## Acanthaceae

## Field characters:

Herbs or lianas with swollen nodes when fresh (shrunken ones when dry), cystoliths usually present; corolla tubular, usually 4 stamens; Fruits a capsules, usually with hooks inside

## Confused with:

**Gesneriaceae:** leaves without cystoliths, often hairy; fruit capsule or indehiscent berry without hooks with many tiny seeds.

**Lamiaceae:** cystoliths absent, fruits usually a drupe, 1-4 seeds seldom with wings, herbs often with angular stems.

**Scrophulariaceae:** cystoliths absent, fruits usually with persistent style and many seeds.

## **Description:**

Habit: Herbs, sometimes shrubs or rarely lianas, swollen nodes on stem (dry shrunken).

Sap: absent.

Stipules: absent.

**Leaves**: simple, opposite, decussate (rarely alternate), margin entire to serrate, usually cystoliths present.

**Inflorescence:** determinate, flowers often associated with showy bracts.

**Flowers**: corolla funnel-shaped, 2-lipped or 1-lipped.

Ovules: superior, usually 2-10.

**Fruit:** a 2-valved, often stipulate capsule, usually with jaculators (hooks); seeds 2 or 4, rarely more, usually latterly flattened.



Swollen nodes on stem (shrunken when dry)



Ruellia Fruit with hooks



Major Genera:	
Acanthus:	Herb with spines, cystoliths absent, corolla with upper lip absent, hooks in the fruits.
Barleria:	Herb with spines, cystoliths present, calyx with 2 large and 2 small lobes, hooks in the fruits.
Justica:	Herb without spines, cystoliths present, 2 filaments with the 2 thecae attached at different levels, hooks in the fruits.
Ruellia:	Herb without spines, cystoliths present, corolla lobes sub-actinomorphic, fruits with hooks and more than 4 seeds.
Staurogyne:	Small herb without spines, no cystoliths, corolla lobes sub-actinomorphic, hooks absent in fruit.
Strobilanthus:	Herb without spines, with cystoliths, Inflorescences large, fruit with hooks.
Thunbergia:	Liana, no cystoliths, flower surrounded by two big bracts, fruit duckbill shaped, without hooks; seeds globose.



Leaves with cystoliths