

Lamiaceae

Field characters:

Leaves opposite, no stipules, flowers usually two lipped and colorful. Fruits drupes or mericarps with an enlarged or colorful calyx

Confused with:

Rubiaceae

Fused interpetiolar stipules, regular flowers, inferior ovary

Solanaceae

usually alternate leaves, fruit a berry, lots of seed, 5 stamens often with pores

Apocynaceae

White sap, twisted petals, colleters on petiole base and adjoining stem, seed usually with tuft of hairs; androecium and gynoecium sometimes fused

Rutaceae

Regular flowers, corolla and calyx lobes free, leaves often alternate, compound

Description:

Habit: Herbs, shrubs, trees or lianas.

Sap: absent.

Stipules: absent.

Leaves: opposite, decussate, simple or palmately (rarely pinnately) compound; often with gland tipped hairs or sessile glands.

Inflorescences: determinate, terminal or axillary, cymose or thyrsoid.

Flowers: zygomorphic, bisexual, usually tubular and 2-lipped; stamens: 2 or 4, exceeding the corolla tube

Ovary: superior, style: terminal or gynobasic.

Fruit: with 2 carpels but often appearing 4-locular (parted) because a false division is formed by the ingrowth of the carpel wall, 1 ovule per locus. (2-) 4 nutlets or drupe; seeds: (2-)4 nutlets or in a drupe 1-4 (7) stones.



Clerodendrum sp.



Premna serratifolia



Callicarpa sp.



Swollen nodes of *Teijsmanniodendron*



Glands at base of *Gmelina* leave

Genera:

- Clerodendrum* Simple leaves, Corolla regular to zygomorphic 5 lobes, fruiting calyx usually recurved.
- Callicarpa* Small trees or shrubs, inflorescence axillary, often with stellate hairs. Corolla regular, 4 lobes.
- Congea* Liana with simple leaves; 3-4 Involucral bracts; corolla zygomorphic.
- Gmelina* Trees, shrubs or liana with leaves with two big basal glands; Large showy corolla.
- Peronema* Leaves pinnate often with winged leaf rachis; two fertile stamens.
- Premna* trees, shrubs or lianas, simple leaves Inflorescence terminal; corolla regular to zygomorphic , 4 lobes.
- Petraeovitex* Lianas with palmate leaves, fruiting calyx with 5 greatly enlarged lobes (wings).
- Sphenodesme* Liana with simple leaves, 6 Involucral bracts; corolla actinomorphic.
- Tectona* Big trees with stellate hairs on large leaves; large inflated papery calyx when in fruit.
- Teijsmanniodendron* Tree with simple or palmately leaves; petioles with swollen nodes, corolla regular to zygomorphic , 5 lobes; fruits with one seed.
- Vitex* Trees or shrubs with palmate leaves, corolla regular to zygomorphic , 5 lobes; fruits with 1-4 seeds.

Flower of *Vitex vestita*



Fruits of *Teijsmanniodendron* sp.