

AUSTIN R. MAST AND THOMAS J. GIVNISH. 2002. Historical biogeography and the origin of stomatal distributions in *Banksia* and *Dryandra* (Proteaceae) based on their cpDNA phylogeny. *American Journal of Botany* 89(8): 1311-1323.

Supplement. Collection data.

| Taxon  | Voucher/Source                            | GenBank accession number |                            |                     |                            |                            |
|--|---|--------------------------|----------------------------|---------------------|----------------------------|----------------------------|
|  |   | <u>trnL</u><br>intron    | <u>trnL/trnF</u><br>spacer | <u>rpl16</u> intron | <u>psbA/trnH</u><br>spacer | <u>trnT/trnL</u><br>spacer |
| Genus <u>Banksia</u> L.f.                      |   |                          |                            |                     |                            |                            |
| Subgenus <u>Isostylis</u> R.Br.                |   |                          |                            |                     |                            |                            |
| <u>Banksia ilicifolia</u> R.Br.                | A.R.Mast & D.S.Feller 267 (WIS)           | AF482105                 | AF482150                   | AF482195            | AF482015                   | AF482296                   |
| <u>B. oligantha</u> A.S.George                 | A.R.Mast & D.S.Feller 370 (WIS)           |                          |                            | AF482196            | AF482016                   | AF482297                   |
| <u>B. cuneata</u> A.S.George                   | A.R.Mast 085 (WIS)                        | AF482106                 | AF482151                   | AF482197            | AF482017                   | AF482298                   |
| <u>B. elegans</u> Meisn. <u>incertae sedis</u> | A.R.Mast 046 (WIS)                        | AF482107                 | AF482152                   | AF482198            | AF482018                   | AF482299                   |
| Subgenus <u>Banksia</u>                        |   |                          |                            |                     |                            |                            |
| Series <u>Tetragonae</u> A.S.George            |   |                          |                            |                     |                            |                            |
| <u>B. elderiana</u> F.Muell. & Tate            | A.R.Mast & D.S.Feller 277 (WIS)           | AF482108                 | AF482153                   | AF482199            | AF482019                   | AF482300                   |
| <u>B. lemnniana</u> Meisn.                     | A.R.Mast 075 (WIS)                        |                          |                            | AF482200            | AF482020                   | AF482301                   |
| <u>B. caleyi</u> R.Br.                         | A.R.Mast & D.S.Feller 307 (WIS)           |                          |                            | AF482201            | AF482021                   | AF482302                   |
| <u>B. aculeata</u> A.S.George                  | A.R.Mast 060 (WIS)                        |                          |                            | AF482202            | AF482022                   | AF482303                   |
| Series <u>Lindleyanae</u> K.Thiele             |   |                          |                            |                     |                            |                            |
| <u>B. lindleyana</u> Meisn.                    | A.R.Mast & D.S.Feller 347 (WIS)           | AF482109                 | AF482154                   | AF482203            | AF482023                   | AF482304                   |
| Series <u>Banksia</u>                          |   |                          |                            |                     |                            |                            |
| Subseries <u>Banksia</u>                       |   |                          |                            |                     |                            |                            |
| <u>B. ornata</u> F.Muell. ex Meisn.            | Cult., UC-Santa Cruz Arboretum            |                          |                            | AF482204            | AF48024                    | AF482305                   |
| <u>B. serrata</u> L.f.                         | A.R.Mast, D.S.Feller & P.D.Hind 225 (WIS) |                          |                            | AF482205            | AF482025                   | AF482306                   |
| <u>B. aemula</u> R.Br.                         | A.R.Mast & R.G.Coveny 011 (WIS)           | AF482110                 | AF482155                   | AF482206            | AF482026                   | AF482307                   |

Subseries Cratistylis K.Thiele

|  |                                 |          |          |          |          |          |
|--|---------------------------------|----------|----------|----------|----------|----------|
| <u>B. candolleana</u> Meisn.                           | A.R.Mast 032 (WIS)              | AF482111 | AF482156 | AF482207 | AF482027 | AF482308 |
| <u>B. sceptrum</u> Meisn.                              | A.R.Mast & D.S.Feller 342 (WIS) | AF482112 | AF482157 | AF482208 | AF482028 | AF482309 |
| <u>B. baxteri</u> R.Br.                                | A.R.Mast 063 (WIS)              | AF482113 | AF482158 | AF482209 | AF482029 | AF482310 |
| <u>B. speciosa</u> R.Br.                               | A.R.Mast 078 (WIS)              | AF482114 | AF482159 | AF482210 | AF482030 | AF482311 |
| <u>B. menziesii</u> R.Br.                              | A.R.Mast 025 (WIS)              | AF482115 | AF482160 | AF482211 | AF482031 | AF482312 |
| <u>B. burdettii</u> Baker f.                           | A.R.Mast & D.S.Feller 365 (WIS) |          |          | AF482212 | AF482032 | AF482313 |
| <u>B. victoriae</u> Meisn.                             | A.R.Mast & D.S.Feller 344 (WIS) |          |          | AF482213 | AF482033 | AF482314 |
| <u>B. hookeriana</u> Meisn.                            | A.R.Mast 044 (WIS)              |          |          | AF482214 | AF482034 | AF482315 |
| <u>B. prionotes</u> Lindl.                             | A.R.Mast & D.S.Feller 330 (WIS) |          |          | AF482215 | AF482035 | AF482316 |
| <u>B. baueri</u> R.Br. <u>incertae sedis</u>           | A.R.Mast 077 (WIS)              | AF482116 | AF482161 | AF482216 | AF482036 | AF482317 |
| <u>B. lullfitzii</u> C.A.Gardner <u>incertae sedis</u> | A.R.Mast & D.S.Feller 275 (WIS) | AF482117 | AF482162 | AF482217 | AF482037 | AF482318 |
| <u>B. attenuata</u> R.Br. <u>incertae sedis</u>        | A.R.Mast & D.S.Feller 367 (WIS) | AF482118 | AF482163 | AF482218 | AF482038 | AF482319 |
| <u>B. ashbyi</u> Baker f. <u>incertae sedis</u>        | A.R.Mast & D.S.Feller 348 (WIS) | AF482119 | AF482164 | AF482219 | AF482039 | AF482320 |
| <u>B. coccinea</u> R.Br. <u>incertae sedis</u>         | A.R.Mast 069 (WIS)              | AF482120 | AF482165 | AF482220 | AF482040 | AF482321 |

Series Prostratae A.S.George

|  |                                 |          |          |          |          |          |
|--|---------------------------------|----------|----------|----------|----------|----------|
| <u>B. petiolaris</u> F.Muell.                | A.R.Mast & D.S.Feller 293 (WIS) | AF482121 | AF482166 | AF482221 | AF482041 | AF482322 |
| <u>B. repens</u> Labill.                     | A.R.Mast 061 (WIS)              |          |          | AF482222 | AF482042 | AF482323 |
| <u>B. chamaephyton</u> A.S.George            | A.R.Mast & D.S.Feller 358 (WIS) |          |          | AF482223 | AF482043 | AF482324 |
| <u>B. blechnifolia</u> F.Muell.              | A.R.Mast 083 (WIS)              |          |          | AF482224 | AF482044 | AF482325 |
| <u>B. hiemalis</u> (A.S.George) K.Thiele     | A.R.Mast & D.S.Feller 306 (WIS) |          |          | AF482225 | AF482045 | AF482326 |
| <u>B. gardneri</u> A.S.George                |                                 |          |          |          |          |          |
| <u>B. brevidentata</u> (A.S.George) K.Thiele | A.R.Mast & D.S.Feller 312 (WIS) |          |          | AF482226 | AF482046 | AF482327 |
| <u>B. goodii</u> R.Br.                       | A.R.Mast 072 (WIS)              |          |          | AF482227 | AF482047 | AF482328 |

Series Cyrtostylis (Benth.) A.S.George

|                                  |                                 |          |          |          |          |          |
|----------------------------------|---------------------------------|----------|----------|----------|----------|----------|
| <u>B. pilostylis</u> C.A.Gardner | A.R.Mast 081 (WIS)              |          |          | AF482228 | AF482048 | AF482329 |
| <u>B. media</u> R.Br.            | A.R.Mast 006 (WIS)              | AF482122 | AF482167 | AF482229 | AF482049 | AF482330 |
| <u>B. epica</u> A.S.George       | A.R.Mast & D.S.Feller 249 (WIS) |          |          | AF482230 | AF482050 | AF482331 |
| <u>B. praemorsa</u> Andrews      | A.R.Mast 066 (WIS)              |          |          | AF482231 | AF482051 | AF482332 |

Series Ochraceae K.Thiele

|   |                                 |          |          |          |          |          |
|---|---------------------------------|----------|----------|----------|----------|----------|
| <u>B. benthamiana</u> C.A.Gardner                       | A.R.Mast & D.S.Feller 364 (WIS) | AF482123 | AF482168 | AF482232 | AF482052 | AF482333 |
| <u>B. audax</u> C.A.Gardner                             | A.R.Mast & D.S.Feller 272 (WIS) |          |          | AF482233 | AF482053 | AF482334 |
| <u>B. laevigata</u> Meisn. subsp. <u>laevigata</u>      | A.R.Mast 082 (WIS)              |          |          | AF482234 | AF482054 | AF482335 |
| <u>B. laevigata</u> subsp. <u>fuscolutea</u> A.S.George |                                 |          |          |          |          |          |

Series Grandes A.S.George

|                          |                    |          |          |          |          |  |
|--------------------------|--------------------|----------|----------|----------|----------|--|
| <u>B. grandis</u> Willd. | A.R.Mast 056 (WIS) | AF482124 | AF482169 | AF482235 | AF482055 |  |
| <u>B. solandri</u> R.Br. | A.R.Mast 059 (WIS) |          |          | AF482236 | AF482056 |  |

Series Salicinae Meisn.

Subseries Acclives K.Thiele

|                                  |                                 |          |          |          |          |  |
|----------------------------------|---------------------------------|----------|----------|----------|----------|--|
| <u>B. oblongifolia</u> Cav.      | A.R.Mast & R.G.Coveny 012 (WIS) | AF482125 | AF482170 | AF482237 | AF482057 |  |
| <u>B. plagiocarpa</u> A.S.George | Acc. HO327951 (TAS)             |          |          | AF482238 | AF482058 |  |
| <u>B. robur</u> Cav.             | A.R.Mast & D.S.Feller 215 (WIS) |          |          | AF482239 | AF482059 |  |
| <u>B. dentata</u> L.f.           | A.R.Mast & D.S.Feller 252 (WIS) |          |          | AF482240 | AF482060 |  |

Subseries Integrifoliae K.Thiele

|  |                                       |  |  |          |          |  |
|--|---------------------------------------|--|--|----------|----------|--|
| <u>B. marginata</u> Cav.   | Acc. HO327950 (TAS)                   |  |  | AF482241 | AF482061 |  |
| <u>B. conferta</u> A.S.George  |                                       |  |  |          |          |  |
| <u>B. penicillata</u> (A.S.George) K.Thiele                          | Cult.,UC-Santa Cruz Arboretum, 93.767 |  |  | AF482242 | AF482062 |  |
| <u>B. paludosa</u> R.Br.   |                                       |  |  |          |          |  |
| <u>B. canei</u> J.H.Willis   | A.R.Mast 023 (WIS)                    |  |  | AF482243 | AF482063 |  |
| <u>B. saxicola</u> A.S.George  | Cult., UC-Santa Cruz Arboretum        |  |  | AF482244 | AF482064 |  |
| <u>B. integrifolia</u> L.f. subsp. <u>integrifolia</u>               | A.R.Mast & R.G.Coveny 015 (WIS)       |  |  | AF482245 | AF482065 |  |
| <u>B. integrifolia</u> subsp. <u>monticola</u> K.Thiele              | A.R.Mast & D.S.Feller 216 (WIS)       |  |  | AF482247 | AF482067 |  |
| <u>B. integrifolia</u> subsp. <u>compar</u> (R.Br.) K.Thiele         | I.R.Telford 11496 (NSW)               |  |  | AF482246 | AF482066 |  |
| <u>B. integrifolia</u> subsp. <u>aquilonia</u> (A.S.George) K.Thiele | A.R.Mast 009 (WIS)                    |  |  | AF482248 | AF482068 |  |

Series Spicigerae A.S.George

Subseries Spinulosae K.Thiele

|  |   |  |  |          |          |
|--|---|--|--|----------|----------|
| <u>B. spinulosa</u> Sm. var. <u>spinulosa</u>                                | A.R.Mast & P.D.Hind 016 (WIS)             |  |  | AF482249 | AF482069 |
| <u>B. spinulosa</u> var. <u>collina</u> (R.Br.) A.S.George                   | A.R.Mast & D.S.Feller 218A (WIS)          |  |  | AF482250 | AF482070 |
| <u>B. spinulosa</u> var. <u>cunninghamii</u> (Sieber ex Rchb.)<br>A.S.George | A.R.Mast, D.S.Feller & P.D.Hind 224 (WIS) |  |  | AF482251 | AF482071 |
| <u>B. spinulosa</u> var. <u>neoanglica</u> A.S.George                        | Cult, UC-Santa Cruz Arboretum, 93.38      |  |  | AF482252 | AF482072 |

Subseries Ericifoliae K.Thiele

|   |                             |          |          |          |          |
|---|-----------------------------|----------|----------|----------|----------|
| <u>B. ericifolia</u> L.f. var. <u>ericifolia</u>      | A.N. Rodd 5581 (NSW 197246) | AF482126 | AF482171 | AF482253 | AF482073 |
| <u>B. ericifolia</u> var. <u>macrantha</u> A.S.George |                             |          |          |          |          |

Subseries Occidentales K.Thiele

|                                     |                                 |          |          |          |          |
|-------------------------------------|---------------------------------|----------|----------|----------|----------|
| <u>B. occidentalis</u> R.Br.        | A.R.Mast 070 (WIS)              |          |          | AF482254 | AF482074 |
| <u>B. brownii</u> Baxter ex R.Br.   | A.R.Mast 058 (WIS)              | AF482127 | AF482172 | AF482255 | AF482075 |
| <u>B. seminuda</u> (A.S.George) Rye | A.R.Mast & D.S.Feller 369 (WIS) |          |          | AF482256 | AF482076 |
| <u>B. verticillata</u> R.Br.        | A.R.Mast 064 (WIS)              |          |          | AF482257 | AF482077 |
| <u>B. littoralis</u> R.Br.          | A.R.Mast 071 (WIS)              |          |          | AF482258 | AF482078 |

Series Quercinae Meisn

|                                |                                 |          |          |          |          |
|--------------------------------|---------------------------------|----------|----------|----------|----------|
| <u>B. quercifolia</u> R.Br.    | A.R.Mast & D.S.Feller 261 (WIS) | AF482128 | AF482173 | AF482259 | AF482079 |
| <u>B. oreophila</u> A.S.George | A.R.Mast 053 (WIS)              |          |          | AF482260 | AF482080 |

Series Dryandroideae Meisn.

|  |                                 |          |          |          |          |
|--|---------------------------------|----------|----------|----------|----------|
| <u>B. dryandroides</u> Baxter ex Sweet | A.R.Mast & D.S.Feller 254 (WIS) | AF482129 | AF482174 | AF482261 | AF482081 |
|--|---------------------------------|----------|----------|----------|----------|

Series Abietinae Meisn.

Subseries Nutantes K.Thiele

|   |                                 |          |          |          |          |
|---|---------------------------------|----------|----------|----------|----------|
| <u>B. nutans</u> R.Br. var. <u>nutans</u>         | A.R.Mast & D.S.Feller 283 (WIS) |          |          | AF482262 | AF482082 |
| <u>B. nutans</u> var. <u>cernuella</u> A.S.George | A.R.Mast 073 (WIS)              | AF482130 | AF482175 | AF482263 | AF482083 |

Subseries Sphaerocarphae K.Thiele

|                             |                                 |  |  |          |          |
|-----------------------------|---------------------------------|--|--|----------|----------|
| <u>B. grossa</u> A.S.George | A.R.Mast & D.S.Feller 340 (WIS) |  |  | AF482264 | AF482084 |
|-----------------------------|---------------------------------|--|--|----------|----------|

|  |                                 |          |          |          |          |          |  |
|--|---------------------------------|----------|----------|----------|----------|----------|--|
| <u>B. dolichostyla</u> (A.S.George) K.Thiele               | F.H.Mollemans 2749 (PERTH)      |          |          | AF482265 | AF482085 |          |  |
| <u>B. micrantha</u> A.S.George                             | A.R.Mast & D.S.Feller 360 (WIS) |          |          | AF482266 | AF482086 |          |  |
| <u>B. sphaerocarpa</u> R.Br. var. <u>sphaerocarpa</u>      | T.R.Lally 983 (PERTH)           |          |          | AF482267 | AF482087 |          |  |
| <u>B. sphaerocarpa</u> var. <u>caesia</u> A.S.George       | R.Davis 3103 (PERTH)            |          |          | AF482268 | AF482088 |          |  |
| Subseries <u>Leptophyllae</u> K.Thiele                     |                                 |          |          |          |          |          |  |
| <u>B. telmatiaea</u> A.S.George                            | A.R.Mast & D.S.Feller 335 (WIS) |          |          | AF482269 | AF482089 |          |  |
| <u>B. scabrella</u> A.S.George                             | A.R.Mast & D.S.Feller 352 (WIS) |          |          | AF482270 | AF482090 |          |  |
| <u>B. leptophylla</u> var. <u>melletica</u> A.S.George     | A.R.Mast & D.S.Feller 354 (WIS) |          |          | AF482271 | AF482091 |          |  |
| <u>B. leptophylla</u> A.S.George var. <u>leptophylla</u>   | A.R.Mast & D.S.Feller 366 (WIS) |          |          | AF482272 | AF482092 |          |  |
| <u>B. lanata</u> A.S.George                                | A.R.Mast & D.S.Feller 341 (WIS) |          |          | AF482273 | AF482093 |          |  |
| Subseries <u>Longistyles</u> K.Thiele                      |                                 |          |          |          |          |          |  |
| <u>B. violacea</u> C.A.Gardner                             | A.R.Mast 079 (WIS)              |          |          | AF482274 | AF482094 |          |  |
| <u>B. laricina</u> C.A.Gardner                             | A.R.Mast & D.S.Feller 228 (WIS) |          |          | AF482275 | AF482095 |          |  |
| <u>B. incana</u> A.S.George                                | A.R.Mast 039 (WIS)              |          |          | AF482276 | AF482096 |          |  |
| <u>B. tricuspis</u> Meisn.                                 | A.R.Mast 049 (WIS)              | AF482131 | AF482176 | AF482277 | AF482097 |          |  |
| <u>B. pulchella</u> R.Br.                                  | A.R.Mast 080 (WIS)              | AF482132 | AF482177 | AF482278 | AF482098 |          |  |
| <u>B. meisneri</u> Lehm. var. <u>meisneri</u>              |                                 |          |          |          |          |          |  |
| <u>B. meisneri</u> var. <u>ascendens</u> A.S.George        | Ms. Bradshaw s.n. (PERTH)       |          |          | AF482279 | AF482099 |          |  |
| Genus <u>Dryandra</u> R.Br.                                |                                 |          |          |          |          |          |  |
| <u>Dryandra calophylla</u> R.Br.                           | A.R.Mast 062 (WIS)              | AF482135 | AF482180 | AF482281 | AF482102 | AF482338 |  |
| <u>D. foliosissima</u> C.A.Gardner                         | A.R.Mast & D.S.Feller 295 (WIS) | AF482133 | AF482178 | AF482279 | AF482100 | AF482335 |  |
| <u>D. serratuloides</u> subsp. <u>perissa</u> A.S.George   | A.R.Mast & D.S.Feller 246 (WIS) | AF482134 | AF482179 | AF482280 | AF482101 | AF482337 |  |
| <u>D. sessilis</u> var. <u>cygnorum</u> (Gand.) A.S.George | A.R.Mast & D.S.Feller 229 (WIS) | AF482136 | AF482181 | AF482282 | AF482103 | AF482339 |  |
| <u>D. speciosa</u> Meisn.                                  | A.R.Mast & D.S.Feller 244 (WIS) | AF482137 | AF482182 | AF482283 | AF482104 | AF482340 |  |
| Outgroups  |                                 |          |          |          |          |          |  |
| <u>Buckinghamia celsissima</u> F.Muell.                    | Cult., RBG-Sydney, 419835       | AF482145 | AF482190 | AF482291 |          |          |  |

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| <u>Floydia praelta</u> (F.Muell.) L.A.S.Johnson & B.G.Briggs | Cult., RBG-Sydney, 427627                          | AF482147 | AF482192 | AF482293 |
| <u>Hakea victoria</u> J.Drumm.                               | A.R.Mast 076 (WIS)                                 | AF482139 | AF482184 | AF482285 |
| <u>Lambertia ericifolia</u> R.Br.                            | Cult., UC-Santa Cruz Arboretum, 79.141             | AF482148 | AF482193 | AF482294 |
| <u>Lomatia silaifolia</u> (Sm.) R.Br.                        | Cult., UC-Santa Cruz Arboretum, 82.59              | AF482143 | AF482188 | AF482289 |
| <u>Macadamia integrifolia</u> Maiden & Betche                | Cult., Fairchild Tropical Bot. Gardens, plot 335-A | AF482140 | AF482185 | AF482286 |
| <u>Musgravea heterophylla</u> L.S.Sm.                        | A.R.Mast 005 (WIS)                                 | AF482138 | AF482183 | AF482284 |
| <u>Neorites kevediana</u> L.S.Sm.                            | A.Douglas 381 (MEL)                                | AF482141 | AF482186 | AF482287 |
| <u>Opisthiolepis heterophylla</u> L.S.Sm.                    | Cult., RBG-Sydney, 427629                          | AF482146 | AF482191 | AF482292 |
| <u>Orites lancifolia</u> F.Muell.                            | A.Douglas 335 (MEL)                                | AF482142 | AF482187 | AF482288 |
| <u>Roupala montana</u> Aubl.                                 | Cult., RBG-Sydney, 399358                          | AF482144 | AF482189 | AF482290 |
| <u>Stenocarpus salignus</u> R.Br.                            | Cult., UC-Santa Cruz Arboretum, 93.762             | AF482149 | AF482194 | AF482295 |