



BLDEA's  
SSM College of Pharmacy and Research Centre,  
VIAJAYAPUR-586103,



## Acacia,



Acacia, (genus *Acacia*), genus of about 160 species of trees and shrubs in the pea family ([Fabaceae](#)). Acacias are native to tropical and subtropical regions of the world, particularly [Australia](#) (where they are called wattles) and Africa, where they are well-known landmarks on the [veld](#) and [savanna](#).

### Physical Description

Acacias' distinctive [leaves](#) take the form of small finely divided leaflets that give the leafstalk a feathery or fernlike (i.e., pinnate) appearance. In

many Australian and Pacific species, the leaflets are suppressed or absent altogether, and the leafstalks (petioles) are flattened and perform the physiological functions of leaves. The leafstalks may be vertically arranged and bear thorns or sharp curved prickles at their base. Acacias are also distinguished by their small, often fragrant flowers, which are arranged in compact globular or cylindrical clusters. The flowers are usually yellow but occasionally white and have many stamens apiece, giving each one a fuzzy appearance. The fruits are legumes and are highly variable in appearance, depending on the species. Acacias are often confused with members of the closely related genus *Mimosa*.

Several acacia species are important economically. Gum acacia (*Acacia senegal*), native to the Sudan region in Africa, yields true gum arabic, a

substance used in adhesives, pharmaceuticals, inks, confections, and other products. The bark of most acacias is rich in [tannin](#), which is used in [tanning](#) and in dyes, inks, pharmaceuticals, and other products. Several Australian acacias are valuable sources of tannin, among them the golden wattle (*A. pycnantha*), the green wattle (*A. decurrens*), and the [silver wattle](#) (*A. dealbata*). A few species produce valuable timber, among them the Australian blackwood (*A. melanoxylon*); the yarran (*A. omalophylla*), also of Australia; and *A. koa* of Hawaii. Many of the Australian acacia species have been widely introduced elsewhere as cultivated small trees valued for their spectacular floral displays.

The chemical composition of the essential oil and the absolute of five populations of *Acacia farnesiana*, cultivated in Greece, have been investigated. The saturated hydrocarbons tricosane, nonadecane and heneicosane, along with methyl salicylate, characterized the chemical analysis of the essential oils and the absolutes, while hexadecanoic acid and  $\alpha$ -amyrene were important constituents of some absolutes.

