Useful Fruits of Avocado Relatives

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The avocado fruit of the botanical species *Persea americana* Mill, originated in southern Mexico and Central America. It has become widespread throughout the subtropical and tropical regions because of the attractive qualities of its large fleshy fruit. While the major use of the fruit is as a fresh component of salads, several by-products such as avocado cooking oil, guacamole, avocado wine, and some dried animal feeds have been developed. Investigations on the possible utilization of botanical relatives of the avocado for breeding materials and as rootstock sources have disclosed a wide range of plant materials which like the avocado have useful and interesting fruits and plants. The present report is concerned with some of the botanical relatives of avocado which produce useful, through usually very much smaller fruits.

The botanical family Lauraceae, the laurel family, is of ancient origin, as it relates to the Magnolia types of plants which developed in the early periods of life on this earth. Presently, the surviving members of the family consist of warm and tropical species found primarily in southeast Asia, Brazil, Central America, and Mexico, though not confined to these major areas. The family Lauraceae contains approximately 2,200 species of aromatic evergreen shrubs and trees. One unusual member of the group is the dodder-laurel or woe-vine, *Cassytha filiformis* L., which is a semi-parasitic climber, with no leaves but with a small fruit, a berry, comparable to the avocado. The entire plant family is characterized by the presence of ethereal oils in the leaves and fruits. These oils together with other flavoring ingredients provide distinctive flavors which make the fruit useful as a fresh product or as a culinary ingredient in various ethnic foods.

The large fleshy fruit of avocado (*P. americana* Mill.) has been accepted in many areas as a fruit of high quality for salad or dessert. Another closely related species of *Persea*: *P. schiedeana*, the coyo, also bears large fruits up to 10-12 ounces, attractive as a fresh product. Most of the other species of *Persea* have small fruits which are generally not utilized as is the fruit of avocado.

There are several botanical relatives of avocado which produce small fruits which are generally ignored by the Western world as a food or condiment source, but which may be of interest to those who seek the unusual or use exotic materials in the culinary arts. The Malaysian area produces a number of Lauraceae, many of which are too frost tender for general planting in California; but a few are found occasionally in collections and in warm, protected microclimatic niches.

The anay, *Beilschmedia anay* Kosterm, of Central America produces a fruit with yellow-green oily flesh. This fruit is eaten out of hand. The pyriform fruit is 3 to 6 inches long
with a thin, glossy, purple black skin.

The swamp bay or red bay, *Persea borbonia* L., is a small tree or bush native to southeastern United States. The wood is hard and has been used for furniture. The fragrant leaves have been utilized to flavor soups, stews, and meat dishes. The dried leaf is sometimes made into a tea.

The camphor used in medicinal preparations is derived from extracts of twigs and wood of *Cinnamomum camphora* L. This tree, native to China and Japan, is widely planted in subtropical areas and sometimes becomes a feral pest as the birds spread the seed. A closely related *C. cassia* Blume, a native of East Asia, produces a flavoring from its bark and from the immature fruits (Cassia Buds) which are used as a spice. The dried fruit is used as a substitute for cacao bean. Another species, *C. loureirii* Nees, called the Saigon cinnamon, is cultivated for the bark which is used as a spice. The unripe fruits are dried and sold as Cassia Buds. Another species of *Cinnamomum* provides a small fruit which is eaten by children in Malacca. Such fruits are dried and ground to flavor catsup and as condiments for other foods. *Cinnamomum zeylanicum* contains 33 percent fat which is expressed and used for church candles. The cinnamon bark of commerce is produced by this latter species.

*Cryptocarya wyleii*, the red-haired laurel, is a coastal bush of South Africa which has small round fruit 1.3 cm in diameter with a rosy-apricot color and a pleasant flavor. *Cryptocarya cunninghamii*, a native of northern Australia, has a small black fruit which is said to be poisonous and should be handled with great care.

A native of California, *Umbellularia californica*, produces small fruits about olive size which can be parched and eaten or ground into flour for bread.

The genus *Litsea* is found in many tropical areas of Central America, South America, Mexico, and in the oriental areas of Malaysia, Indonesia as well as Australia and New Zealand. *Litsea thunbergii* of Malaysia bears a small fruit which is made into steamed dumplings called sajimochi. Another species, *L. glutinis* from Malaysia, has a small fruit with a sweet pulp highly suggestive of avocado in flavor. *Litsea graciae* of Indonesia and the Philippines has a fruit with a pink edible skin beneath which is a creamy white flesh. The fruit upon reaching maturity is rolled and pressed briefly as one might do with a lemon.

The mountain pepper of tropical Asia, *Litsea cubeba*, produces a highly scented fruit which is sometimes substituted for cubeb pepper in flavoring of goat's meat or fish.

The common Grecian laurel, *Lauras nobilis* L., widely planted as an ornamental in many countries, bears small dark colored berries which can be distilled as a liqueur (florivanti), a practice which is followed in some Mediterranean countries.

*Lindera benzoin*, the spicebush, is a very aromatic native shrub of eastern United States which bears smallish fruits that are sometimes eaten fresh, but are generally dried for use as a condiment for meats and stews.

The only climber in the Lauraceae is the woe-vine, *Cassytha filiformis*, the most common species found in many tropical areas. About a dozen other species, many in the coastal areas of tropical Australia, bear small round fruits, some up to one half inch in diameter. These small berries have a comparatively large seed but are similar to the
avocado fruit but with a much thinner edible layer. The fruits are eaten on occasion.

Many of the species described above and a large number of other species within the botanical family Lauraceae are of considerable value among ethnic groups, particularly in the tropical environments where they provide timbers, leaf extracts, bark extracts, and many medicinal products from the roots, fruits, seed, and flower buds.

References
Fruit tree avocado no more than 5 years, and from one tree per year you can collect about 200 fruits. The flesh of the fruit is oily, oily, yellowish-green in color. In addition to the chic taste, the avocado has useful properties. Let's consider the main ones. Avocado is very caloric, in 100 grams of the product contains 245 calories. In digestive disorders, it is also useful to eat this fruit. Avocado improves the functioning of the digestive system and is often used to treat and prevent constipation. It is also recommended for gastritis with low acidity. Very useful fruit for the eyes. It also has avocados useful properties, they have a healing effect on different organs. The fruit is able to improve memory and reduce the risk of cardiovascular diseases. More than useful avocados, so it's high the content of iron, calcium and magnesium. People with circulatory problems, as well as with a low level of hemoglobin can replenish the level of iron in the blood, eating dishes with avocados. To the question “Avocados - what is useful?” can also be answered as follows: this priceless fruit can protect you from the formation of cancerous tumors, especially in the oral cavity. For older people, avocados are useful in preventing eye loss due to the lutein contained in it. Secret in the treasury of your beauty and youth. The avocado is also qu