JOHAN B. MOLS, BARBARA GRAVENDEEL, LARS W. CHATROU, MICHAEL D. PIRIE, PAUL C. BYGRAVE, MARK W. CHASE AND PAUL J.A. KESSLER. 2004. Identifying clades in Asian Annonaceae: monophyletic genera in the polyphyletic Miliuseae. *American Journal of Botany* 91(4): 590-600.

Appendix. List of species analyzed. Herbarium acronyms follow Holmgren et al. (1990).

| Species | Voucher collections | Origin voucher | Distribution species ¹ | GenBank accession numbers | |
|---|-------------------------------------|---|--|---------------------------|-----------|
| | | | | rbcL | trnL-trnF |
| Alphonsea boniana Finet & Gagnep. | Kessler PK 3116 (L) | Vietnam, Dan Huy District, Can Hai Centre | Burma to Peninsular Malaysia | AY318965 | AY319077 |
| Alphonsea elliptica Hook. f. & Thomson | Van Balgooy 5141 (L) | Indonesia, Bangka. Kebun Raya Bogor X-F-52 | Peninsular Malaysia, Sumatra | AY318966 | AY319078 |
| Alphonsea javanica Scheff. | Chase 2072 (K) | Indonesia. Kebun Raya Bogor XVII-I-106 | Peninsular Malaysia, Borneo | AY318967 | AY319079 |
| Alphonsea kinabaluensis J. Sinclair | Ridsdale DV-S-3048 (L) | Malaysia, Sabah, Danum Valley | Borneo | AY318968 | AY319080 |
| Alphonsea spec. | Mols 16 (L) | Indonesia, Kalimantan. Kebun Raya Bogor XX-D-6 | - | AY318969 | AY319081 |
| Alphonsea spec. | Kessler PK 3186 (TISTR, Bangkok) | Thailand, Chalermglin's private garden. | - | AY318970 | AY319082 |
| Anaxagorea javanica Blume var. javanica | Kessler PK 3112 (L) | Singapore, Botanical Gardens Singapore | Thailand to Indonesia | AY319075 | AY319189 |
| Anaxagorea luzonensis A. Gray | Kessler PK 3231 (L) | Thailand, Khao Hin Sorn | India, China, Philippines to Moluccas | AY319074 | AY319188 |
| Annickia kummeriae (Engl. & Diels) Setten & Maas | Johnson 1942 (K, OWU) | Tanzania, Tanga region, Amani | Tropical East Africa | AY319057 | AY319171 |
| Craibella phuyensis Saunders, Su & Chalermglin | Kessler PK 3221 (L) | Thailand, Sunyataram Monastery | Thailand | AY319001 | AY319114 |
| Cremastosperma microcarpum R. E. Fr. | Chatrou et al. 208 (U) | Peru, Loreto, Yanamono | Peru, Brazil | AY319058 | AY319172 |
| Desmopsis microcarpa R. E. Fr. | Chatrou et al. 85 (U) | Costa Rica, Limón | Costa Rica, Panama | AY319059 | AY319173 |
| Desmopsis schippii Standl. | Chatrou et al. 94 (U) | Costra Rica, Limón | Belize to Panama | AY319060 | AY319174 |
| Enicosanthum fuscum (King) Airy-Shaw | Kessler PK 3222 (L) | Thailand, Sunyataram Monastery | Thailand, Peninsular Malaysia | AY318973 | AY319085 |
| Enicosanthum Membranifolium J. Sinclair | Kessler PK 3198 (L) | Thailand, Chalermglin's private Garden | Thailand, Peninsular Malaysia | AY318974 | AY319086 |
| Enicosanthum paradoxum Becc. | Kessler & Arifin PK 2746 (L) | Indonesia, Borneo, Tanjung | Borneo | AY318975 | AY319087 |
| Enicosanthum spec. | Ambriansyah et al. AA 2067 (L) | Indonesia, Borneo, Samboja | - | AY318976 | AY319088 |
| Ephedranthus spec. | Chatrou et al. 173 (U) | Peru, Loreto, Sucusari | - | AY319061 | AY319175 |
| Fitzalania heteropetala (F. Muell.) F. Muell. | Forster PIF 8326 (K) | Australia, North Kennedy | Australia | AY318977 | AY319089 |
| Greenwayodendron suaveolens (Engl. & Diels) Verd. | Semsei 2376 (K, WAG) | Kenya, Tanga region | Tropical Africa | AY318978 | AY319090 |
| Haplostichanthus longirostris (Scheff.) Heusden | Takeuchi & Ama 15656 (L) | Papua New Guinea, Bubia | New Guinea to Solomon Islands | AY318979 | AY319091 |
| Klarobelia megalocarpa Chatrou | Maas et al. 8521 (U) | Ecuador | Ecuador | AY319062 | AY319176 |

| Species | Voucher collections | Origin voucher | Distribution species ¹ | GenBank accession numbers | |
|---|---|--|---|---------------------------|-----------|
| | | | | rbcL | trnL-trnF |
| Malmea dielsiana R. F. Fr. | Chatrou et al. 122 (U) | Peru, Madre de Dios | Peru, Brazil | AY319063 | AY319177 |
| Marsypopetalum pallidum (Blume) Backer | Kessler PK 3192 (L) | Thailand, Chalermglin's private Garden | Peninsular Malaysia, Indonesia | AY318980 | AY319092 |
| Meiogyne cylindrocarpa (Burck) Heusden | Ridsdale DV-M1-1930 (L) | Malaysia, Sabah, Danum Valley | Indonesia to New Guinea and Marianas Islands | AY318981 | AY319093 |
| Meiogyne spec. | Kessler PK 3219 (L) | Thailand, Sunyataram monastery | - | AY319002 | AY319115 |
| Meiogyne stenopetala (F. Muell.) Heusden subsp. stenopetala | Jessup 706 (K) | Australia, Queensland, Mossman | Australia | AY318971 | AY319083 |
| Meiogyne virgata (Blume) Miq. | Kessler PK 2751 (L) | Indonesia, Borneo, Tanjung | Thailand, Indochina, Indonesia, Philippines | AY318982 | AY319094 |
| Melodorum fruticosum Lour. | Chalermglin 440214-2 (L) | Thailand, Phu Khae | Thailand, Indochina, Peninsular Malaysia | AY319071 | AY319185 |
| Melodorum cf. fruticosum Lour. I | Mols 2 (L) | Indonesia, Ambon. Kebun Raya Bogor X-F-43 | - | AY319072 | AY319186 |
| Melodorum cf. fruticosum Lour. II | Mols 10 (L) | Indonesia, Java. Kebun Raya Bogor XVI-E-85 | Java | AY319073 | AY319187 |
| Mezzettia parviflora Becc. | Okada 3388 (L) | Indonesia, Kalimantan. Kebun Raya Bogor XX-D-36 | Thailand to Moluccas | AY318983 | AY319095 |
| Miliusa campanulata Pierre | Chalermglin 440407-11 (TISTR, Bangkok) | Thailand, Phukadrung | Thailand, Indochina | AY318984 | AY319096 |
| Miliusa cuneata Craib | Chalermglin 440214-7 (L) | Thailand, Khlonga | Thailand, China | AY318985 | AY319097 |
| Miliusa horsfieldii (Benn.) Pierre | Mols 1 (L) | Indonesia, Java. Kebun Raya Bogor X-G-91 | Thailand, China to Australia | AY318986 | AY319098 |
| Miliusa lineata (Craib) Ast | Kessler PK 3202 (L) | Thailand, Khao Yai National Park | Thailand, China to Australia | AY318987 | AY319099 |
| Miliusa longipes King | Pholsena 2651 (L) | Thailand, Khao Khitchakut | Thailand to Java | AY318988 | AY319100 |
| Miliusa mollis Pierre var. mollis I | Pholsena 1756 (L) | Thailand, Khao Soi Dao | Thailand, Indochina, Peninsular Malaysia | AY318989 | AY319101 |
| Miliusa mollis Pierre var. mollis II | Kessler PK 3207 (L) | Thailand, Khao Soi Dao | Thailand, Indochina, Peninsular Malaysia | AY318990 | AY319102 |
| Miliusa spec. | Middleton & Lamxay 269 (L) | Thailand, Nong Hin | - | AY318991 | AY319103 |
| Miliusa thorelii Finet & Gagnep. | Kessler PK 3184 (L) | Thailand, Maewong National Park | Thailand, Indochina | AY318992 | AY319104 |
| Miliusa velutina (Dunal) Hook.f. & Thomson | Pholsena 2842 (L) | Thailand, Ban Nong Khok | India to Thailand | AY318993 | AY319105 |
| Mitrephora alba Ridley | Chalermglin 440304-1 (TISTR, Bangkok) | Thailand, Lang Suan | Thailand, Peninsular Malaysia | AY318994 | AY319106 |
| Mitrephora celebica Scheff. | Mols 8 (L) | Indonesia: Sulawesi, Menado. Kebun Raya Bogor IV-H-51 | Sulawesi | - | AY319107 |
| Mitrephora keithii Ridley | Kessler PK 3190 (L) | Thailand, Chalermglin's private garden | Myanmar to Peninsular Malaysia | AY318995 | AY319108 |
| Mitrephora polypyrena (Blume) Miq. | Mols 7 (L) | Indonesia, Java. Kebun Raya Bogor IV-G-3 | Java | AY318997 | AY319110 |
| Mitrephora teysmannii Scheff. | Kessler PK 3226 (L) | Thailand, Thung Yai Narasuan | Myanmar to Indonesia | AY318996 | AY319109 |

| Species | Voucher collections | Origin voucher | Distribution species ¹ | GenBank accession numbers | |
|--|-------------------------------------|--|--|---------------------------|-----------|
| | | | | rbcL | trnL-trnF |
| Monocarpia euneura Miq. | Slik 2002-2931 (L) | Indonesia, Borneo, ITCI concession | Borneo | AY318998 | AY319111 |
| Mosannona vasquezii Chatrou | Chatrou et al. 226 (U) | Peru, Loreto, Yanamono | Peru | AY319064 | AY319178 |
| Neo-uvaria acuminatissima (Miq.) Airy-Shaw | Ridsdale DV-SR-4671 (L) | Malaysia, Sabah, Danum Valley | Peninsular Malaysia, Philippines, Indonesia | AY318999 | AY319112 |
| Neo-uvaria parallelivenia (Boerl.) H. Okada & K. Ueda | Kessler sub IV-H-73 | Indonesia, Kalimantan. Kebun Raya Bogor IV-H-73 | Borneo, Java | AY319000 | AY319113 |
| Onychopetalum periquino (Rusby) D. M. Johnson & N. A. Murray | Chatrou et al. 425 (U) | Bolivia, Beni | Bolivia | AY319065 | AY319179 |
| Orophea brandisii Hook. f. & Thomson | Kessler PK 3180 (L) | Thailand, Klong Lan National Park | Myanmar, Thailand | AY319003 | AY319116 |
| Orophea celebica (Blume) Miq. | Kessler PK 2953 (L) | Indonesia, Sulawesi, Gunung Potong | Sulawesi | AY319004 | AY319117 |
| Orophea creaghii (Ridley) Leonardia & Kessler | Mols 19 (L) | Indonesia, Sumatra. Kebun Raya Bogor XX-D-116 | Peninsular Malaysia to Sulawesi | AY319005 | AY319118 |
| Orophea enterocarpa Hook. f. & Thomson | Chalermglin 440403 (TISTR, Bangkok) | Thailand, Bang Lang | Myanmar, Thailand, Peninsular Malaysia | AY319006 | AY319119 |
| Orophea enneandra Blume | Kessler sub XX-D-179 (L) | Indonesia, Java. Kebun Raya Bogor XX-D-179 | Java | AY319007 | AY319120 |
| Orophea kerrii Kessler | Chalermglin 440416-1 (L) | Thailand, Khao Luang | Myanmar, Thailand | AY319008 | AY319121 |
| Orophea cf. malayana Kessler | Hoffmann 11 (K) | Malaysia, Peninsular Malaysia Negiri Sembilan | Peninsular Malaysia | AY319045 | AY319159 |
| Orophea myriantha Merr. | Kessler et al. B 825 (L) | Indonesia, Borneo, Berau | Borneo | AY319009 | AY319122 |
| Orophea polycarpa A. DC. | Kessler PK 3234 (L) | Thailand, Khao Hin Sorn Botanical Garden | Sri Lanka, China to Peninsular Malaysia | AY319010 | AY319123 |
| Oxandra espintana (Spruce ex Benth.) Baill. | Chatrou et al. 133 (U) | Peru, Madre de Dios | Colombia, Peru | AY319066 | AY319180 |
| Petalolophus megalopus K. Schum. | Takeuchi & Ama 15599 (L) | Papua New Guinea, Bubia | New Guinea | AY319011 | AY319124 |
| Phaeanthus ebracteolatus (Presl) Merr. | Utteridge 17 (K) | Papua New Guinea, Madang Province, Baiteta | Philippines, Borneo to New Guinea | AY319012 | AY319125 |
| Phaeanthus splendens Miq. | Kessler B 1564 (L) | Indonesia, Borneo, Berau | Peninsular Malaysia, Sumatra, Borneo | - | AY319126 |
| Piptostigma pilosum Oliv. | Cheek 7869 (K) | Cameroon | Tropical West Africa | AY319067 | AY319181 |
| Platymitra macrocarpa Boerl. | Okada 3457 (L) | Indonesia, Java. Kebun Raya Bogor IV-G-53 | Thailand, Sumatra, Java | AY319013 | AY319127 |
| Polyalthia borneensis Merr. | Ridsdale DV-SR-7921 (L) | Malaysia, Sabah, Danum Valley | Borneo | AY319014 | AY319128 |
| Polyalthia cauliflora Hook. f. & Thomson | Kessler PK 3114 (L) | Singapore, Singapore Botanical Garden | Thailand to Indonesia | AY319015 | AY319129 |
| Polyalthia celebica Miq. | Mols 9 (L) | Indonesia. Kebun Raya Bogor IV-C-97 | Sulawesi | AY319016 | AY319130 |

| Species | Voucher collections | Origin voucher | Distribution species ¹ | GenBank accession numbers | |
|---|--|--|--|---------------------------|-----------|
| | | | | rbcL | trnL-trnF |
| Polyalthia cerasoides (Roxb.) Beddome | Chalermglin 440214-4 (L) | Thailand, Phu Khae | India, Sri Lanka to Thailand, Indochina | AY319017 | AY319131 |
| Polyalthia cinnamomea (Hook. f. & Thomson) Hook. f. & Thomson | Ridsdale DV-M1-347 (L) | Malaysia, Sabah, Danum Valley | Thailand, Peninsular Malaysia, Borneo | AY319018 | AY319132 |
| Polyalthia congesta (Ridley) J. Sinclair | Ridsdale DV-S-5105 (L) | Malaysia, Sabah, Danum Valley | Borneo | AY319019 | AY319133 |
| Polyalthia debilis (Pierre) Finet & Gagnep. | Kessler PK 3228 (L) | Thailand | Thailand, Vietnam | AY319020 | AY319134 |
| Polyalthia discolor Diels | Takeuchi & Ama 16394 (L) | Papua New Guinea, Bubia | New Guinea | AY319021 | AY319135 |
| Polyalthia flagellaris (Becc.) Airy-Shaw | Duling 38 (K) | Brunei, Temburong | Borneo | AY319022 | AY319136 |
| Polyalthia cf. glabra J.Sinclair | Rastini 224 (L) | Indonesia, Bangka. Kebun Raya Bogor, IV-H-106 | Peninsular Malaysia, Bangka | AY319032 | AY319146 |
| Polyalthia glauca (Hassk.) Boerl. | Mols 20 (L) | Indonesia, Java. Kebun Raya Bogor XX-D-81 | Thailand to New Guinea | AY319023 | AY319137 |
| Polyalthia lateriflora Kurz | Hort. Bot. Bog. XII-B-VII-37 (L) | Indonesia. Kebun Raya Bogor XII-B-VII-37 | Thailand to Indonesia | AY319024 | AY319138 |
| Polyalthia littoralis (Blume) Boerl. | Rastini 153 (L) | Indonesia, Java. Kebun Raya Bogor IV-H-53 | Java | AY319026 | AY319140 |
| Polyalthia longifolia (Sonnerat) Thwaites | Johnson 1965 (OWU) | Tanzania, Dar-Es-Salaam, cultivated | India, Sri Lanka | AY319027 | AY319141 |
| Polyalthia cf. longifolia (Sonnerat) Thwaites | Mols 14 (L) | Indonesia, Sulawesi, Menado. Kebun Raya Bogor XX-D-121 | India, Sri Lanka | AY319025 | AY319139 |
| Polyalthia longipes (Miq.) Koord. & Valeton | Ridsdale DV-M2-11443 (L) | Malaysia, Sabah, Danum Valley | Indonesia | AY319028 | AY319142 |
| Polyalthia obliqua Hook. f. & Thomson | Ambriansyah & Arifin AA 1694 (L) | Indonesia, Borneo, Kuari | Myanmar, Peninsular Malaysia, Borneo | AY319029 | AY319143 |
| Polyalthia pendula G. E. Schatz & Le Thomas | Rabevohitra 2386 (K, WAG) | Madagascar, Toliara | Madagascar | AY319030 | AY319144 |
| Polyalthia rumphii (Henschel) Merr. | Van Balgooy & Van Setten 5654 (L) | Indonesia, Sumatra, Lampung. Kebun Raya Bogor XX-D-110 | Thailand to Philippines and Indonesia | AY319031 | AY319145 |
| Polyalthia sclerophylla Hook.f. & Thomson | Hort. Bot. Bog. XX-D-82 (L) | Malaysia, Peninsular Malaysia. Kebun Raya Bogor XX-D-82 | Peninsular Malaysia, Sumatra | AY319033 | AY319147 |
| Polyalthia spec. | Ridsdale DV-M1-12314 (L) | Malaysia, Sabah, Danum Valley | - | AY318972 | AY319084 |
| Polyalthia stenopetala (Hook. f. & Thomson) Finet & Gagnep. | Chalermglin 440302 (TISTR, Bangkok) | Thailand, Chulabhoru | Thailand, Peninsular Malaysia | AY319034 | AY319148 |
| Polyalthia stuhlmannii (Engl.) Verd. | Luke & Robertson 1424 (K, WAG) | Kenya, Lamu district | Tropical East Africa | AY319035 | AY319149 |
| Polyalthia subcordata (Blume) Blume I | Gravendeel et al. 549 (L) | Indonesia, Java, Halimun National Park | Java, Sumatra, Borneo | AY319036 | AY319150 |
| Polyalthia subcordata (Blume) Blume II | Gravendeel et al. 678 (L) | Indonesia, Java, Kebun Raya Cibodas | Java, Sumatra, Borneo | AY319037 | AY319151 |

| Species | Voucher collections | Origin voucher | Distribution species ¹ | GenBank accession numbers | |
|---|--------------------------------------|---|--|---------------------------|-----------|
| | | | Ī | rbcL | trnL-trnF |
| Polyalthia suberosa (Roxb.) | Botanical Gardens | Sri Lanka. Botanical Garden | India to Peniunsular Malaysia | AY319038 | AY319152 |
| Thwaites | Kaiserslautern s.n. | Kaiserslautern s.n. | | | |
| Polyalthia sumatrana (Miq.) King | SAN 143918 (SAN) | Malaysia, Sabah | Peninsular Malaysia to Indonesia | AY319039 | AY319153 |
| Polyalthia viridis Craib | Chalermglin 440214-3 (L) | Thailand, Phu Khae | Thailand | AY319040 | AY319154 |
| Polyalthia xanthopetala Merr. | Ridsdale DV-S-5107 (L) | Malaysia, Sabah, Danum Valley | Borneo | AY319041 | AY319155 |
| Popowia hirta Miq. | Kessler B 1628 (L) | Indonesia, Borneo, Berau | Borneo, Sumatra | AY319042 | AY319156 |
| Popowia odoardoi Diels | Ridsdale DV-SR-7422 (L) | Malaysia, Sabah, Danum Valley | Borneo | AY319043 | AY319157 |
| Popowia pisocarpa (Blume) Endl. | Van Balgooy & Van Setten 5683 (L) | Indonesia, Java. Kebun Raya Bogor XI-B-V-137 | Indochina, Thailand to Philippines, Indonesia | AY319044 | AY319158 |
| Pseudomalmea diclina (R. F. Fr.) Chatrou | Chatrou et al. 211 (U) | Peru, Loreto, Yanamono, | Tropical South America | AY319068 | AY319182 |
| Pseudoxandra lucida R. F. Fr. | Chatrou et al. 212 (U) | Peru, Loreto, Yanamono | Peru, Velenzuela | AY319076 | AY319190 |
| Pseuduvaria brachyantha Su & Saunders ined. | Takeuchi & Ama 15677 (L) | Papua New Guinea, Bubia | New Guinea | AY319046 | AY319160 |
| Pseuduvaria coriacea Su & Saunders ined. | Takeuchi & Ama 16314 (L) | Papua New Guinea, Bubia | New Guinea | AY319047 | AY319161 |
| Pseuduvaria pamattonis (Miq.) Su & Saunders | Slik 2002-2911 (L) | Indonesia, Borneo | Borneo, Philippines | AY319049 | AY319163 |
| Pseuduvaria rugosa (Blume) Merr. | Kessler PK 3209 (L) | Thailand, Khao Soi Dao | Myanmar to Java | AY319048 | AY319162 |
| Sageraea lanceolata Miq. | Ridsdale DV-M2-1692 (L) | Malaysia Sabah, Danum Valley | Peninsular Malaysia, Indonesia, Philippines | AY319050 | AY319164 |
| Sapranthus microcarpus (Donn. Smith) R. E.Fr. | Maas et al. 8457 (U) | Honduras | Mexico to Honduras | AY319052 | AY319166 |
| Sapranthus viridiflorous G. E. Schatz | Chatrou et al. 55 (U) | Costa Rica, La Selva | Costa Rica, Nicaragua | AY319051 | AY319165 |
| Stelechocarpus burahol (Blume) Hook. f. & Thomson | Mols 13 (L) | Indonesia, Java. Kebun Raya Bogor XX-D-22 | Peninsular Malaysia to Indonesia | AY319053 | AY319167 |
| Stelechocarpus cauliflorus (Scheff.) R. E. Fr. | Hort. Bot. Bog. XV-A-196 (L) | Indonesia, Sumatra, Lampung. Kebun Raya Bogor XV-A-196 | Thailand, Indochina to Indonesia | AY319054 | AY319168 |
| Stenanona costaricensis R. E. Fr. | Chatrou et al. 67 (U) | Costa Rica, Braulio Carillo | Costa Rica, Nicaragua | AY319069 | AY319183 |
| Stenanona panamensis Standl. | Chatrou et al. 100 (U) | Costa Rica, Limón | Panama, Costa Rica | AY319070 | AY319184 |
| Tridimeris hahniana.(Baill.) G. E. Schatz | Schatz 1198 (K) | Mexico, Veracruz | Mexico | AY319055 | AY319169 |
| Trivalvaria macrophylla (Blume) Miq. var. macrophylla | Chase 1207 (K) | Indonesia, Java. Kebun Raya Bogor XI-B-XVI-31 | Thailand to Indonesia | AY319056 | AY319170 |

¹ Data obtained from literature and available material at the Nationaal Herbarium Nederland.