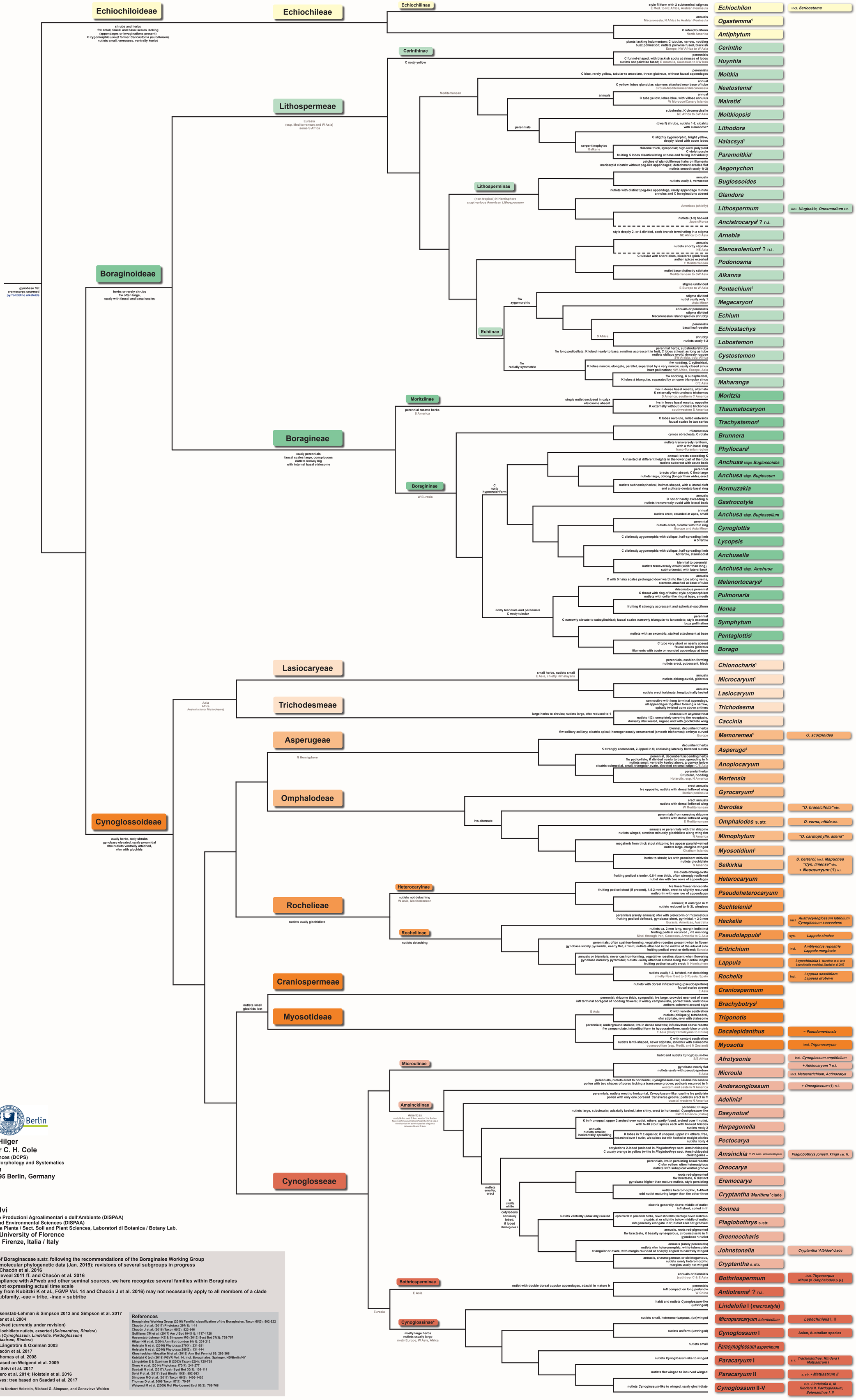
Boraginaceae Phylogeny Poster



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- infrafamiliar classification of Boraginaceae s.str. following the recommendations of the Boraginales Working Group
- hypothetical tree based on molecular phylogenetic data (Jan. 2019); revisions of several subgroups in progress
- gross phylogeny based on Chacón et al. 2016
- suprageneric names after Reveal 2011 ff. and Chacón et al. 2016
- contrary to APG, but in compliance with APweb and other seminal sources, we here recognize several families within Boraginales
- branch lengths deliberate, not expressing actual time scale
- the characters listed (largely from Kubitzki K et al., FGVP Vol. 14 and Chacón J et al. 2016) may not necessarily apply to all members of a clade
- -aceae = family, -oideae = subfamily, -eae = tribe, -inae = subtribe

[1] monospecific genera

Amsinckiinae: tree based on Hasenstab-Lehman & Simpson 2012 and Simpson et al. 2017
Boragininae: tree based on Hilger et al. 2004
*Cynoglossinae: only partly resolved (currently under revision)
paraphyletic taxa with generally glochidiate nutlets, exserted (*Solenanthus, Rindera*)
or inserted stamens and wingless (*Cynoglossum, Lindelofia, Pardoglossum*)
to extremely winged nutlets (*Mattiastrum, Rindera*)
Echiochiloideae: tree based on Långström & Oxelman 2003
Lasiocaryeae: tree based on Chacón et al. 2017
Lithospermeae: tree based on Thomas et al. 2008
Lithosperminae/Echiinae: tree based on Weigend et al. 2009
Megacaryon: position based on Selvi et al. 2017
Omphalodeae: tree based on Otero et al. 2014; Holstein et al. 2016
Pseudoheterocaryum and relatives: tree based on Saadati et al. 2017

Thanks for valuable advice and support to Norbert Holstein, Michael G. Simpson, and Genevieve Walden

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