

The Neotropical genus *Homalolepis* Turcz. (Simaroubaceae) 1

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1 *Homalolepis arenaria*
PHOTO: I. FRANCO



2 *Homalolepis arenaria*



3 *Homalolepis arenaria*
stamens and gynoecium



4 *Homalolepis arenaria*
immature fruits



5 *Homalolepis arenaria*
immature fruits



6 *Homalolepis arenaria*
ripe fruits

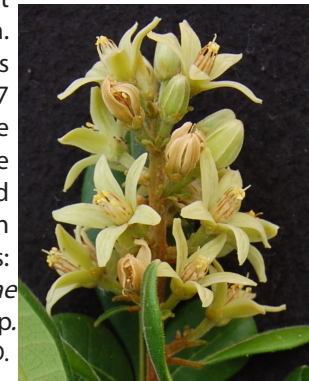
Homalolepis Turcz. is a monophyletic genus which was recently segregated from *Simaba* Aubl., based on molecular and morphological grounds (Devecchi 2017). The genus comprises 28 species of small subshrubs and shrubs to trees up to 40 m tall. The subshrubby species of *Homalolepis* are geoxylic with leaves at the ground level, mostly arising from a well-developed underground system, which enables the plant to cope with drought and fire. The leaves are predominantly imparipinnate, occasionally paripinnate, alternate and spirally arranged, each leaflet usually bearing an apical gland (extrafloral nectary). The flowers born in inflorescences that are either terminal or occasionally axillary, and they can be an indeterminate "open thyrse" or a determinate "closed thyrse" or thyrsoid. The flowers are actinomorphic, pedicellate, basically pentamerous, occasionally with a tetramerous or hexamerous perianth, with stamens appendiculate at base. The fruits of *Homalolepis* are composed by one or two, or rarely up to five, drupaceous mericarps (drupelets) originated from a gynoecium formed by carpels that are mostly free from each other but connate along the style to the stigma. The species are mainly distributed in tropical South America, with one species extending to Central America. Most species occur in Brazil within the Cerrado (17 spp.) and Atlantic forest domains (10 spp.) and only a few species are found in the Caatinga and Amazonian domains or in other countries. Most of the species are narrow endemics, two (*H. suaveolens* and *H. maiana*) are presumably extinct and several species were poorly known until recently. The infrageneric classification was updated with a new morphological circumscription of two traditional sections: *Homalolepis* sect. *Homalolepis* roughly corresponds to *Simaba* sect. *Floribundae* Engl., composed by 15 spp. and *Homalolepis* sect. *Grandiflorae* with 13 spp. Devecchi, M.F. (2017) Phylogeny and Systematics of *Simaba* Aubl. (Simaroubaceae) Ph.D. thesis. Universidade de São Paulo, São Paulo 294 pp.



7 *Homalolepis arenaria*
seedling



8 *Homalolepis bahiensis*



9 *Homalolepis bahiensis*
PHOTO: J. JARDIM



10 *Homalolepis bahiensis*
immature fruits



11 *Homalolepis bahiensis*
ripe fruits



12 *Homalolepis bahiensis*
ripe fruits



13 *Homalolepis bahiensis*
seedling



14 *Homalolepis cavalcantei*
PHOTO: D. SARAIVA

The Neotropical genus *Homalolepis* Turcz. (Simaroubaceae) 2

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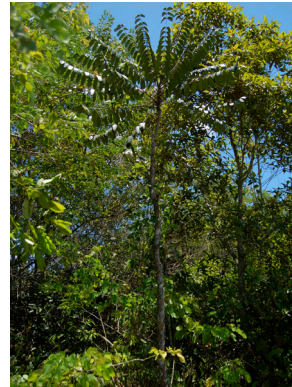
15 *Homalolepis cavalcantei*
PHOTO: D. SARAVIA



16 *Homalolepis cavalcantei*
PHOTO: D. SARAVIA



17 *Homalolepis cavalcantei*
immature fruit PHOTO: D. SARAVIA



18 *Homalolepis cedron*



19 *Homalolepis cedron*
leaflet apical gland



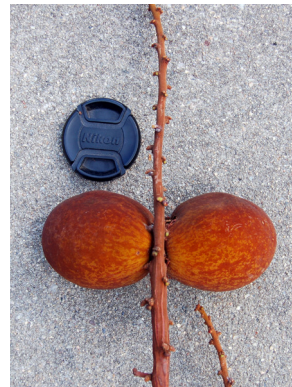
20 *Homalolepis cedron*



21 *Homalolepis cedron*



22 *Homalolepis cedron*



23 *Homalolepis cedron*
ripe fruits



24 *Homalolepis cuneata*



25 *Homalolepis cuneata*



26 *Homalolepis cuneata*
ripe fruit



27 *Homalolepis ferruginea*



28 *Homalolepis ferruginea*
PHOTO: C. SINISCALCHI



29 *Homalolepis ferruginea*



30 *Homalolepis ferruginea*
immature fruits



31 *Homalolepis ferruginea*
ripe fruits PHOTO: C. SINISCALCHI



32 *Homalolepis floribunda*
stem



33 *Homalolepis floribunda*



The Neotropical genus *Homalolepis* Turcz. (Simaroubaceae) 3

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34 *Homalolepis glabra*



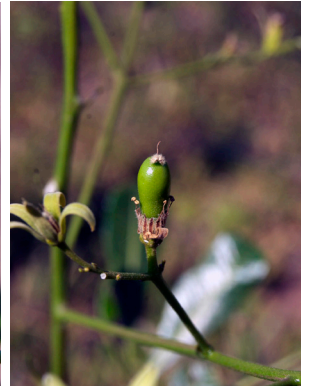
35 *Homalolepis glabra*



36 *Homalolepis glabra*



37 *Homalolepis glabra*



38 *Homalolepis glabra*
immature fruits



39 *Homalolepis* sp. nov.
guajirensis PHOTO: R. TARAZONA



40 *Homalolepis* sp. nov.
guajirensis PHOTO: R. TARAZONA



41 *Homalolepis* sp. nov.
guajirensis PHOTO: R. TARAZONA



42 *Homalolepis insignis*



43 *Homalolepis insignis*



44 *Homalolepis insignis*
immature fruits



45 *Homalolepis intermedia*



46 *Homalolepis intermedia*



47 *Homalolepis intermedia*



48 *Homalolepis paraensis*
PHOTO: C. ANDRADE



49 *Homalolepis paraensis*
PHOTO: C. ANDRADE



50 *Homalolepis paraensis*
PHOTO: C. ANDRADE



51 *Homalolepis paraensis*
ripe fruits PHOTO: C. ANDRADE



52 *Homalolepis planaltina*



53 *Homalolepis planaltina*

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54 *Homalolepis planaltina*



55 *Homalolepis praecox*



56 *Homalolepis pumila*



57 *Homalolepis pumila*



58 *Homalolepis pumila*
immature fruits



59 *Homalolepis* sp. nov. *rigida*



60 *Homalolepis* sp. nov. *rigida*



61 *Homalolepis salubris*



62 *Homalolepis salubris*



63 *Homalolepis suffruticosa*



64 *Homalolepis suffruticosa*



65 *Homalolepis suffruticosa*



66 *Homalolepis suffruticosa*
ripe fruit



67 *Homalolepis tocantina*



68 *Homalolepis tocantina*
PHOTO: G. ANTAS



69 *Homalolepis trichilioides*



70 *Homalolepis trichilioides*



71 *Homalolepis trichilioides*
ripe fruit



72 *Homalolepis warmingiana*



73 *Homalolepis warmingiana*
ripe fruit