

CHARLES C. DAVIS AND MARK W. CHASE. 2004. Elatinaceae are sister to Malpighiaceae; Peridiscaceae belong to Saxifragales. *American Journal of Botany* 91(2): 262-273.

Appendix 1. Taxa sequenced and GenBank accession numbers. Herbarium acronyms follow Holmgren et al. (1990).

| Taxon | Voucher | Plastid | | Nuclear |
|---|--------------------------------|-------------|---|-------------|
| | | <i>ndhF</i> | <i>rbcL</i> | <i>PHYC</i> |
| Achariaceae | | | | |
| <i>Acharia tragodes</i> Thunb. | Cloete s.n. (BOL) | AY425028 | AJ418795 | |
| <i>Hydnocarpus</i> sp. | Chase 1301 (K) | AY425058 | AF206783 | |
| | | | (misdet as <i>Ixonanthes</i> <i>icosandra</i>) | |
| Balanopaceae | | | | |
| <i>Balanops vieillardii</i> Baill. | Chase 1816 (K) | AY425032 | AF089760 | AY425090 |
| Bonnetiaceae | | | | |
| <i>Archytaea multiflora</i> Benth. | Kubitzki & Feuerer 97-26 (HBG) | AY425029 | AY380342 | |
| <i>Bonnetia ahogadoi</i> (Steerm.) A. L. Weitzman & P. F. Stevens | Weizman et al. 409 | AY425035 | AJ402930 | |
| Caryocaraceae | | | | |
| <i>Caryocar glabrum</i> Pers. | Mori 22997 (NY) | AY425039 | Z75671 | |
| Celastraceae* | | | | |
| <i>Denhamia celastroides</i> (F. Muell.) L. W. Jessup | Chase 2050 (K) | AY425043 | AJ402941 | AY425097 |
| <i>Elaeodendron orientale</i> Jacq | Chase 1213 (K) | | AY380347 | AY425103 |
| <i>Maytenus arbutifolia</i> (Hochst. ex A. Rich.) R. Wilczek | Collenette 2/93 (K) | | AY380352 | AY425116 |
| <i>Maytenus senegalensis</i> (Lam.) Exell | Collenette 4/93 (K) | AY425068 | AY380353 | AY425117 |
| <i>Stackhousia minima</i> Hook. f. | Molloy s.n. (CHR) | | AJ235795 | AY425131 |

Chrysobalanaceae

| | | | | |
|--|----------------------|----------|----------|----------|
| <i>Atuna racemosa</i> Rafin. | Chase 2118 (K) | AY425030 | AF089758 | AY425088 |
| <i>Hirtella bicornis</i> Mart. & Zucc. | Ducke Res 2-303Z.489 | AY425055 | AF089756 | AY425109 |

Clusiaceae

| | | | | |
|---|-----------------|----------|----------|----------|
| <i>Calophyllum soulattri</i> "Burm." ex F.Mull. | Chase 1217 (K) | AY425037 | Z75672 | AY425093 |
| <i>Clusia gundlachii</i> Stahl | Chase 341 (NCU) | AY425041 | Z75673 | AY425095 |
| <i>Mesua</i> sp. | Coode 7884 (K) | AY425069 | AF206962 | AY425118 |

Ctenolophonaceae

| | | | | |
|--|-----------------|--|----------|--|
| <i>Ctenolophon englerianus</i> Mildbr. | Dourse 1572 (K) | | AJ402940 | |
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Dichapetalaceae

| | | | | |
|---------------------------------------|----------------|----------|----------|----------|
| <i>Dichapetalum macrocarpum</i> Engl. | Fison s.n. (K) | AY425044 | AF089764 | AY425098 |
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Dilleniaceae*

| | | | | |
|--------------------------------------|----------------|----------|--------|----------|
| <i>Dillenia philippinensis</i> Rolfe | Chase 2102 (K) | AY425045 | L01903 | AY425099 |
|--------------------------------------|----------------|----------|--------|----------|

Elatinaceae

| | | | | |
|--|-----------------------------|----------|----------|----------|
| <i>Bergia texana</i> Seub.ex Walp. (Accession 1) | Sanders 13525 (MICH) | AY425033 | AY380344 | AY425091 |
| <i>Bergia texana</i> Seub.ex Walp. (Accession 2) | Felger 86-44 (MICH) | AY425034 | AY380345 | AY425092 |
| <i>Elatine triandra</i> Schkuhr (Accession 1) | Brunton et al. 13384 (MICH) | AY425049 | AY380348 | AY425104 |
| <i>Elatine triandra</i> Schkuhr (Accession 2) | Crins & Stabb 9600 (MICH) | AY425050 | AY380349 | AY425105 |

Euphorbiaceae

| | | | | |
|--|---------------------|----------|----------|----------|
| <i>Acalypha californica</i> Benth. | Levin 2192 | AY425027 | AY380341 | AY425087 |
| <i>Croton alabamensis</i> E. A. Smith ex Chapman | Wurdack 08 | AY425042 | | AY425096 |
| <i>Endospermum moluccanum</i> Becc. | Chase 1258 (K) | AY425051 | AJ402950 | AY425106 |
| <i>Homalanthus populneus</i> Pax | Chase 1266 (K) | AY425056 | AY380350 | AY425110 |
| <i>Neoscortechinia kingii</i> Pax & K. Hoffm. | Chase 1265 (K) | AY425071 | AJ402977 | AY425121 |
| <i>Pera bicolor</i> Muell. Arg. | Gillespie 4300 (US) | AY425075 | AY380355 | AY425124 |

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|--|--|-----------|-----------------------|-----------|
| <i>Pimelodendron zanthogyne</i> J. J. Sm. | Chase 1268 (K) | AY425079 | AJ418812 | AY425128 |
| Euphroniaceae | | | | |
| <i>Euphronia guianensis</i> (R. H. Schomb.) H. Hallier | Mori 23699 (NY) | AY425052 | AF089762 | |
| Goupiaceae | | | | |
| <i>Goupia glabra</i> Aubl. | Prevost 3031 (CAY) | AY425054 | AJ235780 | AY425108 |
| Humiriaceae | | | | |
| <i>Vantanea guianensis</i> Aubl. | Pennington 13855 (K) | AY425086 | Z75679 | AY425132 |
| Hypericaceae | | | | |
| <i>Hypericum empetrifolium</i> Willd. | Chase 837 (K) | AY425060 | AF206779 | AY425113 |
| Irvingiaceae | | | | |
| <i>Irvingia malayana</i> Oliv. | Simpson 2638 (K?) | AY425061 | AF123278 | |
| Ixonanthaceae | | | | |
| <i>Ixonanthes chinensis</i> Champ. | Chen 9812087 | AY425062 | | |
| Lacistemataceae | | | | |
| <i>Lacistema aggregatum</i> Rusby | Pennington et al. 583 (K) | AY425064 | AF206787 | |
| Linaceae | | | | |
| <i>Hugonia platysepala</i> Welw. Ex Oliv. | Gereau et al. 5201 (MO) | AY425057 | Z75678 | AY425111 |
| <i>Linum arboreum</i> Linn. | Chase 478 (K) | AY425066 | AY380351 | |
| Lophopyxidaceae | | | | |
| <i>Lophopyxis maingayi</i> Hook.f. | Falanrum 3581; [H. Adelbai P-10203] (US) | | AJ402970; AJ403026 | |
| Malesherbiaceae | | | | |
| <i>Malesherbia linearifolia</i> Poir. | Chase 609 (K) | AY425067 | AF206792 | |
| Malpighiaceae | | | | |
| <i>Acridocarpus natalitius</i> Adr. Juss. | Goldblatt s.n. (PRE) | AF351016♣ | AF344455 | AF500531♦ |

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|---|-----------------------|-----------|-----------------------|-----------|
| <i>Byrsonima crassifolia</i> (L.) H.B.K. | FTG 81-680A (MICH) | AF351011♣ | L01892 | AF500526♦ |
| <i>Dicella nucifera</i> Chodat | Anderson 13607 (MICH) | AF351048♣ | AJ235802 | AF500553♦ |
| <i>Thryallis longifolia</i> Mart. | Anderson 13657 (MICH) | AF351046♣ | AF344516 | AF500551♦ |
| Ochnaceae | | | | |
| <i>Cespedesia bonplandii</i> Goudot | Chase 1325 (K) | AY425040 | AJ420168 | AY425094 |
| <i>Ochna multiflora</i> DC. | Chase 229 (NCU) | AY425072 | Z75273 | AY425122 |
| <i>Ochna</i> sp. | Davis 31-01 (A) | AY425073 | AY380354 | AY425123 |
| <i>Quiina pteridophylla</i> (Radlk.) Pires | Murça Pires (CPATU) | AY425081 | Z75689 | AY425130 |
| Pandaceae | | | | |
| <i>Galearia filiformis</i> Boerl. | Chase 1334 (K) | AY425053 | AJ418818 | AY425107 |
| <i>Microdesmis puberula</i> Hook. f. | Cheek 5986 (K) | AY425070 | AJ402975; AJ403029 | AY425120 |
| Passifloraceae | | | | |
| <i>Passiflora coccinea</i> Aubl. | Chase 2475 (K) | AY425074 | L01940 | |
| Peridiscaceae* | | | | |
| <i>Peridiscus lucidus</i> Benth. | Soares 205 (CEPEC) | AY425076 | AY380356 | AY425125 |
| Phyllanthaceae | | | | |
| <i>Lachnostylis bilocularis</i> R. A. Dyer | Chase 1960 (K) | AY425063 | AJ418813 | AY425114 |
| <i>Phyllanthus epiphyllanthus</i> L. | Wurdack [FTG-6450A] | AY425078 | AY380358 | AY425127 |
| Picrodendraceae | | | | |
| <i>Androstachys johnsonii</i> Prain | Chase 1904 (K) | AF500495♦ | AJ402922 | AF500522♦ |
| <i>Austrobuxus megacarpus</i> P. I. Forster | Forster 21239 (BRI) | AY425031 | AY380343 | AY425089 |
| <i>Dissiliaria muelleri</i> Baill. | Forster 14629 (BRI) | AY425046 | AY380346 | AY425100 |
| <i>Micrantheum hexandrum</i> Hook. f. | Chase 1940 (K) | | AJ418816 | AY425119 |
| <i>Petalostigma pubescens</i> Domin | Clifford s.n. | AY425077 | AY380357 | AY425126 |

Podostemaceae

Podostemum ceratophyllum Michx. Cusick 30042 (NY) AJ418819 AY425129

Putranjivaceae

Drypetes (Putranjiva) roxburghii (Wall.) Hurus. Wurdack [FTG-83463A] AY425048 M95757 AY425102

Rhizophoraceae (includes Erythroxylaceae)

Bruguiera gymnorrhiza Lam. Chase 12838 (K) AY425036 AF127693

Carallia brachiata (Lour.) Merr. Chase 2151 (K) AY425038 AF206744

Salicaceae

Dovyalis rhamnoides Burch. ex Harv. & Sond. Chase 271 (NCU) AY425047 Z75677 AY425101

Populus maximowiczii Henry Chase 996 (K) AY425080 AJ418836

Salix reticulata L. Chase 840 (K) AY425082 AJ235793

Scyphostegia borneensis Stapf. Beaman 911 (BH) AY425083 AJ403000

Trigoniaceae

Trigonia nivea Cambess. Anderson 13656 (MICH) AY425084 AF089761

Turneraceae

Turnera ulmifolia L. Chase 220 (NCU) AY425085 Z75691

Violaceae

Hymenanchera alpina (T.Kirk) W.R.B.Oliv. Chase 501 (K) AY425059 Z75692 AY425112

Leonia glycyarpa Ruiz. & Pav. Pennington 13852 (K) AY425065 Z75693 AY425115

* Indicates outgroups

♣ Previously sampled from Davis et al. (2001)

◆ Previously sampled from Davis et al. (2002a)