

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

March 8-12,2021

Aim of the Training Programme

“Pre-Clinical Development of Medicinal and Aromatic Plant-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

Practicals

➤ **In-vitro assays** includes animal cell culture techniques, anti-oxidant assay, anti-bacterial ,anti-malarial, anti-fungal ,anti-mycobacterium, anti-mycobacterium, anti-inflammatory /anti-cancer study, Isolated Organ Bath assay etc

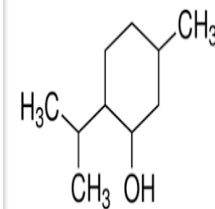
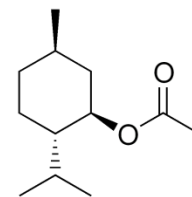
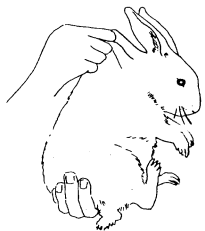
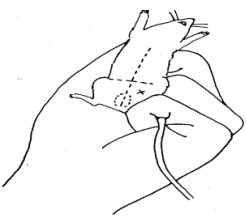
➤ Handling of **Laboratory Animals** (Mice, Rats, Rabbits).

➤ Demonstration of **Animal Models** for Pain, Inflammation ,Fever ,Malaria, Immunomodulation, Diabetes, anti-infective) using Mice, Rats, Rabbits.

✓Parameters : Hematology, Serum biochemistry, ELISA ,Histopathology etc

➤ Demonstration on **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



About CSIR-CIMAP, Lucknow

CSIR-Central Institute of Medicinal and Aromatic Plants (CIMAP) is a premier laboratory in the biological sciences cluster doing excellent research in aromatic and medicinal plants of economic importance. The scientists of CSIR-CIMAP holds great expertise in the areas from agricultural, chemical and biological sciences who are working for improving the life styles of billions of people of India especially farmers. Write from developing best varieties of medicinal and aromatic plants for the farmers to the health-related products for the common man of Indian society has been the aim of CSIR-CIMAP. A great state of the art infrastructure with high end instrumentation facilities facilitates CSIR-CIMAP's research for developing products of great value and pursuing world class science of the modern era. For more details please see the CSIR-CIMAP website www.cimap.res.in

The details of the training programme

Duration	:	05working days
No. of seats	:	20
Educational Qualification	:	B.Tech/B.Pharm/ BAMS/ M.Pharm/ MD/ /M.V.Sc /BSc/M.Sc in biological Sciences or equivalent
Age Group	:	21-40 years
Date of Commencement	:	March 8-12,2021
Venue of the Course	:	CSIR-CIMAP, Lucknow
Course Fee	:	INR-5000/-(Offline attendance) INR-3000/-(Online attendance)
Mode of Training	:	Online as well as Offline

Candidates will be shortlisted based on the application form along with recommendation letter by Head of Department/ Institution. Eligible candidates may apply through attached form latest by February 17, 2021 by email to hrd@cimap.res.in and copy to du.bawankule@cimap.res.in. After short-listing of the received applications, the selected candidates will be informed for the submission of the course fee either online or through demand draft (in favor of Director, CIMAP payable at Lucknow).

APPLICATION FORM

Pre-Clinical Development of Medicinal and Aromatic Plant based Leads

(March 8-12, 2021)

*Candidate's Name:

*Address for Correspondence:

*Date of Birth & Age:

*Gender (M/F):

*Mobile No.:

Alternate Mobile No.: *E-mail id:

*Educational Qualification:

*Aggregate Percentage of Marks:

Field of Specialization:

*University/Organization:

*Statement of Purpose (around 50-80 words):

* Mode of Training(online/offline) :

*Date of Application:

*Signature of Applicant

(* Mandatory Fields)

Kindly Email the dully filled form along with recommendation letter by Head of Department/ Institution to hrd@cimap.res.in and copy to du.bawankule@cimap.res.in

Contact Persons: Dr. D.U.Bawankule(9415329719), Dr. Anirban Pal(9415011404)