



Hands on Training Programme  
**Pre-Clinical Development of  
Medicinal and Aromatic Plant-based Leads**  
September 19-23, 2022



**Aim of the Training Programme**

Pre-Clinical Development of Medicinal and Aromatic Plants (MAPs) based Leads is targeted for individuals who desire to refresh/upgrade/acquire professional skills in the specific area of pre-clinical development of herbal products under the broad category of health sector. This course is practical intensive with ~24-26 hours hands on laboratory experiments along with ~12-15 tutorials to understand the basic principle of pre-clinical development related studies.

**Objective** of this training programme is to generate a passion among the researchers to pursue science as a career and do the excellence.

**The training Programme would cover the following aspects**

**Practical's** : Handling of Laboratory Animals (Mice, Rats, Rabbits) / Demonstration of Animal Models for Pain, Inflammation, Fever, Malaria, Immunomodulation, Diabetes, anti-infective) Parameters : Hematology, Serum biochemistry, ELISA, Histopathology etc.

- Animal alternative models (*In-vitro* assays).
- Demonstration on Chemical signature of MAPs based therapeutic leads.
- Herbal Formulation Preparations

**Tutorials** : Alternatives to use of laboratory animals, Regulatory Guidelines for the establishment of laboratory animal facility and in-vivo experimentation, Phytopharmaceutical Drug Development, Safety evaluations in herbal drug development, *In-silico* drug development using phytomolecules, Biochemical assays for pre-clinical cancer drug development etc.

Duration	: 05 working days
No. of seats	: 20
Educational Qualification	: B. Pharm, M. Pharm, BSc-MLT, MSc-MLT, BAMS, MD, M.VSc, MSc in biological Sciences or equivalent
Age Group	: 21-50 years
Date of Commencement	: 19-23, September 2022
Venue of the Course	: CSIR-CIMAP, Lucknow
Course Fee	: INR-7500/-
Mode of Training	: Residential

Candidates may apply through attached form latest by **August 15, 2022** by email to [du.bawankule@cimap.res.in](mailto:du.bawankule@cimap.res.in). Eligible candidates will be shortlisted based on first come first serve basis, the selected candidates will be informed through email for the submission of the course fee either online mode to SBI bank A/c No. 00000030267691783, SBI Main branch, Hazratganj, Lucknow (IFSC code: SBIN0000125) or through Demand Draft in favour of 'Director, CIMAP', payable at Lucknow.

**Organized by: Bio-prospection & Product Development Department CSIR-CIMAP, Lucknow.**

**Contact Persons: Dr. D.U. Bawankule (9415329719); Dr. Anirban Pal (9415011404), Dr Anil Maurya (9415614220)**

Website: <http://www.cimap.res.in/skilldevelopment>



## Application Form

**Pre-Clinical Development of Medicinal and Aromatic Plant based Leads**

**(September 19-23, 2022)**



Name of the Applicant:

Address for Correspondence:

Date of Birth & Age:

Category (Gen/OBC/SC/ST):

Gender (M/F):

Mobile No.:

E-mail id:

Educational Qualification:

Field of Specialization:

University/Organization:

Statement of Purpose (around 50-80 words):



Signature of Applicant (with date)

Kindly Email the dully filled application form to [du.bawankule@cimap.res.in](mailto:du.bawankule@cimap.res.in)

Contact Persons:

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