

## Systematic position :-

Phylum — Angiospermae

Sub phylum — Dicotyledons

Division — Lignosae

Order — Urticales

Family — Cannabiaceae

Introduction :- It is small family of the order urticales, includes two imp. genera i.e. Cannabis & Humulus. It is not similar to Moraceae because it has not latex. The plants are mostly herbaceous & aromatics of this family. The genus Humulus includes 2 imp. sps. These two sps are mostly cultivated in various garden rich in fertile soils. It is grown to the height of 15' to 20'. Humulus japonicus is native of China & Japan. It is also highly ornamental. Cannabis contains only wild sps in different forms i.e. C. sativa. It is annual herb that grows in waste land by road sides and railway lines. It is very common in wild form.

### Range of vegetative character

Habit & Habitat —

Root —

Stem —

Leaf —

The leaves in this family are mostly simple, alternate, palmately lobed, insig. margin & the stipules are persistent.

### Range of floral character

Inflorescence —

It is mostly cymose type. Plants are mostly dioecious. In male plants the inflorescence is loose and many flowered. In female plant with it is only few flower & compact. In genus, Humulus the plants are mostly monoecious.

- Flower — In male flowers the perianth present. It consists of five leaves. These are either free or slightly connate at the base. The segments are imbricate. It contains 5 stamens. These are lying opposite to the perianth leaves. The filaments are erect. The anthers are erect in bud, bito-ocular, opening length wise. In female flower the perianth small, cup shaped, the perianth leaves enveloping the ovary. Ovary monocarpellary which is sessile, unilocular & contain a single pendulous ovule. The ovary is capped by a pair of bushy styles & stigma.
- Fruit — It is dry, an achene. It is single seeded with either coiled or curved embryo seed contain scanty fleshy endosperm.
- Pollination — Anemophilous and entomophilous both type.
- Floral Formula — Floral Formula typical.

#### Eco Imp. of the family :-

- (i) The plants C. sativa give us Bhang, Ganja & Charas. Bhang consist of dried leaves & flower. It is also consumed by people. It is highly intoxicating. Bhang is also narcotic. It is also obtain from the female plants. It is also mixed with tobacco & smoked. The Ganja consist of dead flowering tops of the female flower. It is also smoked include form. All these three products are highly intoxicating & ~~effect~~ inject the nervous system.
- (ii) Cannabis also cultivated from strong part fibre. It is largely used in textile industry.
- (iii) Humulus lupulus are largely cultivated in garden. There are many varieties of this plant like Cradings, Grapes, Whiteblue. The

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brackets of this plants bear glandular hair which secrete lupulin. It is aromatic substance. Its fruit largely used in flavouring beer. Humulus japonicus native of China & Japan. It is cultivated for ornamental purpose.

Affinity -> This family is closely related with the family Moraceae. Panetta & Hutchinson treated it as a separate family Cannabaceae. It is also supported by recent morphological studies. The plants differ from members of Moraceae in having no latex. This is typical differences of this family other similarities of Moraceae.

grows in waste land by road sides and very common in wild form.

Range of vegetative characters

- Habit & Habitat -
- Root -
- Stem -
- Leaf -

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