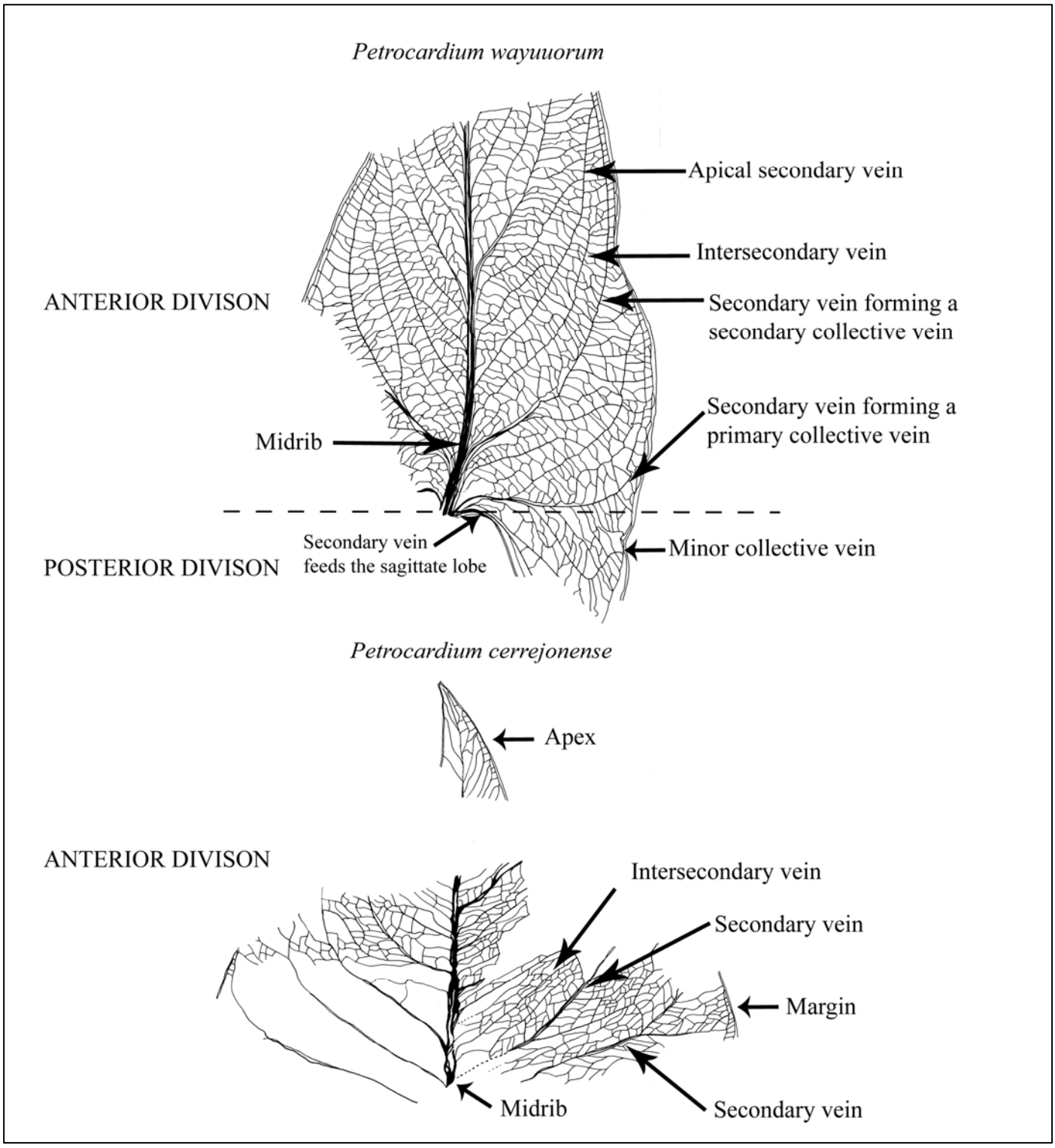
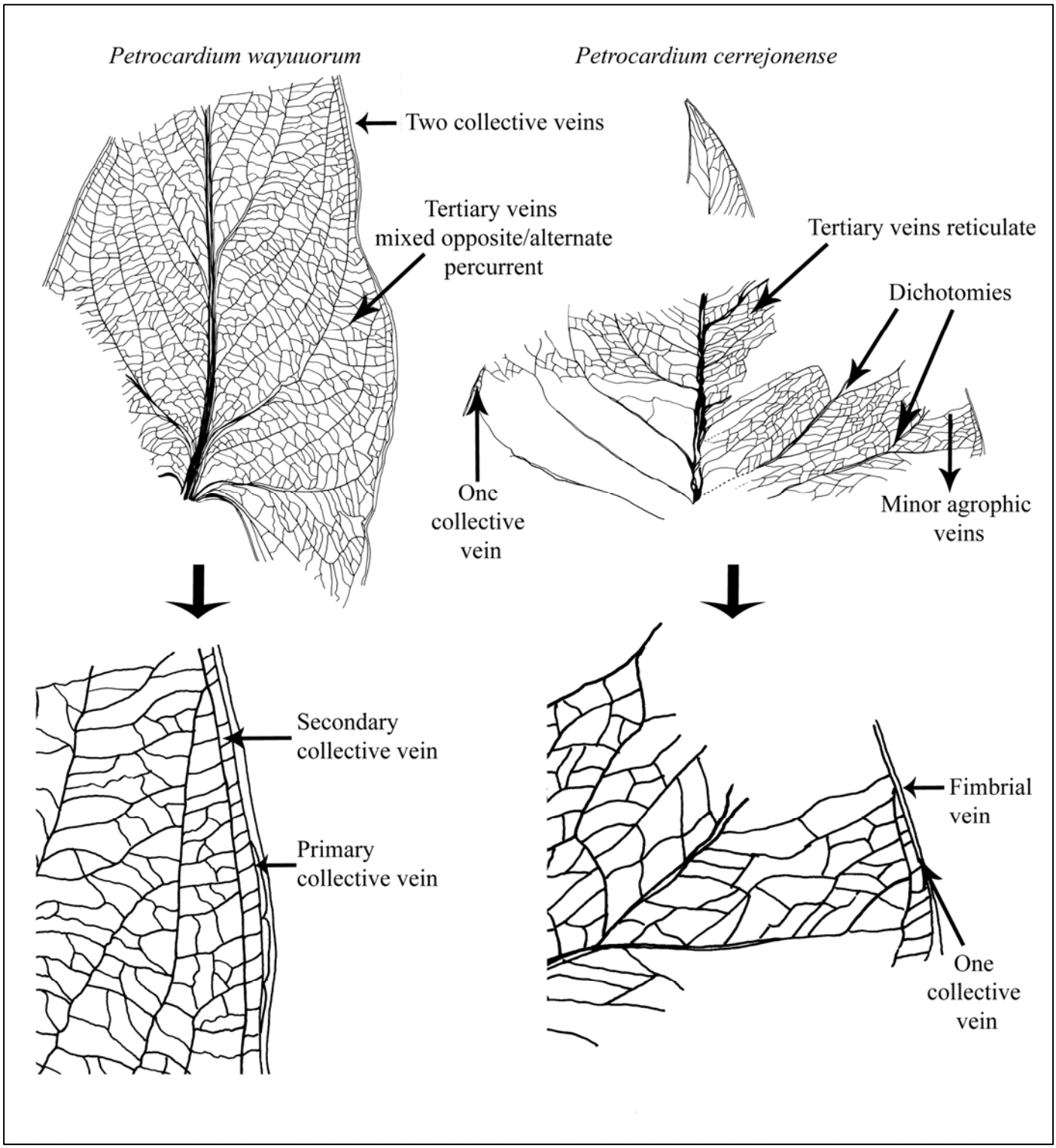


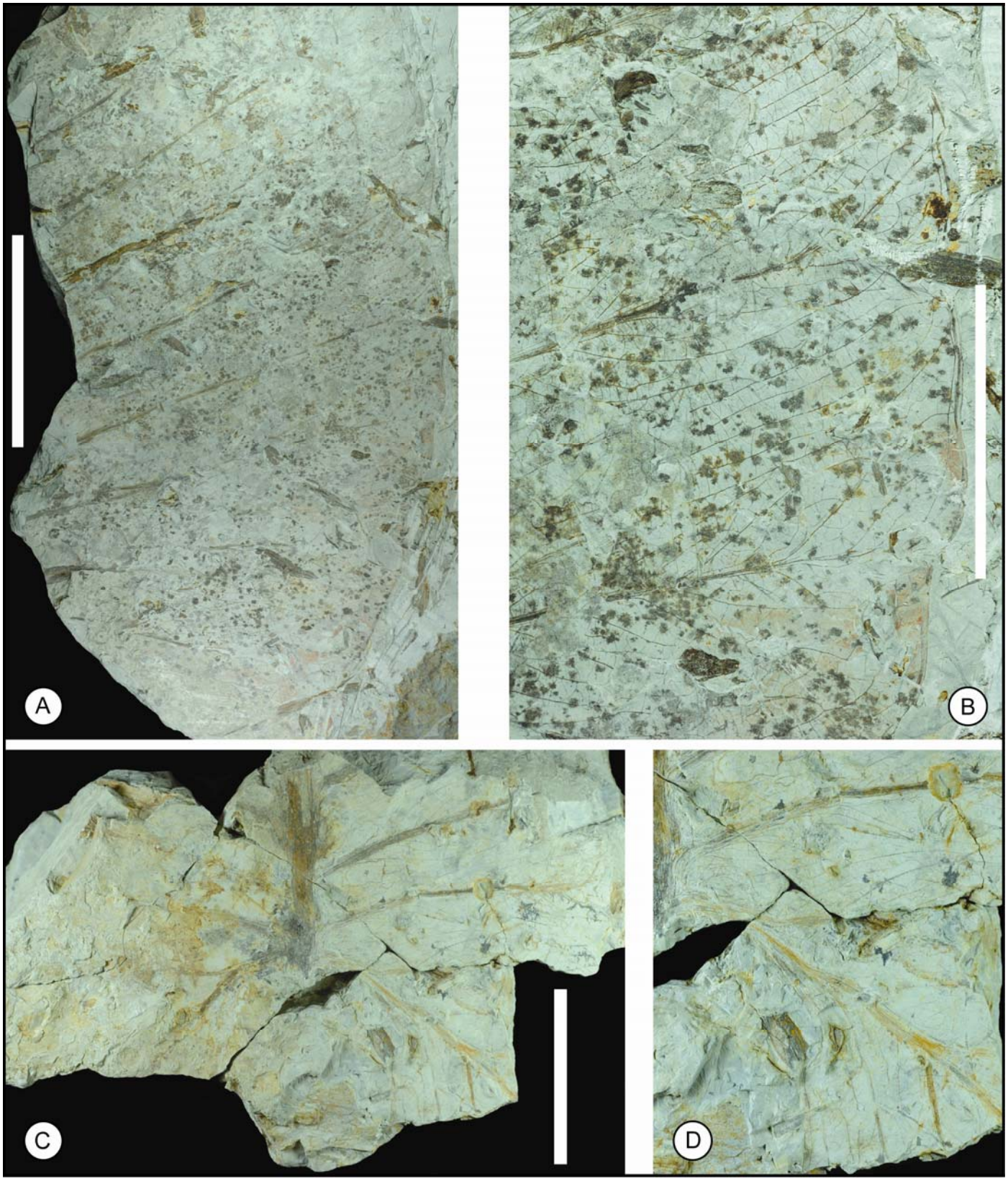
S1. Drawing of veins of *Petrocardium wayuuorum* and *Petrocardium cerrejonense*, showing main leaf venation patterns.



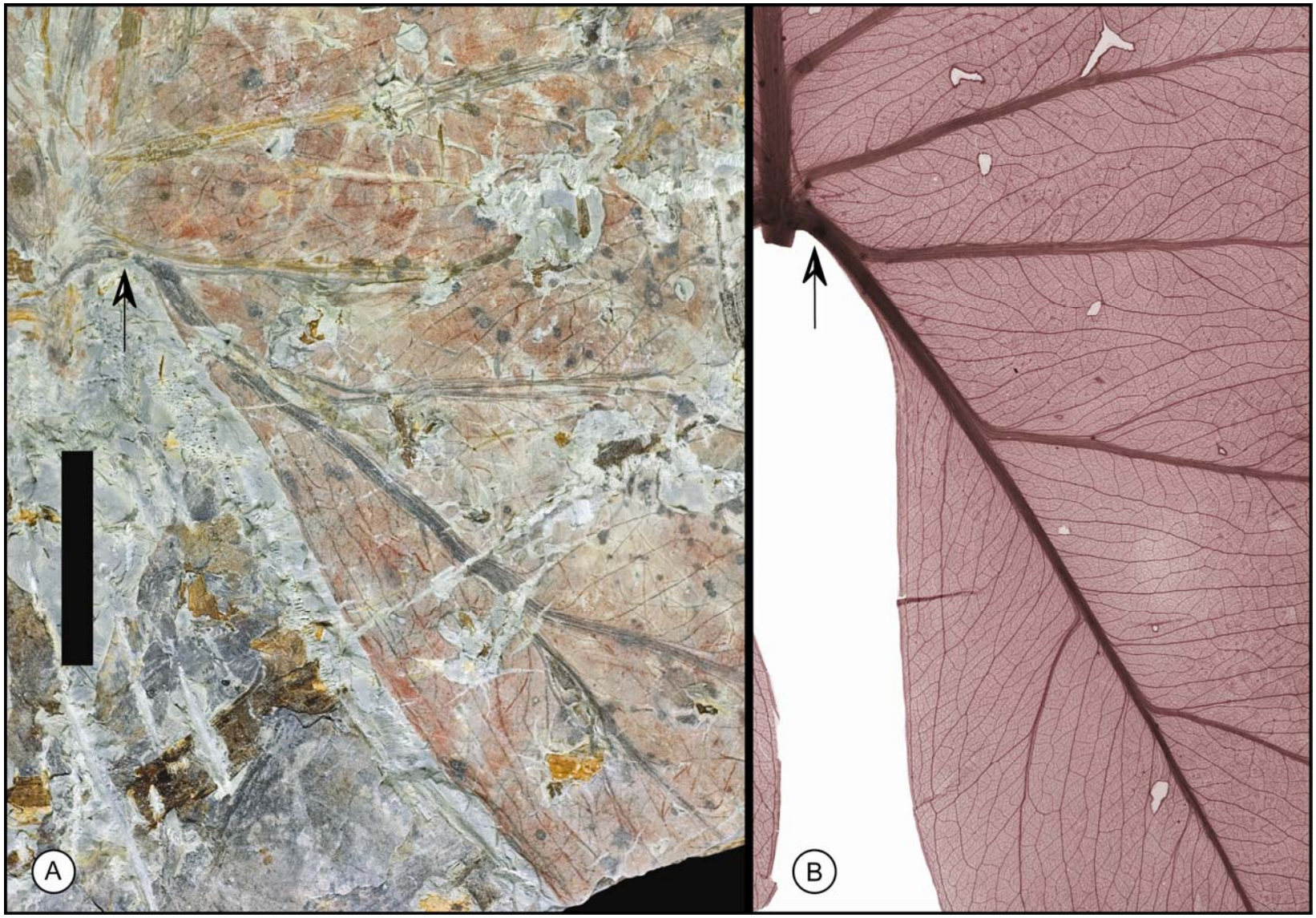
S2. Drawing of veins of *Petrocardium wayuuorum* and *Petrocardium cerrejonense*, showing morphological differences of leaf venation patterns.

S3. Extant *Anthurium* species similar to *Petrocardium wayuuorum*, these modern species have two collective veins running along the margin. *A. oxybelium* Schott (National Herbarium, #3421516), *A. variegatum* Sodiro (N.H 1705832), *A. subsagitatum* (Kunth) Kunth (N.H 2925614), *A. nigrescens* Engl (N.H. 3481423), *A. marmoratum* Sodiro (N.H. 3480020), *A. karstenianum* Engl (N.H. 1572771), *A. concinnatum* Schott (1252883).

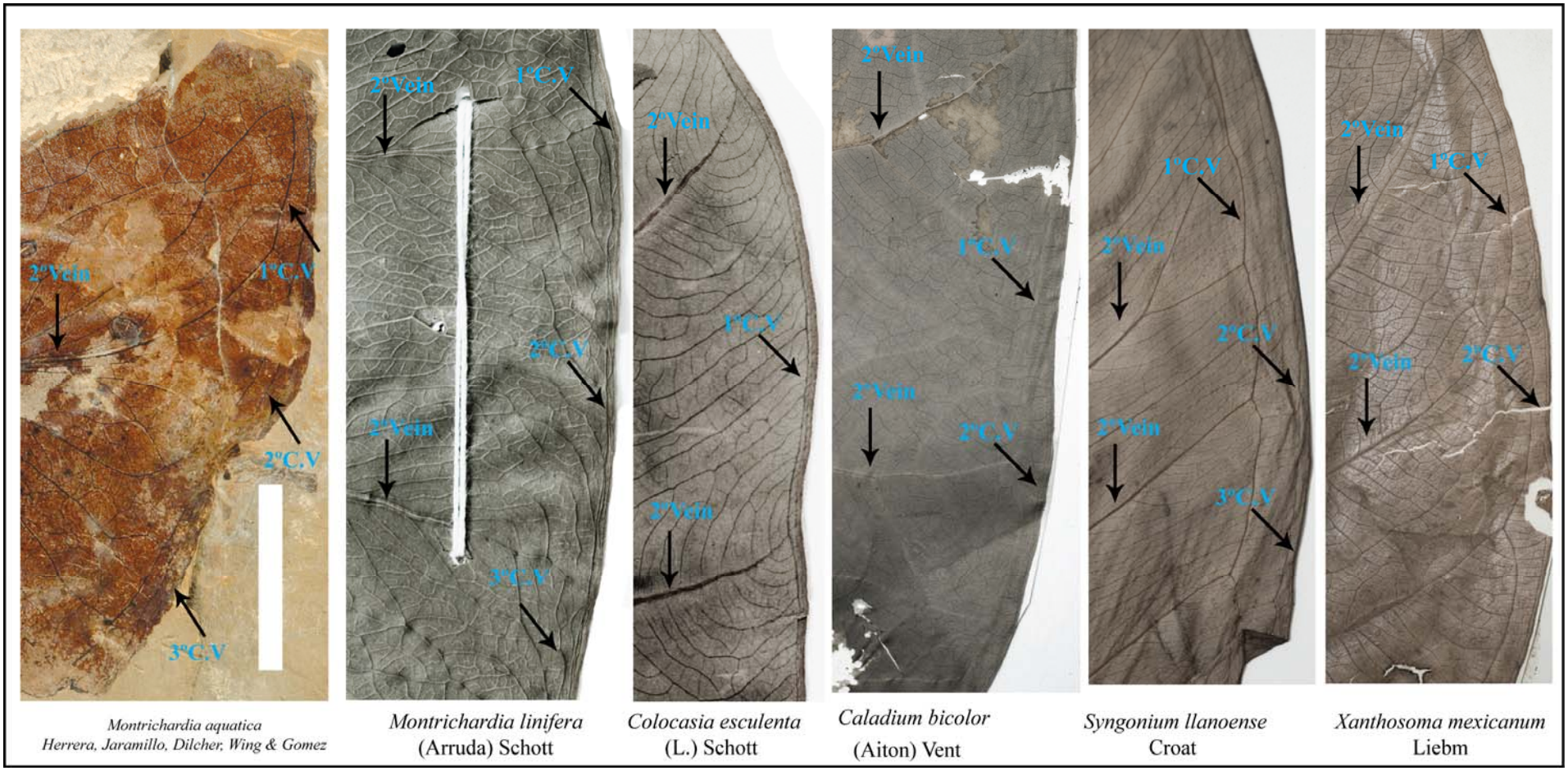
S4. Extant *Anthurium* species similar to *Petrocardium cerrejonense*, these modern species have one collective vein running along the margin. *A. brownii* Mast (N.H. 1771729), *A. rzedowskii* Croat (N.H. 2801327), *A. coripatense* N.E.Br. ex Engl (N.H. 1353771), *A. hoffmannii* Schott (N.H. 1643119), *A. cotobrusii* Croat & R.Baker (N.H. 3144966).


A
B
C
D

S5. *Montrichardia aquatica* gen. nov. sp. nov. Paratypes (ING-0905, Figs. A-B; ING-0906, Figs. C-D). A. Fossil leaf preserves half of the blade with eleven secondary veins, scale 10 cm. B. Close up of secondary veins branching toward the margin, notice several collective veins, scale 3 cm. C. Fossil leaf preserves a fraction of the posterior division of the blade, scale 3 cm. Close up of right lobule, notice naked basal veins.



S6. Comparison of leaf bases between *Montrichardia aquatica* (A) and *Montrichardia arborescens* (L.) Schott (B) (NH #3307839), notice similarity in naked basal veins (arrows), basal secondary veins and intersecondary venation.



S7. Comparison of secondary veins and collective veins patterns between *Montrichardia aquatica* and extant genera of Araceae. *Montrichardia aquatica* has an extremely similar collective venation pattern as living *Montrichardia*. Notice as the secondaries merge bluntly with one to three straightened collective veins in *Colocasia*, *Caladium*, *Syngonium*, and *Xanthosoma*, while the secondaries in the fossil and *Montrichardia* branch very close to the margin subsidized by higher order veins that finally form several collective veins, also the spacing and course of these collective veins are very irregular compared to tribes Caladieae and Colocasieae where the collective veins run very parallel to margin and each other, and the vein spacing is kept constant. 2º vein (secondary veins), C.V (collective veins).