

MORACEAE PHYLOGENY POSTER

PLANT
PHYLOGENY
POSTERS
ON
RESEARCHGATE



MOREAE

trees/shrubs; mono-dioecious
vs alternately opposite, distichous/spiral
stipules either lateral or amplexicaul
infr. unisexual, unilobed or racemose; spicate,
racemose (often globose) or umbellate (Ficus);
bracteate, T4, free to connate
infr. with numerous fls, 14-3, A5, normally positioned or 1-3 in cavities in receptacle
infr. with 2-4 (rarely 1) ovules; pistiloid usu. +
fr drupaceous or achene-like
fr persistent, fleshy
(dehiscent in some *Streblus* s.l.) or not
seeds without endosperm
testa usu. with thick vascularized part below hilum
cotyledons (unequal), straight or folded

ARTOCARPEAE

trees/shrubs; monoecious
infr. unisexual
A(2), filaments straight in bud

CHLOROPHOREAE

PARARTOCARPEAE

shrub/large tree, mono-dioecious
abundant white exudate
stipules axillary, simple or pinnate, lateral
infr. solitary/paired in leaf axils, unisexual (or bisexual with a single spical fl), unilobed, unilobed, or capitate
stamens or ovaries sunken into receptacle; pedunculate; involucre of 3-8 triangular bracts, basally connate
infr. with numerous fls, 14-3, A5, normally positioned or 1-3 in cavities in receptacle
with the anthers exerted through perforations in upper surface of receptacle, filaments free or united
infr. unilobed or (sub)globose with ovaries solitary in each cavity, unilocular, style apical with a short exserted stigma
fr drupaceous, enclosed by persistent T, or aggregated into syncarpus formed by enlargement of entire infr.

DORSTENIEAE

trees, shrubs, lianas, and herbs, monoecious (dioecious)
vs alternate, less commonly subopposite, distichous or spirally
stipules lateral to fully amplexicaul
infr. unilobed, unilobed, or discoid to turbinate
or cup-shaped, multiflorous or unilobed (the latter in
bracteate or not, infr. bracts mostly peltate
fls: T(1-2) or absent, A1-4
filaments straight or inflexed in bud, pistiloid + or (more often) -
fr free or connate or embedded in the receptacle, T2-4,
ovary free, or connate, or 2 (unequal)
fr drupaceous due to persistent fleshy P and/or receptacle,
whole endocarp unit often laterally fused from infr.
seeds without endosperm, large/small
cotyledons (unequal)

OLMEDIAE

trees/shrubs, mono-dioecious (or androdioecious)
vs alternately opposite, distichous or spirally
stipules lateral to amplexicaul
infr. mostly unisexual, capitate, mostly discoid to
urceolate, involucre, T4 (mostly), connate or not
infr. usu. -flowered; A4 or fewer, filaments straight
or often inflexed in bud, pistiloid mostly
ovary free or not, stigmas 2, filiform
fr mostly drupaceous, mostly enclosed by a fleshy P
or embedded in a fleshy receptacle
seeds with/without endosperm
testa thin, vascularized
cotyledons mostly equal

FICEAE

trees, shrubs, climbers, stragglers, or woody epiphytes; di- or monoecious; vs usu. alternate
infr. urceolate (syconium) bisexual (with all three kinds of fls) or functionally unisexual (either with
fr (fig) syncarp (mainly from infr. wall)
gynoecium)

MORACEAE
Fig Family
mostly woody
laticifers, latex milky (in most)
Ivs spiral, with reticulate (boxy), fine venation
stipules ensheathing stem
infr. congested (flowers in complex infis,
occ. with congenital fused branches)
flw 4-merous, unisexual
fr: bracts peltate
fr an achene (or drupe)
with infr. axis and P later accrescent, fleshy

48 genera
~1200 species

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COLE TCH, GARDNER EM (2023) MORACEAE PHYLOGENY POSTER

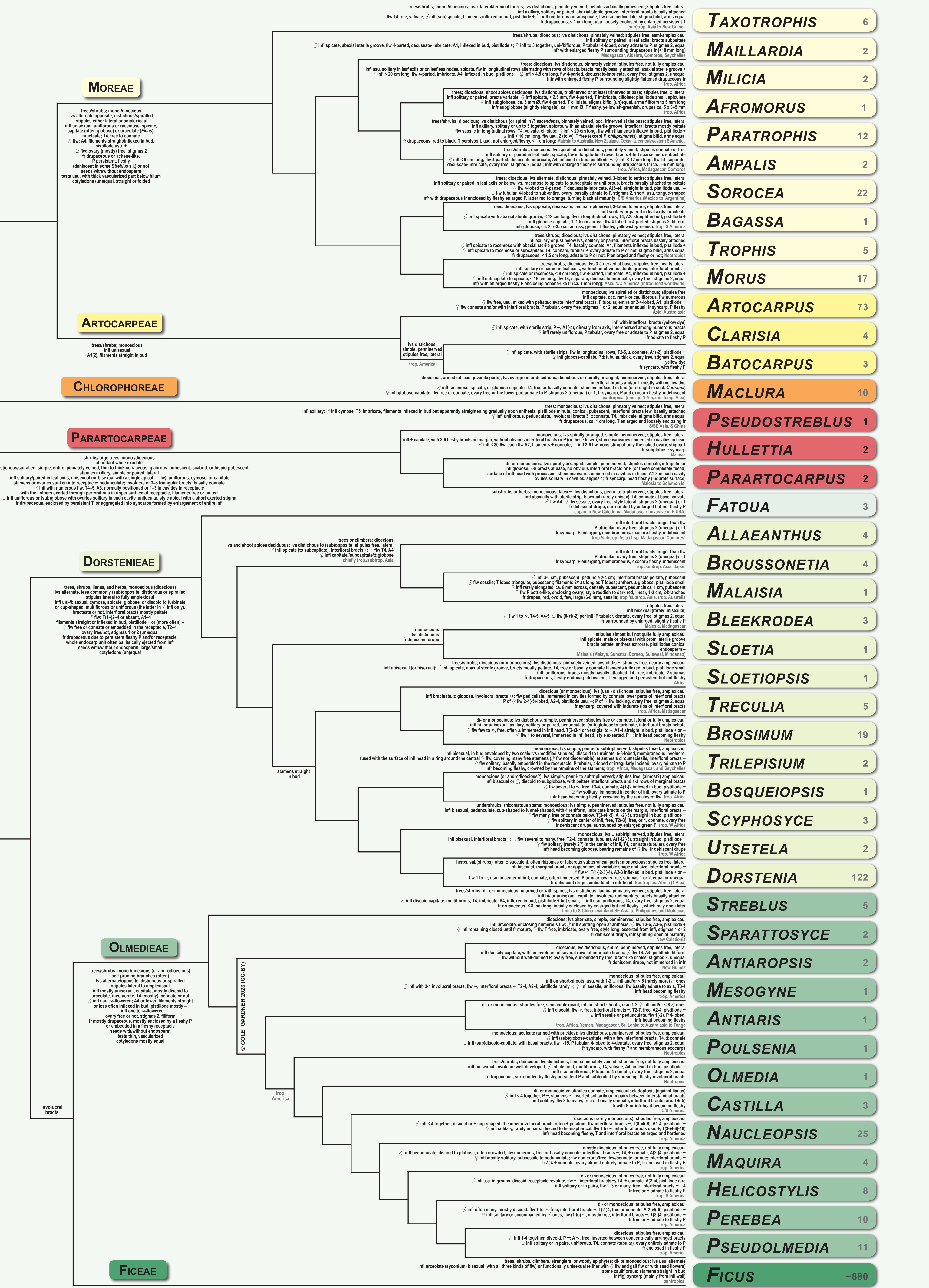
- subfamilies, tribes, and genera with plesio-/apomorphic and (non)diagnostic traits
- hypothesis tree based on molecular phylogenetic data (up to 2023) updated regularly
- 48 genera with ca. 1200 species
- phylogeny, classification, and features assembled from the References below
- branch lengths deliberated, not expressing actual time scale
- the characters listed do not necessarily apply to all members of the respective clade
- species numbers (in gray) are approximate (from POWO, Plants of the World Online)

Notes
Brosimum including *Helianthostylis* and *Trymactococcus*
Pachytrape sunk into *Ampelis*
Prainea sunk into *Artocarpus* (Zerega et al. 2010)
Utsetela and *Scyphosyce* each nested in separate distinct clades with several species of *Dorstenia*

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Abbreviations
+ present, + very common/abundant, - absent, = many, occ. occasionally, s.l. sometimes, usu. usually
A androecium/stamens, C corolla, G gynoecium, K calyx, P perianth, T tepals
fl flowers, fr fruit, infr. infructescence, infr. infructescence, vs leaves

Special thanks to Julian Bachelder, Hartmut H. Hilger, Peter F. Stevens, and D.D. Sokoloff for valuable comments and suggestions



ROSACEAE

- BARBEYACEAE
- DIRACHMACEAE
- RHAMNACEAE
- ELEAGNACEAE
- ULMACEAE
- CANNABACEAE
- URTICACEAE
- MORACEAE

ROSALES