



**CSIR-CIMAP**

# Five Days Training Program on Herbal Drug Development Technologies

6-10 February, 2023



**Organized by : CSIR-Central Institute of Medicinal and Aromatic Plants (CSIR-CIMAP), Lucknow**

CSIR-Central Institute of Medicinal and Aromatic Plants (CSIR-CIMAP), a frontier plant research laboratory of the Council of Scientific and Industrial Research (CSIR), is steering multidisciplinary high-quality research in biological, agricultural and chemical sciences, and extending technologies and services to the farmers and entrepreneurs of medicinal and aromatic plants (MAPs). CSIR-CIMAP has made great progress in fundamental research, technology and product development, extension activities and human resource development and played a key role in positioning India as a global leader in production of mints, vetiver and other aromatic grasses, and in ensuring indigenous production of artemisinin - a WHO approved anti-malarial. CSIR-CIMAP has also played a key role in successfully commercializing an ayurvedic herbs-based anti-diabetic formulation, which has now benefitted millions.

## **Important Dates:**

Training program dates: **6-10 February, 2023**

Last date for online application submission: **3<sup>rd</sup> Feb., 2023**

## **Aims of the training program**

India is sitting on the goldmine of well-recorded and well-practiced knowledge of traditional herbal medicine and it has a rich heritage of medicinal plants (more than 8,000 medicinal plant species). Therefore, there is a great need to understand the process of herbal drug development and the technologies used for this purpose. This five days residential training program will help the students/researchers/faculty members and industry persons to understand the basic concept of herbal drug development, pharmacognostic evaluation, chemical characterization of plant extracts and essential oil, *in-vitro* and *in-vivo* evaluation of herbal drugs, and Ayurvedic as well as pharmaceutical formulations.

## **CONTACT US**

### **Director**

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and Aromatic Plants, PO- CIMAP,

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### **Course Coordinator**

**Dr. N. P. Yadav**

Principal Scientist

Bioprospection & Product Development

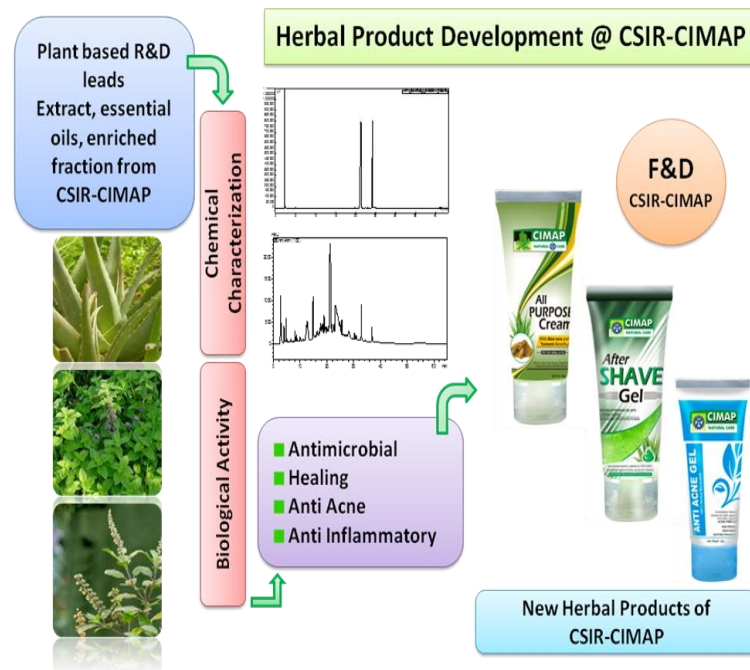
CSIR- CIMAP, Lucknow – 226015

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# Training Program on Herbal Drug Development Technologies

- Day 1** Concepts of Herbal Drug Development  
Overview on Herbal Drug Industry in India  
Pharmacognostic evaluation of Plant Drugs
- Day 2** Extraction Technologies of Herbal Drugs  
Plant Drugs and Essential oil  
Isolation & Purification of plant drugs
- Day 3** Chemical Characterization of Herbal Drugs  
Medicinal plants & Plant extracts  
Aromatic Plants & Essential oils
- Day 4** *In-vitro* & *in-vivo* evaluation of herbal drugs  
*In-vitro* evaluation  
*In-vivo* evaluation  
Toxicity studies
- Day 5** Herbal Formulation Development  
Pharmaceutical Formulations  
Ayurvedic formulations



## More about training program

Five days training on herbal drug technologies will be provided through interactive sessions of different techniques and experiments by the scientists of CSIR-CIMAP as well as industry personnel working on different aspects of herbal drug developments including pharmacognosist, chemical-engineer, natural product chemist, analytical chemist, pharmacologist, toxicologist, ayurvedic experts and pharmaceutical scientist.

<b>Mode of training program</b>	:	<b>Residential (off-line)</b>
<b>Duration</b>	:	<b>05 Days</b>
<b>Seats</b>	:	<b>20</b> (First come, first served basis)
<b>Registration fee</b>	:	Rs.8,000/ Students (submit certificate for bonafide student) Rs.15,000/ Faculty persons Rs.20,000/ Industry persons
		<b>The fee also includes accommodation and food for five days @ CSIR-CIMAP Guest House</b>
<b>Mode of Registration</b>	:	Interested candidates have to submit the Registration Form along with course fee (available on CIMAP website)
<b>Payment Mode</b>	:	The demand draft in favour of “ <b>Director, CSIR-CIMAP, Lucknow</b> ” payable at Lucknow <b>or through online transfer.</b>
		<b>Bank Details for online transfer-</b>
Account No.	:	30267691783
Account holder	:	Director, CIMAP, Lucknow
Bank Address	:	State Bank of India, Main Branch, Hazaratganj, Lucknow
Branch Code	:	000125
IFSC Code	:	SBIN0000125
MICR Code	:	226002002

**Five days training program on “Herbal Drug Development Technologies”**

**[6-10 February, 2023]**

**Application Form**

**Candidate’s Name (in capital letters):** .....

**Address for correspondence:** .....

**Date of Birth:** ..... **Gender (M/F):** .....

**Mobile No.** ..... **Email id:** .....

**Educational qualification:** .....

**Field of Specialization:**.....

**University/Organization:** .....

**Payment Details (Demand draft/ online transfer):**  
.....

**(Signature of Applicant)**

**Date & Place:**.....

**Recommendation of supervisor/Head of the institute** (Required only for student)

It is certified that the above mentioned information is correct and he/she is a **bonafide student** of this institute/organization.

**(Signature and seal of the supervisor/Head of the Department)**

**Date & place:** .....

**Note:** Kindly email the dully filled form to [np.yadav@cimap.res.in](mailto:np.yadav@cimap.res.in)

**Contact Person: Dr. N. P. Yadav (Mob.9451244418)**