



**CSIR-CIMAP**

# Five Days Training Program on Herbal Drug Development Technologies

16-20 October, 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: **16-20 October, 2023**

Last date for online application submission extended up to: **11<sup>th</sup> Oct., 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 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**

Senior Principal Scientist

Bioprospection & Product Development

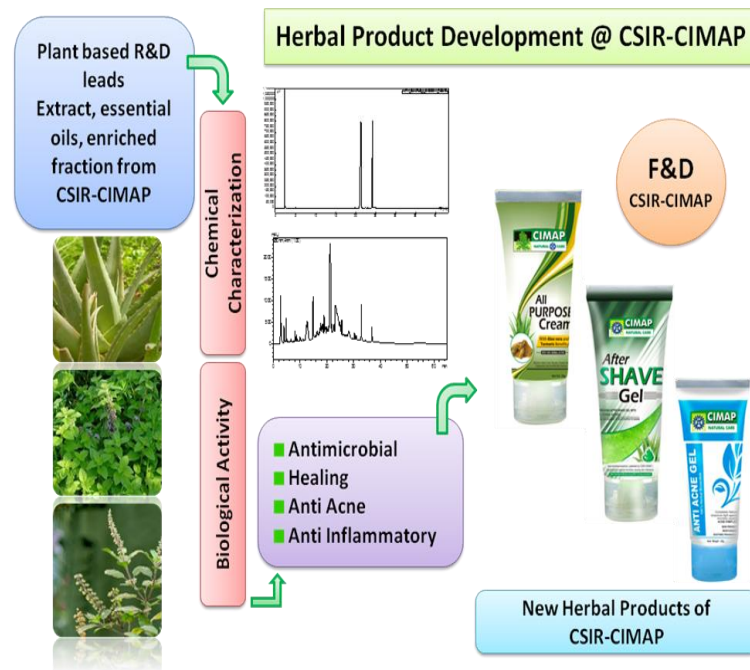
CSIR- CIMAP, Lucknow – 226015

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Email: [np.yadav@cimap.res.in](mailto:np.yadav@cimap.res.in)

# 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>Online</b>
<b>Duration</b>	:	<b>05 Days</b>
<b>Seats</b>	:	<b>25</b> (First come, first served basis)
<b>Registration fee</b>	:	Rs.5,000/ Students (submit certificate for bonafide student) Rs.8,000/ Faculty persons Rs.10,000/ Industry persons
<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”

[16-20 Oct, 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 (Only required 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)**