigarh is the face of Modern India. The historic holy city of Amritsar, famous for Golden Temple is about 250 km from Chandigarh. The Taj Mahal situated in Agra is about 450 km from Chandigarh.

OFFICIAL LANGUAGE

The official language of the Course will be English and there will not be any provision of translation into other languages.

WEATHER

The weather is slightly hot with relative humidity towards higher side in this month in North India. The minimum and maximum temperature is expected in the range of 26 - 35°C..

REACHING NIPER, SAS NAGAR, INDIA

NIPER is located about 250 km north of Delhi at SAS Nagar (Mohali), Punjab on a total area of 130 acres. SAS Nagar is located close to Chandigarh and well connected by air, train & roads.

ARRIVAL BY AIR

Chandigarh Airport is about 10 km from NIPER, SAS Nagar (approximately 15 minutes drive by taxi). Several flights to Chandigarh are available from Delhi daily.

ARRIVAL BY TRAIN

Chandigarh Railway Station is well connected to New Delhi Railway -Station. It is about 14 km from NIPER, SAS Nagar (Mohali) (approximately 25 minutes drive by taxi).

ARRIVAL BY ROAD

NIPER is about 12 km from Chandigarh Bus Stand. For details please, log into <http://www.chandigarhtourism.gov.in>.

CONTACT DETAILS

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