

# CIMAP VISIT BATCH 2022-23













**CSIR - CIMAP**

## HERBARIUM AND CRUDE DRUG REPOSITORY

- Herbarium is a store house of dried plant specimens collected from different phytogeographical regions and mounted on appropriate sheets, authentically identified and arranged according to an accepted system of classification.
- CIMAP herbarium was established in 1978 as a national facility exclusively for Medicinal and Aromatic Plants (MAPs).
- The herbarium is being enriched continuously by adding specimens collected from different phytogeographical regions of India.
- It is one of the Internationally recognized Herbaria of the country and included in Index Herbariorum.

### Organization of Herbarium

- CIMAP Herbarium is arranged as per the classification system of "Bentham and Hooker". According to this system, less evolved or primitive family Ranunculaceae is being placed in the starting cupboard while highly advanced family Poaceae is placed in the last cupboard.
- Pteridophytes, Lichens and Gymnosperms are kept separately.
- Each family of the herbarium has been assigned with the number based on Bentham & Hooker System.
- The genus and species are arranged in alphabetical order.
- The specimens of varieties developed so far for large scale cultivation have also been lodged in the Herbarium.

### Guidelines for Consultation of Herbarium & Crude Drug Repository

- Proper cleanliness is very important in the Herbarium. Dirt or moisture (as is likely to go with gumboots, raincoats or umbrellas) should not be carried into the herbarium hall.
- The plant specimens should be properly handled with care so that they should not be broken or damage being precious materials to be used for longer time.
- It is important to understand thoroughly the arrangement in the herbarium- the arrangement of the families, genera and species, before taking out any material. It is useful to know in advance where reference literature and flora are kept.
- Smoking is prohibited in the Herbarium.
- Cupboards should be close after taking out required bundles.
- Full bundles should be taken out; pulling out one or more sheets will surely damage the specimens and break flowers, fruits or twigs from the bundles back into cupboards it should be ascertained that the pile of sheets is at a proper place. Edges and ends protruding outside the bundles are liable to damage the specimen.
- Specimens should not remain exposed to weather beyond necessary time. They may catch infection or moisture.
- Visual matching should not be considered enough. Identification must be checked with the help of descriptions in floras and critical identifications alone lead to discovery of novelties.
- Monographers and specialist continuing the identifications are welcome to put mark of exclamation (!), and their signatures.
- No water or food stuffs should be left in cupboards and drawers in halls; these can attract ants and other insects.
- Glass containers of crude drugs should be not moved from their place.
- The crude drug samples should not be taken out and tasted and smelt.
- Visiting scientist and students are requested to record their visit in the Register maintained for this purpose.
- Photography is strictly prohibited in the herbarium without the permission.

101 RANUNCULACEAE 102 GALERUCACEAE 103 MALVACEAE 104 ANGIOSPERMACEAE 105 BIENERTIACEAE 106 BERBERIDACEAE 107 PARNASSIACEAE 108 PAPAVERACEAE 109 FUMARIACEAE 110 BRASSICACEAE 111 CARYOPHYLLACEAE 112 CARYOPHYLLACEAE 113 BRASSICACEAE 114 CARYOPHYLLACEAE 115 CARYOPHYLLACEAE 116 CARYOPHYLLACEAE 117 CARYOPHYLLACEAE 118 CARYOPHYLLACEAE 119 CARYOPHYLLACEAE 120 CARYOPHYLLACEAE 121 CARYOPHYLLACEAE 122 CARYOPHYLLACEAE 123 CARYOPHYLLACEAE 124 CARYOPHYLLACEAE 125 CARYOPHYLLACEAE 126 CARYOPHYLLACEAE 127 CARYOPHYLLACEAE 128 CARYOPHYLLACEAE 129 CARYOPHYLLACEAE 130 CARYOPHYLLACEAE 131 CARYOPHYLLACEAE 132 CARYOPHYLLACEAE 133 CARYOPHYLLACEAE 134 CARYOPHYLLACEAE 135 CARYOPHYLLACEAE 136 CARYOPHYLLACEAE 137 CARYOPHYLLACEAE 138 CARYOPHYLLACEAE 139 CARYOPHYLLACEAE 140 CARYOPHYLLACEAE 141 CARYOPHYLLACEAE 142 CARYOPHYLLACEAE 143 CARYOPHYLLACEAE 144 CARYOPHYLLACEAE 145 CARYOPHYLLACEAE 146 CARYOPHYLLACEAE 147 CARYOPHYLLACEAE 148 CARYOPHYLLACEAE 149 CARYOPHYLLACEAE 150 CARYOPHYLLACEAE 151 CARYOPHYLLACEAE 152 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(CIMAP)  
Acc No. 4194  
Date 31.5.2002

**HERBARIUM**  
CENTRAL INSTITUTE OF MEDICINAL AND AROMATIC  
PLANTS, LUCKNOW

Bot. Name *Aconitum heterophyllum* Wall.

Family Ranunculaceae ..... Coll. No. 9917

Vern. Name ..... Alt. ....

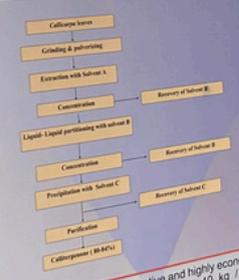
Place... Lauraat., Rohoo., Shimla, H.P.

Coll. By .. S. P. Jain ..... Date 19.08.2001

Remarks Herbs upto 70 cm tall with purplish flowers.  
Rare within the alpine zones.

Contact:  
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कैलीकार्पा मैक्रोफिला से कैलीटर्पीनोन (हार्मोन) निकालने की प्रसंस्करण प्रौद्योगिकी  
 Process technology for isolation of calliterpenone (growth hormone) from *Callicarpa macrophylla*



Novel, innovative and highly economical process technology at 40 kg / batch capacity  
 100 fold enhancement in yield than reported  
 Process efficiency up to 80% (dry weight basis)  
 Product purity 85-90%  
 Isolation technology uses low cost inert solvents with minimal capital investment and without tedious column chromatography





## महत्वपूर्ण औषधीय फसलों की उन्नत प्रजातियाँ

### Varieties of Important Medicinal Crops

#### Hepatoprotective

Milk Thistle, *Silybum marianum*



CIM-Liv: suitable for dry lands. High seed yield (12-14 q/ha). Silymarin content 3% and silymarin yield 30kg/ha

Bhumyamaki, *Phyllanthus amarus*



CIM-Jeevan: High herb yielding with Phyllanthin 0.7% and Hypophyllanthin 0.35%

Kalmegh, *Andrographis paniculata*



CIM-Megha: Shade compatible. Herb yield 32q/ha. Andrographolide 2.23%, neo-andrographolide 0.76%

#### Laxatives

Isabgol, *Plantago ovata*



Niharka: Suitable for dry lands. Seed husk used in chronic constipation. Seed yield 10-12 q/ha

Senna, *Cassia angustifolia*



Sona: Suitable for dry lands, used for treatment of habitual constipation. dry leaf yield 8-10 q/ha, rich in sennosides (1.4%)

#### Memory

Brahmi, *Bacopa monnieri*



CIM-Jagriti: Brahmi, high herbage and Bacoside-A content

Mandukaparni, *Centella asiatica*



CIMAPICA-02: Mandukaparni, Asiaticoside content 2%





