Phellodendron, or cork-tree, is a genus of deciduous, dioecious trees in the family Rutaceae, native to east and northeast Asia. It has leathery, pinnate leaves and yellow, clumped flowers. The name refers to the thick and corky bark of some (but not all) species in the genus.[1]

Phellodendron seeds are known from the Early Oligocene of eastern North America, from the Mid Oligocene to the Pliocene of Europe and from the Pliocene of Asia and Japan.[2]

One fossil seed of Phellodendron has been extracted from bore hole samples of the Middle Miocene fresh water deposits in Nowy Sacz Basin, West Carpathians, Poland.[3] Several Phellodendron macrofossils have been recovered from the late Zanclean stage of Pliocene sites in Pocapaglia, Italy.[4]

As an ornamental plant, Phellodendron is a tree for all seasons. In spring it has yellow flowers, in summer it provides foliage and shade, in fall the leaves turn bright yellow, and the textured bark and winding branches add interest in the winter. The female bears black drupes that attract birds and other wildlife through the late fall and winter.

The cork-tree is resistant to drought and insects, and it can thrive in a variety of soils. It is hardy to zone 4 and it is easy to maintain, sometimes to the point of being invasive. One drawback is that the drupes fall and scatter, which may be undesirable on a formal lawn.

The bark in some species is thick, resembling that of the cork oak, but is not thick enough for commercial cork production. It has been used to produce a yellow dye.

One species, Phellodendron amurense (Chinese: pinyin: huáng bei; or pinyin: huáng bò; Russian: pinyin: Barkhat Amurskiy" (Amur Velvet), also pinyin: p

The phytochemical descriptions are included for informational purposes only and not for treatment purposes. The research at this stage is very preliminary. Traditionally, the bark is the principal part of the plant used medicinally, although oil from the fruit is also used.[citation needed] The species grows in Northern China, and in the Khabarovsk and Primorskiy regions of Russia.

Already identified as a significant forest invader in the mid-Atlantic region, Phellodendron amurense is an emerging species of concern in New England, and is identified as invasive or having invasive tendencies by state and private conservation authorities.[5][6][7] Because the fruit is plentiful and high in sugars, Amur cork-tree attracts birds and mammals which help disperse its seeds. Because of its phytochemical profile and because the seedlings grow thickly, Phellodendron can out-compete other species. By suppressing reproduction of native hardwoods, Amur cork-tree can come to dominate native forests under favorable conditions. As a relatively new species of concern, its invasion biology and response to control are not well understood.