



## Supplement

The following supplementary materials are available for this article: Mou, F.J., Y. Peng, Y.-G. Li, X. Hu. 2021. Taxonomic revision of *Murraya* J. Koenig (Rutaceae) based on the molecular phylogeny and morphological characters. *Taiwania* 66(3): 387-397. Doi: [10.6165/tai.2021.66.387](https://doi.org/10.6165/tai.2021.66.387)

### Supplementary materials: *Murraya* specimens checked in this study.

#### *Murraya alata* Drake

**CHINA:** **Guangxi, Beihai**, April 1956, *Hepu Expedition 1673* (IBSC!, PE, image!), February 1976, *Z. Z. Lu 77945* (GXMI!), May 1987, *Y. P. Tao 22201, 78054* (GXMI!), December 1989, *M. F. Qin & Z. H. Qin 253* (IBK!), November 2016, *X. L. Hou 90087* (AU!); **Hepu**, November 1976, *Hepu Expedition 1-6774* (GXMI!). **Guangdong**, December 1932, *N. Q. Chen 44643* (NAS!), October 1933, *J. L. Zuo 23052* (IBK!, US, image!), **Xuwen**, June 1937, *X. R. Liang 65639* (IBSC!), November 1951, *Z. S. Zhu 1060* (IBSC!), August 1953, *S. G. Li Hai5* (IBSC!), **Zhuhai, Yue73 3022** (IBSC!). **Hainan**, October 1921, *F. A. McClure 7611* (P, US, image!), July 1934, *C. X. Li 1057* (SYS!), December 1934, *S. K. Lau 5042* (US, image!), 1935, *S. K. Lau 5734* (US, image!), August 1936, *X. Q. Liu 27705* (IBSC!, KUN!, NAS, image!), April 1955, *X. R. Liang 68628* (IBSC, PE, NAS, image!), May 1956, *H. D. Zhang 13216* (IBSC!); **Qiongzhan**, October 1984, *Q. Li 123* (SYS!); **Changjiang**, November 1933, *X. R. Liang 66097* (IBK!, IBSC!, PE, image!), NAS!, US, image!); **Dongfang**, August 1936, *X. Q. Liu 27705* (PE, image!), November 1956, *S. Q. Chen 11174* (IBSC!); **Ledong**, December 1934, *X. Q. Liu 5042* (IBSC!, SYS!, US, image!), July 1981, *236-6 Expedition 3805* (PE, image!); **Lingao**, August 1934, *C. X. Li 1478* (SYS!); **Sanya**, December 1932, *J. L. Zuo & N. Q. Chen 44512* (IBK!, IBSC!, KUN!, P, image!), *44634* (IBK!, IBSC!, KUN!, PE, image!), January 1933, *J. L. Zuo & N. Q. Chen 23052* (IBSC!, KUN!, PE, NAS!, P, US, image!), July 1933, *X. R. Liang 61888* (IBSC!, KUN!, PE, image!, US, image!), *Z. Huang 32761* (IBSC!), August 1933, *Z. Huang 33823* (IBSC!), October 1933, *Z. Huang 34891* (IBK!, IBSC!), July 1964, *P. Y. Huang 295* (SYS!), October 1984, *Q. Li 157* (SYS!), September 1986, *Q. Li 247, 257* (SYS!), August 1987, *Q. Li 8706* (SYS!). **VIETNAM:** **Tonkin**, October 1885, *B. Balansa 1118* (K, P, US, image!), *B. Balansa 1119* (P, G, GDC, image!). **Hue**, September 1921, *F. A. McClure 7332* (US, image!).

#### *Murraya elongata* A. DC. ex Hook. f.

**BANGLADESH:** **Chittagong**, *M. K. Mia & M. Rahman 45* (L, image!). **Sylhet**, 1832, *N. Wallich 6369B* (GDC, image!). **CAMBODIA:** **Koh Kong**, May 1928, *E. Poilane 15300* (P, image!). Siêm Réap, Siem Reap, Cambodge, March 1928, *E. Poilane 14989* (L, P, image!). **CHINA:** **Yunnan**, 1956, *Sino-Soviet Explorer 784, 1934* (PE, image!); **Funing**, April 1940, *Q. W. Wang 87150, 88822, 88940* (HITBC!, IBSC!, KUN!, PE, image!), *87159, 88199, 88523, 88630* (KUN!, PE, image!), May 1940, *Q. W. Wang 89278* (HITBC!, IBSC!, KUN!, PE, image!); **Yanshan**, March 1984, *Q. Li 135* (SYS!); **Hekou**, April 1953, *K. H. Cai 638* (PE, image!), June 1953, *Z. D. Kan 1260* (KUN!, PE, image!); **Jinping**, August 1951, *P. Y. Mao 633* (KUN!); **Mengzi**, September 1939, *Q. W. Wang 81683* (KUN!), *81510, 81784* (KUN!, PE, image!); **Shuangjiang**, December 1958, *T. P. Zhu 516* (IBSC!, KUN!, PE, image!), April 1976, *Y. H. Li 20103* (HITBC!, KUN!); **Mengla**, April 1976, *Y. H. Li 20103* (KUN!), November 1983, *Explorer 23955* (HITBC!); **Jinghong**, December 1961, *Y. H. Li 3815* (IBSC!, KUN!), May 1962, *Y. H. Li 4269* (IBSC!), 1983, *G. D. Tao 44056* (HITBC!), May 1962, *Y. H. Li 4269* (HITBC!, IBK!); **Menglian**, May 1972, *P. Z. Zhu 8069* (HITBC!), July 1973, *Menglian Explorer 9249* (HITBC!, IBSC!, KUN!, SYS!), September 1987, *D. D. Tao 87037* (KUN!); **Lancang**, May 1936, *Q. W. Wang 76582* (KUN!, PE, image!); **Jingdong**, April 1940, *M. G. Li 3241, 3246* (KUN!); **Cangyuan**, May 1981, *R. J. Wu 176* (SWFC!), April 1987, *L. H. Zhou & R. C. Li 870928* (YUKU!); **Fengqin**, November 1977, *Q. Lin 7736* (KUN!); **Yongde**, July 2005, *E. D. Liu et al. 1092* (KUN!); **Yuanjiang**, November 1964, *Y. H. Li 5896* (KUN!), May 1984, *G. D. Tao 37928* (HITBC!); **Shidian**, May 1955, *Sino-Soviet Explorer 5667* (PE, image!); **Yunlong**, November 1987, *Explorer 176* (SWFC!); **Lushui**, April 1957, *W. X. Liu 159* (KUN!, PE, image!), May 1957, *W. X. Liu 229* (KUN!, PE, image!), April 1960, *Nanshuiheidiao 8085* (YUKU!), March 1989, *H. Sun 1663* (KUN!). **Guizhou**, September 1936, *S. W. Deng 90848* (KUN!, AU, L, image!), March 1960, *Guizhou Explorer 150* (PE, image!), August 1960, *Guizhou Explorer 8211* (PE, image!), October 1991, *Dian-Qian-Gui Explorer 50926* (KUN!); **Anlong**, May 1960, *Guizhou Explorer 3712* (IBSC!, PE, image!), *3876* (IBSC!, KUN!, PE, image!), June 1960, *Guizhou Explorer 4355, 5434* (IBSC!, PE, image!), September 1985, *H. T. Zhang 1049* (KUN!); **Xingren**, October 1998, *S. G. Wu et al. 100911* (KUN!); **Wangmo**, April 1960, *Guizhou Explorer 1214, 2150* (IBSC!, PE, image!); **Xingyi**, July 1960, *Guizhou Explorer 6513, 6977* (IBSC!, PE, image!); **Sandu**, October 1980, *Y. K. Li 8389* (IBSC!, SYS!); **Luodian**, April 1959, *Qiannan Explorer 263, 692* (PE, image!), March 1960, *Guizhou Explorer 150* (PE, image!), *283, 639* (IBSC!, PE, image!), *485, 750* (IBSC!), May 1991, *Dian-Qian-Gui Explorer 40098, 40477, 40100* (KUN!); **Ceheng**, November 1958, *Z. Y. Cao 1242* (PE, image!); **Libo**, May 1981, *R. B. Jiang 81-0061* (IBSC!), April 1984, *Z. R. Xu L1205* (IBSC!), *L1438* (IBSC!), *L1439* (SYS!). **Guangxi**, April 1933, *Y. Jiang 12952* (KUN!); **Daxing**, August 1958, *Z. X. Zhang & S. L. Wang 4041* (IBK!), Lingui, October 1955, *C. F. Liang 31568* (IBK!), March 1960, *M. A. Liao 644* (IBK!); **Lingle**, June 1959, *Z. T. Li 603271* (IBK!, IBSC!); **Longlin**, April 1957, *C. F. Liang & D. L. Wu 31996* (IBK!), Kechang, November 1957, *Z. Q. Zhang 10666* (KUN!), *10754* (IBSC!), *10755* (IBK!, KUN!), *Yacha, S. Q. Tan et al. 261* (IBK!); **Longzhou**, Wuchong, August 1957, *S. Q. Chen 13089* (KUN!), *13319* (IBK!, IBSC!, KUN!), *13556* (IBK!, IBSC!), September 1979, *Nonggang Explorer 10596* (SYS!); **Tian'e**, May 1957, *Z. Huang 432720* (IBSC!), August 1958, *Z. T. Li 601230* (KUN!), April 1978, *Tia'e Explorer 4-6-0239* (GXMI!); **Yongfu**, October 1957, *Z. G. Liu 50017* (IBSC!, IBK!); **Huanjiang**, October 1991, *Dian-Qian-Gui Explorer YGG 70078* (KUN!), March 2013, *Huangjiang Explorer 451226130315042LY* (GXMG!); **Leye**, May 1989, *Hongshuihe Plant Explorer 808* (KUN!), September 2013, *Tianlin Explorer 451029130907011* (GXMG!); **Tianlin**, April 1989, *Hongshuihe Plant Explorer 240* (KUN!), May 1989, *1662, 89-1551* (KUN!); **Baise**, December 1955, *Baise Explorer 1125* (PE, image!); **Babu**, December 1958, *S. Q. Zhong A62755* (PE, image!); **Pingle**, December 1958, *S. Q. Zhong A62822* (PE, image!); **Guilin**, July 1937, *W. T. Tsang 27820* (SYS!), August 1937, *W. T. Tsang 28053* (SYS!); **Fusui**, March 1933, *W. T. Tsang 21857* (IBSC!, SYS!); **Donglan**, April 1977, *Donglan Explorer 4-9-79, 4-9-152* (GXMI!); **Guanyang**, November 2015, *Guanyang Explorer 450327151129008LY* (IBK!); **Beihai**, Kweichow, January 1936, *S. W. Teng 90848* (L, image!); **Nanning**, February 1933, *W. T. Tsang 21798* (SYS!); **Lingui**, April 1954, *C. F. Liang 31189* (KUN!), August 1997, *G. Z. Li*



15908 (PE, image!); **Yangshuo**, April 1938, *R. H. Shan 768, 811* (PE, image!), July 1953, *Y. B. Xu 10560* (KUN!), October 1963, *Z. Y. Chen 53193* (KUN!), November 1963, *Z. Y. Chen 53401* (IBK!, KUN!). **Hunan, Yizhang**, April 1934, *W. T. Tsang 23584* (IBSC!, SYS!), February 1941, *B. H. Liang 83062* (IBSC!), January 1942, *S. Q. Chen 3* (IBSC, PE, image!); **Jianghua**, November 1975, *B. G. Li et al. 5422* (IBSC!, KUN!, PE, image!); **Xinning**, July 1985, *Y. B. Luo 2918* (PE, image!); **Dong'an**, October 2003, *J. K. Liu 281* (NY, image!), April 2004, *J. K. Liu 444* (NY, image!). **Guangdong**, November 1926, *W. T. Tsang 3073* (SYS!), 1933, *Y. Jiang 12952* (PE, image!); **Guangzhou**, August 1928, *Y. Jiang 999* (PE, image!), 1928, *Y. Jiang 1016* (PE, image!), May 1929, *Y. Jiang 2211* (SYS!, PE, AU, image!); **Gaoyao**, February 1957, *B. H. Laing 88812* (CANT!); **Beiji**, December 1927, *H. Y. Chen 5998* (IBSC!); **Boluo**, September 1958, *Z. F. Wei 121772* (IBSC!, KUN!, PE, image!), October 1977, *236-6 Explorer 3200* (PE, image!); **Conghua**, November 1958, *L. Deng 8463* (IBSC!, KUN!, PE, image!); **Lianxian**, November 1930, *X. P. Gao 50968* (KUN!); **Liannan**, August 1958, *P. X. Tan 58847* (KUN!, PE, image!); **Ruyuan**, November 1933, *X. P. Gao 53806* (KUN!), April 1934, *X. P. Gao 54159* (IBSC!, KUN!, PE, image!), October 1938, *X. Q. Liu 29103* (IBSC!), October 1956, *Z. Huang 42286* (IBSC!, SYS!), April 1984, *Q. Li 40* (SYS!); **Yingde**, April 1926, *Y. Jiang 13649* (IBSC!), August 1930, *J. L. Zuo 22142* (IBSC!), December 1979, *P. Zeng 4019, 4020* (SYS!), December 1983, *Q. Li 13* (SYS!); **Yunfu**, November 1934, *L. Deng 10144* (IBSC!); **Lechang**, October 1930, *N. Q. Chen 41938* (PE, image!); **Yangjiang**, September 1907, *Anonymous 1446* (PE, image!); **Wengyuan**, November 1932, *X. Q. Liu 862* (SYS!), October 1933, *X. Q. Liu 2481* (SYS!). **Hainan**, May 1932, *X. R. Liang 61725* (PE, image!); **Dongfang**, August 1936, *X. Q. Liu 27726* (PE, image!), June 1983, *S. M. Huang 176* (IBSC!), September 1986, *Q. Li 260* (SYS!); **Danzhou**, May 1928, *W. T. Tsang 589* (IBSC!, PE, image!, SYS!), February 1933, *X. Q. Liu 1170* (SYS!); **Baisha**, May 1955, *X. R. Liang 68685* (IBSC!, PE, image!); **Lehui**, May 1935, *K. Z. Hou 72276* (IBSC!); **Changjiang**, March 1933, *X. Q. Liu 1531* (SYS!); **Ledong**, March 1934, *X. Q. Liu 3541* (SYS!); **Sanya**, July 1932, *X. Q. Liu 232* (PE, image!), July 1932, *X. Q. Liu 252* (SYS!), September 1933, *Z. Huang 34132* (IBK!, IBSC!, PE, image!), October 1984, *Q. Li 160* (SYS!), October 1987, *Z. X. Li et al. 2597* (IBSC!); **Lingshui**, January 1934, *Z. Huang 36422* (IBK!, IBSC!, PE, image!).

**INDIA**: *W. Roxburgh s.n.* (BM, image!), *R. Herb Wight 371* (L, image!), 1815, *N. Wallich 314* (GDC, image!), 1823, *L. T. L eschenault de la Tour 183* (GDC, image!), 1832, *R. Wight 4368* (GDC, image!), *s. coll. Cat. no. 6368.C* (K, image!), *s. coll. Cat. no. 6368.E* (K, image!). **Hurdwar**, 1825, *N. Wallich Cat. no. 6368.F* (K, image!). **Sirmore, Kamrup Cat. no. 6368.G (K, image!). **Courtallam**, May 1814, *s. coll. Cat. no. 6368.B* (K, image!). **Monghyr**, May 1811, *6368.D2* (K, image!). **Assam, Simons s.n. (L, image!), April 1951, *W. N. Koelz 27424* (L, image!), July 1952, *T. R. Chand 6339 A* (L, image!); Nongthomai, Shillong, April 1958, *G. K. Deka 11166* (L, image!), April 1951, *T. R. Chand 4518* (L, image!); Lohit F. D. (NEFA), Songodam to Dreyi, November 1957, *R. S. Rao 10411* (L, image!); Cherrapunjee, August 1952, *T. R. Chand 6353* (L, image!); Tura Mountain, Garo Hills, March 1950, *T. R. Chand 2886* (L, image!). **Mysore**, March 1963, *A. S. Rao 86661* (L, image!). **Andaman and Nicobar Islands**, the Andaman Islands, January 1884, *G. King's collector 352* (L, image!); Panighat, May 1974, *N. P. Balakrishnan 1328* (L, image!). **Tamil Nadu**, Pacchaimalais, July 1978, *K. M. Matthew & N. Venugopal RHT 15590* (L, image!). **Uttar Pradesh**, October 1977, *K. U. Kramer & G. B. Nair 5936* (U, image!).****

**LAOS**: **Muang Cha**, Chuenj Kwang, April 1932, *A. F. G. Herb Kerr 21090* (L, image!). **Champasak**, Khong, Khon Island, April 1998, *J. F. Maxwell 98-521* (L, image!).

**MALAYSIA**: July 1953, *J. Sinclair & S. F. N. Kiah 39852* (L, image!), February 1968, *F. S. P. Ng KEP FRI 5862* (L, image!), June 1991, *Ching S 63300* (K, image!), May 1973, *Aban & Shoe SAN 76754* (K, image!), *Anthony & Kiew RK 4380* (K, image!). **Perak** Cave temple, March 1971, *S. C. Chin 991* (L, image!). **Pulau Tioman**, May 1974, *B. C. Stine 11916* (L, image!); Gunong Raya F. R., May 1958, *A. Tajuddin KEP 89502* (L, image!). **SARAWAK, Sandakan**, April 1994, *E. J. F. Campbell 434* (L, image!). **Gunong** Raya F. R., May 1958, *A. Tajuddin KEP 89502* (L, image!); **Gunong Rapat**, February 1967, *F. S. P. Ng KEP FRI 1925* (L, image!). **Balambangan Island**, October 1994, *J. B. Sugau et al. 3* (L, image!). **Gua Musang**, July 1967, *T. C. Whitmore KEP FRI 4040* (L, image!). **BORNEO, Sabah**, May 1948, *F. A. Melegrito 427* (L, image!); **Lahad Datu**, Ganduman, *Saikeh Lantoh SAN 82356* (L, image!), Kinabatangan, July 1954, *G. H. S. Wood A 4625* (L, image!); Gunong Rapat, March 1971, *S. C. Chin 756* (L, image!); **Sandakan**, February 1960, *W. Meijer SAN 20539* (L, image!), Pababag Is. F. R., August 1936, *H. G. BNBFD Keith 6210* (L, image!); Gomantong, April 1936, *M. BNBFD Puasa 5963* (L, image!); Keningau, June 1951, *A. Cuadra A 3270* (L, image!), August 1965, *John Kuripin Lajangah SAN 44554* (L, image!); **Tomani**, Tenom, Tambaon Hill, July 1966, *A. H. SAN Talip 50536* (L, image!); **Semporna**, Kabugan Bay, April 1950, *A. Gunsaga 165* (L, image!); **Tawau**, March 1963, *A. Gibot SAN 34056* (L, image!).

**MYANMAR**: *H. Griffith 52091* (L, image!), November, *s. coll. Cat. no. 6369* (K, image!). **Great Cocos Island**, October 1969, *U. Maung Gale-2 14657* (E, image!), February 1909, *Herb. J. H. Lace 4662* (E, image!).

**NEPAL**: *Anon s.n.* (GDC, image!), 1821, *N. Wallich s.n.* (GDC, image!), April 1967, *D. H. Nicolson 3119* (L, image!). **Nawalparasi**, January 1996, *M. Mikage et al. 9612106* (L, image!).

**PAKISTAN**: Punjab, March 1988, *G. B. Nair 36317* (L, image!).

**SRI LANKA**: **Uva**, Badulla, March 1975, *L. H. Cramer 4431* (L, image!). **Central Province**, Looecondera, October 1978, *F. R. Fosberg 58155* (L, image!). **Trincomalee**, Kuchchavelli, May 1973, *A. J. G. H. Kostermans 24810* (L, image!). Summit of Hantane Ridge above Kandy, April 1980, *A. J. G. H. Kostermans 28286* (L, image!).

**TAIWAN**: **Pingdong**, December 1999, *Q. M. Wang 4039* (PE, image!).

**THAILAND**: August 1929, *N. Put 2430* (L, image!). **Saraburi**, Sahn Lahn, January 1975, *R. Geesink & J. F. Maxwell 8362* (L, image!). **Utai Thani**, Ban Rai, Huai Ka Kaeng Game Reserve, February 1970, *C. F. van Beusekom & T. Santisuk 2886, 2935* (L, image!). **Chantaburi**, Foot of Khao Soi Dao, November 1969, *C. F. van Beusekom & T. Smitinand 2056* (L, image!). **Chiang Mai**, Doi Sutep, *T. Sørensen et al. 5788* (L, image!); Muang, Sukotie, June 1972, *J. F. Maxwell 72-292* (L, image!); Chiang Dao, Doi Chiang Dao, February 1989, *J. F. Maxwell, 89-196* (L, image!). **Nakhon Phanom**, Phu Langka National Park, June 2013, *M. Visser, et al. MV-PL 368* (L, image!). **Kasetsart**, *J. F. Maxwell 71-95* (L, image!). **Lampang**, Muang Bahn (Pan), Jae Sawn National Park, February 1993, *J. F. Maxwell 96-263* (L, image!). **Kanchanaburi**, March 1975, *S. Indrapong et al. 107* (L, image!); Sai Yok, May, 2005, *J. F. Maxwell 05-333* (L, image!). **Bangkok**, January 1899, *R. Zimmermann 30* (U, image!); Kasetsart University, January 1971, *J. F. Maxwell 71-6* (U, image!); Thonburi (or Banggrajon, Samut Prakan), February 1970, *J. F. Maxwell 70-25* (L, image!). **Phitsanulok**, Tung Salaeng Luang National Park, July 1973, *G. Murata, N. Fukuoka & C. Phengklay T-17104* (L, image!). **Phayao**, Mung, February 1999, *N. Morci, 1397. 0* (L, image!), May 1997, *J. F. Maxwell 97-475* (L, image!), January 1969, *N. Cheviwat & B. Nimanong 41* (L, image!). **Chumphon**, Peninsular, July 1959, *Chin 4* (L, image!). **Banggrajon**, Samut Prakan, February 1970, *J. F. Maxwell 70-27* (L, image!).

**VIETNAM**: *João de Loureiro 270* (BM, image!). **Nui Han Heo** près de Nha Trang, October 1922, *E. Poilane 4951* (L, P, image!). **Thanh Hoa**, Nhu Xuan, Ben En National Park, December 2006, *H. V. Sam 273* (L, image!). **Quang Tri**, *E. Poilane 1248* (L, image!). **Ninh Binh**, *M. V. Sinh 80* (L, image!); Nho Quan, May 2000, *D. D. Soejarto et al. 11512* (L, image!).



### *Murraya gleniei* Thwaites ex Oliv.

**SRI LANKA:** *W. Ferguson s.n.* (K, image!); **Trincomalee**, April 1860, *S. O. Glenie s.n.* (K, image!), 1861, *G. H. K. Thwaites 3627* (BM, GDC, FR, image!), road to Kuchchaveli from Nilla, July 1973, *J. W. Nowicke & M. Jayasuriya 289* (US, image!), Forest between Mutur & Foul Point, February 1972, *M. Jayasuriya et al. 660* (US, image!), Soodaikuddai- Foul Point, April 1974, *D. B. Sumithraarachchi & A. H. M. Jayasuriya DBS230* (US, image!); **Wilpattu**, National Park, April 1969, *D. Mueller-Dombois 69042809* (US, image!), between Magul Illaima and Malimaduwa, July 1969, *N. Wirawan et al. 1139* (L, US, image!). **Medawachiya**, Forest Reserve, August 1970, *W. Meijer & Mashiah 96* (US, image!). **Vavuniya**, Mullaittivu, Lagoon near Alampil, July 1971, *W. Meijer & S. Balasubramaniam 759* (US, image!). **Anuradhapura**, West shore of Nuwara wewa behind the Nuwara wewa Rest House, October 1973, *S. H. Sohmer 8093* (US, image!).

### *Murraya lucida* (G. Forst.) Mabb.

**AUSTRALIA:** July 1985, *J. Randall s.n.* (SYS!). **Queensland**, *F. M. Mueller s.n.* (L, image!), *Rev. N. Michael 1209* (E, image!), January 1863, *A. Dietrich* (WAG, P, image!); **Bowen**, January 1931, *C. E. Hubbard & C. W. Winders 6590* (L, image!), May 1802, *R. Brown 5341* (E, image!); **Gladstone**, near Targinnie, August 1973, *V. K. Moriarty 1342* (L, image!); **Kennedy**, August 1964, *Adams 1260* (L, P, image!); **Port Curtis**, Mt Fairview State Forest, May 1988, *G. N. Batianoff & T. Ryan 980595* (L, image!), Shoalwater Bay, October 1989, *G. N. Batianoff et al. 11641* (L, image!); **Percy Island**, October 1989, *G. N. Batianoff et al. 11641* (L, image!), Calliope, August 1993, *H. Streimann 80046* (L, image!); **Leichhardt**, June, *R. Story & Yapp 41* (L, P, image!); **Wide Bay**, Burnett Heads road, October 1948, *L. S. Smith 4171 A* (L, image!), Stony Creek, 4 km E of Didcot, October 1990, *P. I. Forster 7528* (L, image!); **Ambrose**, September 1963, *N. H. Speck 1788* (L, image!); **Rockhampton**, *A. Dietrich 884, 928, 1968, 2794, 2811* (MEL, image!). **New South Wales**, Bathurst Bay, October 1970, *B. Hyland 4840* (L, image!); **Keppock**, Wide Bay, October 1948, *L. S. Smith, 4161* (L, image!); **Cook**, Horn Island, King Point, April 1986, *J. R. Clarkson 6481* (L, image!), Round Mountain, Embley Range, June 1992, *P. I. Forster & M. C. Tucker 10463* (L, image!); **Arnhem Land**, Elcho Island, Warangaiyu Lagoon, July 1975, *C. R. Dunlop 3829* (L, image!).

**FRENCH POLYNESIA:** *Peter (Pyotr) Simon von Pallas s.n.* (BM, image!). Archipel Société, March 1982, *J. Florence 2623* (P, image!). **NEW CALEDONIA:** *E. F. Deplanche 6* (L, image!), *J. Pancher 715* (P, image!), 1861, *E. Deplanche 439* (P, image!), 1862, *J. Pancher s.n., 5506* (P, image!), January 1868, *B. Balansa N. Caled. 1031* (L, image!). **Mt. Kafente**, *A. Guillaumin & M. G. Baumann-Bodenheim 9724* (L, P, image!). **Naya Baii**, March 1951, *A. Guillaumin & M. G. Baumann-Bodenheim 11492* (L, P, image!); Chez Napoléon, 1965, *J. P. Blanchon 1329* (P, image!). **Bourail**, December 1990, *J. M. Veillon 7289* (P, image!). **Mt. Rafecte**, *A. Guillaumin & M. G. Baumann-Bodenheim 9700* (L, P, image!). **Maye Baie**, *A. Guillaumin & M. G. Baumann-Bodenheim 11466* (L, P, image!). **Pente Ouen Toro**, September 1955, *H. S. MacKee 3144* (P, image!). **Bord de la mer à Gatope**, *E. Vieillard 2376* (P, image!). **Vallée Pouembout**, August 1973, *H. S. MacKee 27084* (P, image!). **Nouméa**, baie Tina, March 1980, *M. Hoff 1993* (P, image!), *G. McPherson 2318* (P, image!); Bois de Port Despointes, November 1942, *R. Virost 821, 914* (P, image!); Magenta, January 1925, *A. U. Däniker 994* (P, image!). **Quilchambo**, December 1950, *A. Guillaumin 9300* (P, L, image!). **Omechaubo**, December 1950, *A. Guillaumin & M. G. Baumann-Bodenheim 9300* (L, image!).

**PAPUA NEW GUINEA:** December 1966, *C. E. Ridsdale NGF 30442* (L, image!), May 1967, *R. Pullen 6880* (L, image!), June 1969, *H. Streimann NGF. 39493* (L, image!), May 1972, *D. B. Foreman LAE 52067* (L, image!), May 1975, *E. E. Henty NGF 49765* (L, image!). **Morobe**, Bulolo, March 1962, *T. G. Hartley 9976* (L, image!), Wau, March 1967, *A. Kairo & H. Streimann NGF 27928* (L, image!), January 1977, *W. Moi 150* (L, image!); Sturt Island, October 1936, *L. J. Brass, Fly River Expedition of the American Museum of Natural History 8050* (L, image!); Tovobada Hills, May 1965, *P. C. Heyligers 1127* (L, image!); Crooked Creek, November 1962, *T. G. Hartley 10887* (L, image!); Lake Wanum, *Plantae Novoguineensis*, January 1960, *E. E. Henty NGF 11671* (L, image!). **Gwabe**, Esa'ala Fergusson Island, November 1976, *J. R. Croft et al. LAE 68842* (L, image!). **Rigo**, Nom. Ind. Noord. January 1903, *Atasrip 183* (L, image!), November 1967, *R. Levingston NGF 36404* (L, image!).

**PHILIPPINES:** **LUZON**, *Wilkes Explor. Exped. s.n.* (US, image!); **Ilocos Norte**, February 1997, *H. G. Garcia & L. Fernando PPI 25198* (L, image!); **Laguna**, Los Baños (Mt. Maquiling), June 1917, *A. D. E. Elmer 18166* (L, image!); **Rizal**, April 1914, *E. D. Merrill & S. P. Blancoan 245* (US, image!), Montalban, March 1917, *A. D. E. Elmer 17493* (L, image!). **PALAWAN**, April 1906, *H. M. Curran FB 4131* (L, image!); **Aborlan**, May 1955, *M. Celestinó & J. Ramos PNH 23027, 23047* (L, image!); Puerto Princesa, April 1911, *A. D. E. Elmer 13109* (L, image!), Tacduan, January 1991, *D. D. Soejarto & O. Fernando 7397* (L, image!), Lipuun Island, April 1964, *D. R. Mendoza PNH 91208* (L, image!), May 1964, *P. A. Cordero Jr & R. A. Espiritu PNH 91488* (L, image!); **Camarines Sur**, April, 1987, *D. A. Madulid 6791* (L, image!). **MINDORO**, Mt. Yagaw (SE slope), July 1953, *H. C. Conklin PNH 18606* (L, image!). **MINDANAO**, Davao, Todaya (Mt. Apo), October 1909, *A. D. E. Elmer 12034* (L, image!); Mt. Urdaneta, August 1912, *A. D. E. Elmer 13647* (L, image!). **Leyte**, February 1916, *C. A. Wenzel 1637* (L, image!). **SAMAR**, March 1914, *M. B. S. Ramos 17569* (L, image!). **Quezon**, Alabat, March 1996, *F. J. M. Gaerlan & E. M. Romero PPI 23674* (L, image!). Sohoton, Samar, Rawis, May 1971, *University of San Carlos 340* (L, image!). **Pinamalanay**, Mindoro, June 1922, *M. Ramos BS 40941* (L, image!). **Agusan del Norte**, August 1912, *A. D. E. Elmer 13647* (K, US, NY, image!).

**SOLOMON ISLANDS:** **Guadalcanal**, November 1968, *R. Mauriasi et al. BSIP 12403* (L, image!), April 1969, *I. H. Gafui et al. BSIP 14623* (L, image!); Honiara Guadalcanal, December 1964, *G. F. C. Dennis BSIP 4431* (L, image!); Rove Valley, May 1967, *A. Nakisi BSIP 7328* (L, image!); Second E-W Ridge, Rove to White River area, December 1964, *F. Kere BSIP 5016* (L, image!); Ridge north of Lambi Bay, *I. H. Gafui et al. BSIP 9263* (L, image!).

**THE COOK ISLANDS:** Rarotonga, September 1969, *W. R. Philipson 10197* (L, image!).

**VANUATU:** **Filakara**, Epi. Village, July 1993, *J. Josiah 13* (L, image!), *J. G. A. Forster s.n.* (BM, GOET, image!). **Malekula**, Tenmel area southeast of Lasenuwei, March 1994, *P. Curry 1480* (L, image!). **Aniwa**, Imale, December 1993, *F. Kamasteia 19* (L, image!). **Aniwa**, Ikaokao, December 1993, *J. Josiah 119* (L, image!). **Sanma**, Esperitu Santo, Tasmate, November 2006, *J. N. Labat & T. Haevermans 3813* (P, image!), Esperitu Santo, Santo, Basse Vallée de l'Apouna, September 1971, *Expedition RSNH 24307* (L, image!).

**Murraya omphalocarpa** Hayata

**PHILIPPINES:** LUZON, **Isabela**, May 1909, *M. Ramos* FB 7990 (L, image!); **Lagayan**, February 1920, *L. Aguilar* 28112 (L, image!); **Cagayan**, Penablanca, Quibal, January 1994, *E. J. Reynoso et al.* PPI 11749, PPI 11816 (L, image!), Brgy, December 1995, *Barbon et al.* 18793 (L, image!), February 1997, *R. E. Fuentes & de la Rosa* PPI 38857 (L, image!). **Batanes**, April 1996, *D. A. Madulid et al.* PPI 23786, PPI 23948 (L, image!); **Basco**, April 1996, *D. A. Madulid et al.* PPI 26082 (L, image!), May 1996, *D. A. Madulid et al.* PPI 23974 (L, image!).

**TAIWAN,** **Taidong**, Lanyu, August 1962, *C. E. Chang* 3055 (TAI, image!), August 1969, *T. C. Huang & M. T. Kao* 5254 (TAI, image!), August 1970, *M. T. Kao* 7672 (TAI, image!), August 1973, *T. C. Huang & M. T. Kao* 6949 (TAI, image!), August 1977, *Z. Z. Wang* 1519 (TAI, image!), April 1983, *T. C. Huang et al.* 9208 (TAI, image!), January 1984, *D. D. Soejarto & J. C. Regalado* 5727 (US, image!), June 1985, *Y. L. Jeng* 899 (TAI, image!), February 1986, *T. C. Huang et al.* 10520, 10642 (TAI, L, image!), July 1988, *Ou & Kao* 10720 (TAI, image!), July 1992, *T. C. Huang et al.* 15706 (TAI, image!), May 1993, *T. H. Hsieh & Y. C. Hsu* 1371 (TAI, image!); Green Island, July 1930, *Y. Kudo & K. Mori* 180 (TAI, image!), August 1956, *T. I. Chuang & C. C. Hau* 2302 (TAI, image!), August 1968, *J. C. Xu* 9410 (TAI, image!), September 1968, *J. C. Xu* 9458, 9471 (TAI, image!), August 1973, *C. M. Kuo* 3845 (TAI, image!), April 1985, *C. I. Peng* 7608 (HAST, image!), April 1987, *C. I. Peng* 10749 (HAST, image!), *J. C. Wang* 6853 (HAST, image!), *T. Y. A. Yang & K. C. Wang* 9774 (PE, image!), March 1998, *T. Y. A. Yang & K. C. Wang* 10104 (PE, image!), October 2001, *Y. Y. Huang et al.* 785 (PE, image!).

**Murraya paniculata** (L.) Jack

**BOINAIRE:** *J. van Groll-Meyer s.n.* (U, image!). **Saint Eustatius**, Saba, July 1906, *I. Boldingh* 1908 B (U, image!).

**BRAZIL:** May 1993, *M. H. Nee* 43511 (U, image!). **São Paulo**, May 1981, *K. Mizoguchi* 1708 (NY, image!).

**CHINA:** **Yunnan**, **Hekou**, April 1953, *K. H. Cai* 638 (KUN!), May 1953, *K. H. Cai* 1113 (KUN!, PE, image!), July 1953, *W. X. Liu* 265 (HITBC!, IBSC!, KUN!, PE, image!), December 1953, *P. Y. Mao* 3326 (PE, image!), 3327 (IBSC!, KUN!, PE, image!), December 1953, *P. Y. Mao* 3327 (HITBC!), June 1956, *Sino-Soviet Explorer* 2256 (PE, image!), YUKU!, May 1958, *Y. Y. Hu et al.* 580130 (KUN!), **Mengla**, November 1979, *J. Y. Cui* 14737 (HITBC!, KUN!), April 1985, *C. Y. Yang* 4824 (PE, image!), December 1985, *D. D. Tao et al.* 85674, 85720 (KUN!), April 1986, *Y. Zhang* 41001 (HITBC!), May 1989, *Y. M. Xia* 32 (HITBC!); **Jingdong**, June 1993, *Penghua et al.* 350 (KUN!); **Yuanjiang**, April 1990, *Yuxi Plant Explorer* 2136 (KUN!); **Lushui**, *Nanshuibeidiao (Dianxibei)* 8085 (PE, image!). **Guangxi**, **Yongning**, July 1958, *S. Q. Zhong* 301939 (IBK!); **Luzhai**, April 2005, *Y. M. Wang* 54 (PE, image!), May 2005, *Y. M. Wang* 259 (PE, image!); **Cangwu**, November 1958, *S. Q. Zhong* A62931 (KUN!, PE, image!); **Hengxian**, July 1957, *Z. Z. Chen* 50678 (KUN!, PE, image!); **Tianlin**, August 1988, *Y. Tan* 1055 (KUN!); **Longzhou**, July 1935, *X. P. Gao* 55454 (IBK!, IBSC!), September 1935, *X. R. Liang* 65787 (PE, image!), August 1958, *Z. Q. Zhang* 11456 (IBSC!); **Napo**, October 1935, *X. P. Gao* 55454 (PE, image!). **Guangdong**, July 1925, *G. P. Du* 3689 (SYS!), June 1981, *H. G. Yip* 251 (L, image!); **Guangzhou**, December 1950, April 1951, *J. R. Fu* 246 (SYS!), *S. Q. Chen* 7048 (PE, image!), June 1957, *W. T. Lin* 30476 (CANT!), September 1979, *P. Zeng* 4014, 4015 (SYS!), March 1987, *C. S. Wang* 284 (PE, image!); **Lufeng**, August 1958, *Z. F. Wei* 121155 (IBK!, IBSC!, KUN!, PE, image!); **Boluo**, February 1930, *N. Q. Chen* 40462 (IBK!, IBSC!, SYS!), March 1932, *D. M. Xu* 21 (PE, image!), August 1934, *F. P. Metcalf* 17487 (SYS!); **Xuwen**, December 1954, *Y. D. Zhou* 100186 (IBK!); **Ruyuan**, October 1924, *X. Q. Liu* 24769 (IBSC!, KUN!, PE, image!); **Huiyang**, April 1932, *W. T. Tsang* 20035 (PE, image!, SYS!); **Wenyuan**, October 1933, *X. Q. Liu* 2566 (SYS!). **Fujian**, **Fuzhou**, June 1974, *236-6 Explorer* 454 (PE, image!); **Longyan**, November 1943, *R. Lin* 5605 (PE, image!); **Sanyuan**, *G. S. He* 7676 (IBSC!); **Xiamen**, November 1978, *G. D. Ye* 936 (IBSC!); **Zhangping**, November 1932, *R. Lin* 4503 (PE, image!). **Hainan**, **Dongfang**, May 1957, *Y. Zhong* 3325 (CANT!); **Wanning**, March 1995, *F. W. Xin et al.* 5867 (IBSC!); **Ledong**, November 1978, *G. S. Zhou* 78223 (IBSC!, PE, image!); **Sanya**, October 1984, *Q. Li* 162 (SYS!); **Changjiang**, March 1984, *Q. Li* 2 (SYS!). **Hong Kong**, April 1928, *H. Y. Chen* 6223 (IBSC!), June 1933, *Z. Huang* 32418 (IBSC!, PE, image!). **Macao**, April 1969, *S. Y. Hu* 7208 (PE, image!), December 1969, *S. Y. Hu* 9226 (PE, image!), February 1970, *S. Y. Hu* 9517 (PE, image!), January 1973, *S. Y. Hu* 12665 (PE, image!), October 1973, *Kit Yock Chan* 1239 (PE, image!), November 2003, *H. G. Ye & F. W. Xin* 9334 (IBSC!).

**CUBA:** **Ciudad de La Habana**, Botanical Garden, February 1905, *A. H. Curtiss* 649 (L, image!), **La Habana**, November 1904, *M. Abarca Vasquez* 3866 (NY, image!), March 1905, *H. A. van Hermann* 705 (NY, image!). **Matanzas**, March 1903, *N. L. Britton* 531 (NY, image!). Botanical Garden, February 1928, *J. T. P. Bijhouwer* 219 (WAG, image!).

**CURAÇAO:** **Willemstad**, October 1947, *M. Arnoldo* 974 (U, image!), December 1952, *A. L. Stoffers s.n.* (U, image!).

**DOMINICANA:** **Santo Domingo**, June 1946, *H. A. Allard* 12189 (US, image!), October 1980, *M. Mejia* 8662 (US, image!), March 1981, *T. A. Zanoni et al.* 11718 (U, image!); **Santiago**, October 1980, *E. L. Ekman* H 16089 (U, US, image!). **Moncion**, May 1983, *T. A. Zanoni* 25962 (U, image!).

**FRENCH POLYNESIA:** **The Society Islands**, Island of Raiatea, November 1926, *J. W. Moore* 361 (U, image!).

**GUADELOUPE:** **Basse-Terre**, January 1935, *Stehlé* 102 (NY, image!).

**HAITI:** **Hispaniola**, October 1928, *E. L. Ekman* H 10796 (US, image!); **Ouest**, October 1927, *E. L. Ekman* H 9100 (US, image!); **Jérémie**, February 1942, *R. J. Seibert* 1759 (US, image!); **Montecristi**, *E. J. Valeur* 773 (US, image!), September 1929, *E. J. Valeur* 153 (US, image!); **San Cristóbal**, July 1921, *J. A. Faris* 481 (US, image!).

**HISPANIOLA:** **Hatte**, October 1928, *E. L. Ekman* H 10796 (U, image!); Bonaire, Saint Eustatius, *J. van Groll-Meyer* 2197-369-1906 (L, image!).

**INDIA:** *s. coll. Cat. no. 6368.H* (K, image!); 1808, *s. coll. Cat. no. 6368.SUPPL* (K, image!); April 1812, *s. coll. Cat. no. 6368.D1* (K, image!). **Courtallam**, *s. coll. Cat. no. 6368.A* (K, image!). **Hurdwar**, 1825, *N. Wallich* *Cat. no. 6368* (K, image!). **West Bengal**, *N. Wallich s.n.* (GDC, image!). **Madhya Pradesh**, December 1875, *C. E. O. Kuntze* 7354 (NY, image!).

**INDONESIA:** **JAVA**, *C. A. Backer* 21010 (L, image!), December 1988, *Harini* 142 (L, image!); **Semarang**, *W. J. C. Kooper s.n.* (U, image!); **Tjikopo**, Zuid van Buitenzorg, June 1947, *J. P. Sijkens* 28 (L, image!). **Maluku Islands**, Amboina, July-November 1913, *C. B. Robinson* 249 (L, image!).

**JAMAICA:** **Saint Ann**, April 1958, *T. G. Yuncker* 18628 (NY, image!).

**JAPAN:** **Okinawa**, *E. H. Walker et al.* 5823 (L, image!); **Ryukyu**, Ishigaki Shima, June 1956, *F. R. Fosberg* 37442 (L, image!), January 1957, *H. Noguchi* 3185 (L, image!), June 1973, *S. Kurata & T. Nakaie* 901 (U, image!), June 1973, *Miyoshi Furuse* 3488 (PE, image!), February 1974, *Miyoshi Furuse* 5260 (PE, image!), Uehara, Taketomi-ho, Taketomi-cho, November 1988, *R. Minagawa* R-5838 (TNS, image!), July 2002, *K. Yasuda* 784 (L, image!), June 2012, *G. Kokubugata* 14845 (TNS, image!); Ishigaki-shi, September 1977, *J. Haginiwa s.n.* (TNS, image!), Tarama-son, August 2009, *M. Yokota* 12031 (TNS, image!). **Kyusyu**, Kagoshima, July, 1965, *Miyoshi*



*Furuse* 43328 (PE, image!), December 1966, 44767 (PE, image!), June 1969, *Miyoshi Furuse* 47576 (PE, image!). **Tokyo**, Ogasawara-mura, August 2014, *G. Kokubugata & T. Yasui* 18088 (TNS, image!).  
**MALAYA**: Kuala Lukpur, cultivated, May 1970, *B. C. Stone*, 8798 (L, image!).  
**MAURITIUS**: Ile Maurice, 1826, *F. W. Sieber* 280 (L, GDC, image!).  
**MAURITIUS**: July 1984, *D. H. Lorence et al.* 4463 (WAG, image!).  
**MAYOTTE**: Entre Chiconi et Ouangani, November 2000, *J. N. Labat* 3298 (P, image!). Grande terre, Chiconi Bord de route entre Chiconi et Ouangani, February 2001, *F. Barthelat et al.* 284 (P, image!).  
**MEXICO**: Chiapas, January 1955, *G. B. Ross* 13a-55 (US, image!).  
**MONTSERRAT**: Saint Anthony, May 1979, *R. A. Howard* 19206 (NY, image!).  
**MYANMAR**: Myitkgine, July 1912, *E. M. Bachauau* 70 (E, image!).  
**NEW CALEDONIA**: 1792, *F. de Lahaie* 1334 (P, image!). **Nouméa**, Anse Vata, January 1951, *M. G. Baumann-Bodenheim* 9898 (P, image!). **Ouilchambo**, December 1950, *Baumann-Bodenheim* 9366 (P, image!). **Païta**, November 1980, *H. S. MacKee* 38284 (P, image!). **Sarraméa**, Edouard Brinon Property, October 1980, *H. Brinon* 835 (P, image!).  
**PUERTO RICO**: Ballena Bay, Jan 1936, *J. I. Otero Jañez* 4 (NY, image!).  
**PUERTO RICO**: Rincón, Mar 1996, *B. M. Boom* 10915 (NY, image!).  
**PUERTO RICO**: Rio Piedras, February 1965, *R. J. Wagner* 763 (U, image!).  
**SEYCHELLES**: La Digue, July 1970, *J. Procter & W. André* 4027 (L, image!).  
**SEYCHELLES**: Silhouette, February 1962, *C. Jeffrey et al.* 1157 (L, image!).  
**SURINAM**: Care J. F. Dore, *J. F. Pool* 77 (L, image!).  
**SURINAME**: Paramaribo, October 1972, *C. Kock s.n.* (U, image!).  
**TAIWAN**: Taibei, June 1928, *S. Saito* 7674 (L, image!); Miaoli, December 1997, *Q. M. Wang et al.* 2896 (IBSC!); Taidong, December 1996, *Tsui-Ya Liu et al.* 1195 (PE, image!); Pingtung, Chupeng-Kaohsih, October 1929, *S. Saito* 3501 (L, image!); Kürun, August 1929, *T. Tanaka* 338 (L, image!); Shirin, Taihoku-shu, June 1932, *T. Tanaka & Y. Shimada* 11099 (L, image!).  
**THAILAND**: Chon Buri, Siracha, Si Chang Island, east side of Kow Kwang, July 1993, *J. F. Maxwell* 93-819 (L, image!). **Nakhon Phanom**, Phu Langka National Park, June 2013, *M. Visser et al.* MV-PL 572 (L, image!). **Chiang Mai**, Muang, July 1991, *J. F. Maxwell* 91-705 (L, image!).  
**THE UNITED STATES**: Hawaii, Oahu, 1929, November *A. Forbes* 73 (US, image!), August 1967, *D. Herbst* 536 (L, US, image!), July 1969, *J. S. Henrickson* 3961 (US, image!), August 1969, *S. H. Sohmer* 5977 (US, image!), Maui, Kaupo, July 2001, *F. Starr* 010726-7 (US, image!). **California**, February 1973, *W. C. Brumbach* 8225 (NY, image!), April 1980, *P. A. Hyppio* 2350 (NY, image!), March 1982, *R. Kral* 68057 (NY, image!), March 1985, *S. R. Hill* 16094 (NY, image!), May 1999, *C. R. Annable* 3964 (NY, image!), Jane 2000, *R. Kral* 89127 (GH, image!). **Virgin Islands**, *H. F. A. Eggers* von 567 (L, image!). **Florida**, September 1938, *J. L. Fennell* 767 (ECON, image!), March 1939, *J. L. Fennell* 891 (ECON, image!); Lee County, March 1973, *W. C. Brumbach* 8225 (GH, image!); Monroe County, March 1985, *S. R. Hill* 16094 (GH, image!). **New York**, May 1993, *C. Pinheiro* 54, *M. Nee* 43511 (NY, image!). **Washington D. C.**, May 1915, *W. T. Swingle* 7975 (NY, image!), 1917, *W. T. Swingle* 2767 (NY, image!).  
**VIETNAM**: Vinh Haul Cai Mou pr. den Beurké, *E. Poilane* 23323 (L, image!).

### *Murraya sumatrana* Roxb.

**BANGLADESH**: Sylhet, cultivated, *F. De Silva* Cat. no. 6369.B (K, image!); s. coll. Cat. no. 6369.A, Cat. no. 6369.D (K, image!).  
**INDONESIA**: January 1867, *J. E. Teijsmann s.n.* (L, image!). **Sumatra**, Padang, *J. G. Herb Boerlage s.n.* (L, image!); Aceh, Aër Djoman, Asahan, East of Serbangan, October 1935, *Rahmat Si Boeea* 8357 (L, US, image!); Archipel. Ind. Sum. Atjeh en Ond. Gajo Loeëus, Boer ni Sangir, February 1937, *Neth. Ind. For. Service* bb 22475 (L, image!). **Sulawesi Utara**, **Manado**, Poso, Todjo, February 1940, *Boschproefstation* bb 31496 (L, image!). **SULAWESI**, **Celebes**, January 1859, *W. H. de Vriese & J. E. Teijsmann s.n.* (L, image!); **Minahassa** (Menado), February 1895, *S. H. Koorders* 18917  $\beta$  (L, image!), Ost-Celebes, Loewoek, January 1920, *W. Kaudern s.n.* (L, image!). **JAVA**, *F. W. Junghuhn s.n.* (L, image!), *P. W. Korthals* 996 (L, image!), *P. W. Korthals s.n.* (L, image!), *H. Zollinger* 129 (L, image!), January 1915, September 1922, *R. C. Bakhuizen van den Brink Jr* 1782 (U, image!), August 1984, *D. A. Powell & Kim Chey H'ng* 744 (L, image!); **Japara Soemanding**, April 1936, *Neth. Ind. For. Service* Ja 3814 (L, image!); **Semarang Kedoengdjati**, October 1888, *S. H. Koorders* 7042  $\beta$  (L, image!), April 1888, *S. H. Koorders* 7045  $\beta$  (L, image!), August 1888, *S. H. Koorders* 7047  $\beta$  (L, image!), November 1888, *S. H. Koorders* 7043  $\beta$ , 7044  $\beta$  (L, image!), August 1889, *S. H. Koorders* 7055  $\beta$  (L, image!), September 1889, *S. H. Koorders* 7046  $\beta$  (L, image!), October 1896, *S. H. Koorders* 25036  $\beta$ , 25105  $\beta$ , 25299  $\beta$  (L, image!), June 1900, *S. H. Koorders* 33694  $\beta$  (L, image!), Tjiminoi, November 1948, *S. M. Popta* 641/138 (L, image!); **Besoeki**, Rogodjampi Balak, Besoeki Poeger, December 1889, *S. H. Koorders* 7057  $\beta$  (L, image!), January 1930, *K. G. Booberg s.n.* (L, image!); **Soekaradja** Gadoengan Paré, June 1896, *S. H. Koorders* 22498  $\beta$  (L, image!); **Lawang**, October 1963, *A. Dilmy* 771 (L, image!); **Insulam Javam**, *G. H. de Vriese s.n.* (L, image!); **Banjoemas**, November 1891, *S. H. Koorders* 7025  $\beta$  (L, image!); Pekalongan, Soebah, September 1893, *S. H. Koorders* 13543  $\beta$  (L, image!); **Soerabaja**, Modjokerk, June 1923, *J. D. Dorgelo* 1912 (L, image!). **Eiland Bawean**, N. van Oost Java, January 1954, *A. Hoogerwerf* 225 (L, image!); Bezoeki, Poeger, January 1930, *K. G. Booberg s.n.* (L, image!); **Regentsch**, Bodjonegoro Klino, January 1931, *Boschproefstation* Ja 2081 (L, image!). **BORNEO**, **Martapura**, *P. W. Korthals s.n.* (L, image!).  
**LESSER SUNDA ISLANDS**, *J. Forbes* 3329 (L, image!), *J. A. J. Verheijen* 3441 (L, image!), January 1820, *J. A. J. Verheijen* 1820/21 (L, image!), November 1966, *E. Schmutz* 836 (L, image!), August 1976, *J. Metzner* 152 (L, image!), October 1985, *M. M. J. van Balgooy* 5260 (L, image!); **Komodo Island**, August 1962, *Saakov* 169 (L, image!); **Manggarai**, *Kostermans AJGH* 22006 (L, image!), June 1964, *J. A. J. Verheijen* 1822 (L, image!), November 1967, *E. Schmutz* 1890 (L, image!), July 1983, *E. Schmutz* 5967 (L, image!), November 1983, *E. Schmutz* 6035 (L, image!). **MOLUCCAS**, November 1937, *G. A. L. de Haan* bb 23820 (L, image!), September 1950, *G. A. L. de Haan* 1761 (L, image!); **Soela islands**, *Atjeh & P van Expedition Hulstijn* 223 (L, image!), October 1864, *E. A. Forsten s.n.* (L, image!); **Halmahera**, June 2013, *T. J. F. Bangun et al* 814 (L, image!). **Selibatabata** (Aru islands), June 1938, *P. Buwalda* 5276 (L, image!); **Aru Bab**, South Tanimbar, **Southeast Maluku** (Maluku), November 1985, *Purwaningsih & Sanusi* 81 (L, image!); **Oiilit**, April 1938, *Anonymous* bb 24438 L, (image!). **Bangka**, *Anonymous s.n.* (L, image!); **Aru Archipelago**, Jirlay, November 1994, *H. P. Nooteboom*, 6098 (L, image!); **Flores-Manggarai Nunang**, June 1984, *E. Schmutz* 6055 a (L, image!); **Sumbawa Besar**, May 1961, *E. Kuswata Kartawinata* 110 (L, image!). **Timor Boti**, April 2011, *I Made Maduarta (Pung)* IMM 105 (L, image!). **Pasar Hinggoe**, Mt. Cornelis, September 1928, *J. van der Meer* 160 (WAG, image!). Houtvesterij Oost Tegal, *Boschproefstation* 4377 (WAG, image!).  
**WEST PAPUA**, **Okaba**, October 1907, *A. L. Branderhorst* 140 (L, image!); **Sorong**, Radjah Ampat, Batanta Island, Marchesa Bay,



April 1954, *P. Royen* 3535 (L, image!).

**MYANMAR:** **Tanintharyi**, Tavoy, cultivated, 1827, *W. Gomez Cat. no. 6369.C* (K, image!).

**PHILIPPINES:** July 1920, *M. Ramos* 75265 (SYS!), May 1929, *M. Ramos* 77442 (SYS!), March 1930, *G. Edano* 916, 479258 (SYS!), June 1930, *M. Ramos* 80584 (SYS!), January 1994, *Reynoso et al. PPI* 11748 (L, image!), February 1995, *Reynoso et al. PPI* 14853 (L, image!), February 1997, *Fernando Garcia PPI* 25171 (L, image!). **Tawi-tawi**, Birad-dali (Angel), May 1992, *F. J. M. Gaerlan & E. Sagcal PPI* 10058, 10078 (L, image!). **Sulu Archipelago**, January 1957, *Y. Kondo & G. E. Edaño PNH* 38968 (L, image!). **MINDANAO, Agusan**, Cabadbaran, April 1949, *D. R. Mendoza & P. Convozar PNH* 10646 (L, image!). **LUZON**, June 1903, *E. D. Merrill* 2768 (L, image!), November 1908, *R. Rosenbluth* 12804 (L, image!), April 1914, *F. Otones BS* 17838 (L, image!); **Bulacan**, April 1986, *C. E. Ridsdale* 1909 (L, image!), June 1986, *C. E. Ridsdale* 1909 (L, image!); **Barangay Guijalo**, *E. J. Reynoso et al. PPI* 14736, 14853 (L, image!); **Sorsogon**, Irosin (Mt. Bulusan), September 1916, *A. D. E. Elmer* 17415 (L, image!), Bulusan, November 1996, *H. G. Garcia & L. Fernando PPI* 25005 (L, image!); **Batangas**, August 1914, *M. Ramos* 1918 (L, image!).

**THE UNITED STATES:** **Florida**, cultivated, September 1938, *J. L. Fennell* 766, 767 (ECON, image!), March 1939, *J. L. Fennell* 891 (ECON, image!).

### ***Murraya zollingeri*** (Tanaka) F.J. Mou

**INDONESIA:** **Insula Sumbawa (Lesser Sunda Islands)**, Bima, in sylvis prope Sangar, August 1847, *H. Zollinger* 3351 (P, L, K, image!). **Maluku**, Maluku Islands, Central Halmahera, January 2013, *T. J. F. Bangun et al.* 535 (L, image!), June 2013, *T. J. F. Bangun et al.* 814, 796 (L, image!).

**EAST TIMOR:** **Timor**, Archipels Ind., February 1946, *Anonymous* 414 (US, image!).