ANACARDIACEAE

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A predominantly pantropical family, extending to temperate regions, mostly of trees or shrubs, with very few lianas or scrambling shrubs; most diverse in the lowlands of the tropics. Lianas and climbing shrubs in the Neotropics are restricted to the genera *Attilaea*, *Rhus*, and *Toxicodendron*. A morphologically diverse family of ~81 genera and 800 species; represented in the Neotropics by 31 genera and ~170 species, 3 of which are lianas or climbing shrubs. *Diagnostics*: Leaves alternate, pinnately compound, and stipulate, usually with resinous, caustic exudate.

General Characters

- 1. STEMS. Cylindrical, with a regular anatomy showing wide rays. Stems of *Rhus* can reach a few centimeters in diameter and ~5 to 6 m in length, while in *Attilaea* and *Toxicodendron* they can reach 10 cm in diameter and 15 to 20 m in length.
- 2. EXUDATES. Resinous, colorless or white usually turning black on exposure, and highly toxic, causing severe dermatitis on contact.
- 3. CLIMBING MECHANISM. *Toxicodendron* climbs by means of adventitious roots; *Attilaea* and the climbing species in *Rhus* are scrambling shrubs.
- 4. LEAVES. Alternate, trifoliolate or pinnately compound, petiolate, and stipulate.
- 5. INFLORESCENCES. Produced in hanging, ascending or spreading, axillary, or distal paniculate thyrses or panicles. Inflorescences are never cauliflorous.
- 6. FLOWERS. Unisexual or bisexual, actinomorphic, 4–5-merous; sepals free nearly to the base; petals free; stamens 5 or 8–10 (when 8–10 in two unequal series), anthers dorsifixed, opening by longitudinal slits; ovary superior, 2- or 3-carpellate, syncarpous, subtended by a

more or less cupular nectary disk, style short, stigma capitate; ovule one per carpel, with basal placentation.

7. FRUITS. Fleshy drupes, enclosing a single seed.

Key to the genera of climbing Anacardiaceae

1. Root-climbing lianas with trifoliolate or less often 5-foliolate pinnate leaves	(Mexico, C.
America)	Toxicodendron
1. Scrambling shrubs; leaves 7–11-foliolate pinnate	2
2. Leaflets secondary veins not collected into a marginal vein; inflorescences of	of long (>15 cm)
paniculate thyrses (Mexico)	Rhus
2. Leaflets secondary veins collected into a conspicuous marginal vein; inflore	scence of short
(~1 cm) paniculate cymes (Mexico, Guatemala)	Attilaea

ATTILAEA E. Martínez & Ramos, Acta Bot. Hungarica 49: 353. 2007.

Deciduous, small trees, erect or scrambling shrubs, with short, basal branches modified into spines. Leaves alternate, imparipinnate, 7–13-pinnate, exstipulate; leaflets subopposite, elliptic to obovate, with revolute, crenate, ciliate margins, secondary veins collected into a conspicuous marginal vein that extend into the petiolule. Inflorescences of short paniculate cymes 6–7(–12) mm long; bracts triangular, keeled, reddish. Calyx of 5, minute, deltoid sepals of equal size; petals 5, red, oblong, free to the base; stamens 8–10, in two series of equal length; ovary superior, bicarpellate, with an annular, lobed nectary at base, partly syncarpous, each carpel bearing a short style at apex, stigma capitate. Fruit a red drupe with fleshy pericarp.

Distinctive features: Inner bark red; short, basal branches modified into spines; leaflets with a marginal collecting vein.

Distribution: A genus of a single species (*A. abalak* A. Martínez & Ramos) known from the states of Campeche and Quintana Roo, Mexico and Guatemala.

RHUS Linnaeus, Sp. Pl. 265, 1753.

Polygamous, dioecious small trees, erect or scrambling shrubs, with caustic exudate, soon



Rhus terebinthifolia, photo by P. Acevedo.

oxidizing black. Leaves
alternate, imparipinnate, 3–11pinnate or sometimes
unifoliolate; leaflets opposite
or nearly so, with crenate
margins, secondary veins not
collected into a conspicuous
marginal vein. Inflorescences
of distal or axillary panicles;

bracts and bracteoles minute, deltoid. Calyx of 5, minute, deltoid sepals of equal size; petals 5, free; stamens 5 or 10; ovary superior, 3-carpellate, syncarpous, unilocular, subtended by an annular, 10-lobed nectary disc, style terminal with 3 stigmatic branches at the apex. Fruit a laterally compressed, red or orange drupe, with fleshy pericarp, < 1 cm long.

Distinctive features: Inflorescence of panicles, flowers sessile or pedicellate.

Distribution: A genus of > 35 species distributed in the northern hemisphere (N America, Europe, Asia) south to the Philippines in the Old World and to Panama in the New World; most

species are centered in Mexico. The only scrambling species, *R. terebinthifolia* Schltdl. & Cham., is distributed from Mexico south to Costa Rica.

TOXICODENDRON Miller, Gard. Dict. Abr. Ed., 4. 1754.

Polygamous, dioecious trees, erect shrubs or root-climbing shrubs, with caustic exudate,



Toxicodendron radicans, photo by P. Acevedo.

soon oxidizing black with
exposure to air. Leaves alternate,
trifoliolate or 5-pinnate; leaflets
with crenate to dentate margins.
Inflorescences of axillary
panicles; bracts and bracteoles
minute, deltoid. Calyx of 5,
minute, deltoid sepals of equal
size; petals 5, free, reflexed,

stamens 5; ovary superior, 3-carpellate, syncarpous, unilocular, subtended by an annular 5-lobed nectary, style terminal with 3 stigmatic branches at the apex. Fruit a globose, white drupe, with fleshy pericarp.

Distinctive features: Root-climbing liana, with trifoliolate, exstipulate leaves, usually with reddish petiolules.

Distribution: A genus of ~22 species distributed in the northern hemisphere, in North America and temperate East Asia, and from southern Canada to Bolivia. The only climbing species found in the Neotropics, *T. radicans*, occurs in China, Canada, United States, and Mexico.