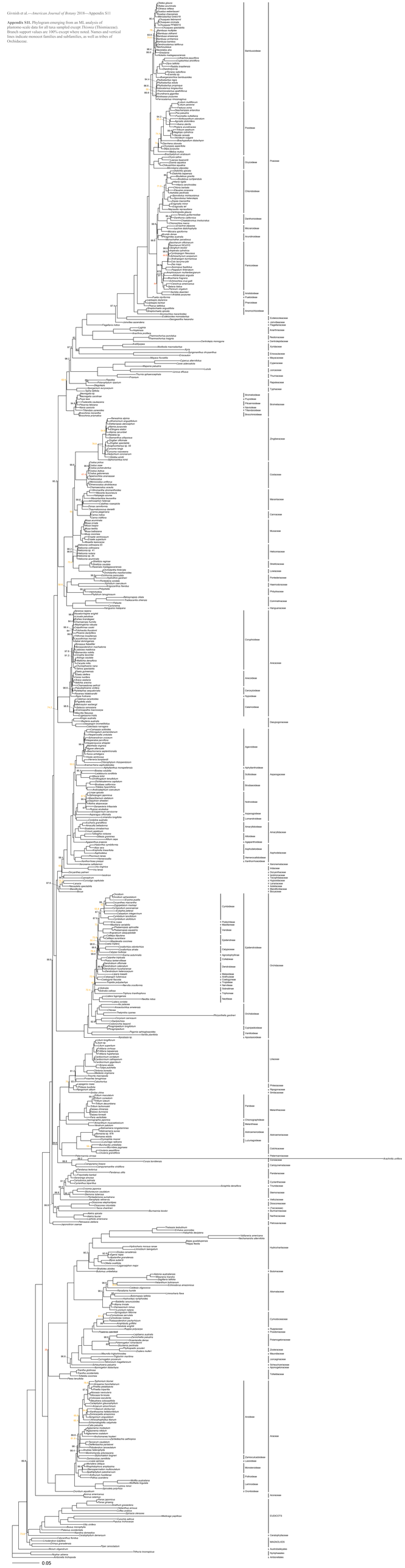
Appendix S11. Phylogram emerging from an ML analysis of plastome-scale data for all taxa sampled except *Thismia* (Thismiaceae). Branch support values are 100% except where noted. Names and vertical lines indicate monocot families and subfamilies, as well as tribes of Orchidaceae.


Bambusoideae
Poaceae
Oryzoideae
Chloridoideae
Dasyphonioideae
Micrairoideae
Arundinoideae
Panicoideae
Anidrioideae
Puelioideae
Pharoideae
Anomochloideae
Ecdeiocolaceae
Joinvilleaceae
Flagellariaceae
Anarthriaceae
Restionaceae
Centrolepidaceae
Xyridaceae
Eriocaulaceae
Mayacaceae
Cyperaceae
Juncaceae
Thurniaceae
Rapateaceae
Typhaceae
Bromeliaceae
Pontederiaceae
Philydraceae
Pickeriaceae
Navioideae
Tillandsioideae
Broschneoideae
Zingiberaceae
Costaceae
Marantaceae
Cannaceae
Musaceae
Heliconiaceae
Strelitziaceae
Lowiaceae
Pontederiaceae
Haemodoraceae
Philydraceae
Commelinaceae
Hanguanaceae
Corsiaceae
Dioscoreaceae
Nartheciaceae
Petrosaviaceae
Hydrocharitaceae
Butomaceae
Alismataceae
Aponogetonaceae
Tofieldiaceae
Acoroideae
Araceae
Dasmoniaceae
Lecidoceae
Monsteroideae
Pothoideae
Lemnoideae
Orontioideae
Acoraceae
EUDICOTS
Ceratophyllaceae
MAGNOLIIDS
Austrobaileyales
Nymphaeales
Amborellales
Ophioglossaceae
Psilotaceae
Lycopodiaceae
Selaginellaceae
Equisetaceae
Marattiaceae
Osmundaceae
Hymenophyllaceae
Cyatheaceae
Dicksoniaceae
Thelypteridaceae
Aspleniaceae
Dennstaedtiaceae
Pteridaceae
Cystopteridaceae
Onocleaceae
Blechnaceae
Aspidiaceae
Salviniaceae
Marsileaceae
Lycopodiaceae
Pteridaceae
Cyrtomium falcatum
Polystichum acrostichoides
Dryopteris marginalis
Dryopteris cristata
Dryopteris carthusiana
Dryopteris goldiana
Dryopteris filix-mas
Dryopteris expansa
Dryopteris fragrans
Dryopteris intermedia
Dryopteris ludoviciana
Dryopteris celsa
Dryopteris wallichiana
Dryopteris sieboldii
Dryopteris erythrosora
Dryopteris tokyoensis
Dryopteris varia
Dryopteris sparsa
Dryopteris lepidopoda
Dryopteris lepidopoda
Dryopteris lepidopoda