



## Supplement

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**Appendix:** The detail specimen information:

1. *Peperomia japonica* Makino, Bot. Mag. Tokyo **15**: 145. 1901.

*Peperomia formosana* C. DC. Ann. Conserv. Jard. Bot. Genève **21**: 223. 1920

*Peperomia laticaulis* C. DC., Ann. Conserv. Jard. Bot. Genève **21**: 223-224. 1920.

**Specimens examined: Taiwan: New Taipei City**, Sanzhi Dist., Palaka Road, H.L. Chiang 1828, Feb. 25, 2001 (TAIF); Sanxia Dist., Mt. Peichatienshan, P.F. Lu 15907, May 11, 2008 (TAIF), Sanhsia, J.C. Wang 3278, May 24, 1985 (TAI), J.C. Wang 3278, May 24, 1985 (TAI); Shiding Dist., Kankou, S. Lin s.n., May 27, 1933 (TAI), Shiding, S.Y. Lu 1562, May 12, 1974 (TAIF); Wugu Dist., Mt. Guanyinshan, J. Fukuyama & S. Miura 143, May 26, 1940 (TAI); Wulai Dist., Kalamochi Alley, P.F. Lu 20129, Apr. 24, 2010 (TAIF), Taipei Co. #107 Hwy, C.C. Wang et al. 357, Jul. 22, 2003 (TAIF, TNM), Tunghou Trail, C.L. Huang 847, Sep. 23, 1979 (TAI), W.C. Huang 168, Jul. 5, 2003 (TAIF), Wawaku, T.Y. Chiang, 1143, May 9, 1982 (TAI), Wulai, S. Suzuki 10121, Mar. 28, 1932 (TAI), K. Mori s.n., May 20, 1932 (TAI), B. Bartholomew 6226 & D.E. Boufford, Mar. 19, 1992 (TNM), W.P. Leu et al. 1673, Feb. 12, 1993 (TNM), H.L. Chiang 543, Mar. 26, 1998 (TAIF), P.F. Lu 1169, Apr. 23, 2000 (TAIF), Yunhsienloyuan, C.M. Wang et al. 11846, Apr. 10, 2008 (TNM), Sunglohu, P.F. Lu 18029, Mar. 28, 2009 (TAIF). **Taipei City**, Beitou Dist., Mt. Chungchengshan, C.M. Wang & Y.H. Tsai 2971, Apr. 3, 1998 (TNM), Chutzuhu, W.P. Leu et al. 1864, Jun. 10, 1993 (TNM), Fonling waterfall, C.F. Hsieh & K.C. Yang 1455, Jun. 25, 1983 (TAI), B.L. Shih 1147, Jul. 24, 1985 (TAIF), Mt. Tatungshan, C.M. Kuo 8281, Apr. 15, 1977 (TAI); Neihu Dist., Pihu, S.F. Huang 2793, May 8, 1985 (TAI). **Keelung City**, Keelung, S. Sasaki s.n., Mar. 1, 1913 (TAIF), G. Masamune et al. 52, Jul. 15, 1934 (TAI). **Taoyuan City**, Fuxing Dist., Paleng, S.Y. Lu 19135, May 6, 1986 (TAIF); Guishan Dist., Kueishan, H. Simada 726, Jun. 12, 1934 (TAI); Hsiaowulai, C.M. Kuo 11118, May 21, 1979 (TAI). **Hsinchu County**, Jianshi Township, Ssumakussu Bridge, H.Y. Chen 1213, Jun. 12, 1999 (TNM), Nanping Ancient Trail, P.F. Lu 18114, Apr. 11, 2009 (TAIF). **Taichung City**, Heping Dist., Prov. #8 Hwy, Y.C. Lu 59, Jul. 19, 2013 (TNM), 49-50 km, T.Y.A. Yang 2967, Apr. 25, 1986 (TNM), Basianshan Forest Recreation Areas, S. Suzuki 2860, Oct. 22, 1929 (TAI), J.C. Wang 11032, Jul. 20, 1999 (TAIF), Chiapaotai, Y.H. Hwang 67, Jun. 22, 1993 (TNM), S.Y. Huang et al. 180, Apr. 28, 2001 (TAI), Chinlehsi, C.M. Wang 859, Jun. 21, 1994 (TNM), Chingshan-Malun, W.S. Tang 373, Apr. 6, 1984 (TAI), Dasyueshan Forest Road, T.Y.A. Yang 9431, Oct. 8, 1997 (TNM), Techi Reservoir, C.M. Kuo 8760, Jun. 16, 1977 (TAI), Tefulan Trail, Y.C. Lu 60, Jul. 19, 2013 (TNM). **Nantou County**, Lugu Township, Mt. Fenghuangshan, S.Z. Yang 10521, Jul. 14, 1987 (PPI), Fenghuangshan Trail, S.Y. Tsai & J.F. Ye 93, Jun. 23, 2011 (TNM), 3.8 km, T.Y.A. Yang et al. 23964, Jan. 17, 2014 (TNM), Fenghuangku, H.N. Yang 1643, Dec. 24, 1978 (TAI), Hsitou, C.E. Chang 18335, Jul. 14, 1987 (PPI), C.N. Kon & G.S. Wang 311, 321, May 15, 1988 (TNM), H.M. Song & S.Y. Jaw 133, May 15, 1988 (TNM), C.C. Wu et al. 171, Aug. 11, 2004 (TNM); Renai Township, Guandaushi, C.S. Kuoh 4255, Sep. 7, 1972 (TAI), Hsinseng, S. Suzuki s.n., Jul. 21, 1926 (TAI), Huisun Forest Area, T.C. Huang & M.T. Kao 612, Sep. 7, 19728 (TAI), Meifeng Farm, Masamune 2133, Jul. 30, 1939 (TAI), Mt. Peitungyenshan, Y.C. Lu 70, Nov. 1, 2013 (TNM), Wusheh, G. Masamune 1345, Jul. 14, 1930 (TAI); Xinyi Township, Hosheh, Y. Yamamoto s.n., Nov. 10, 1938 (TAI), T.C. Huang 4067, Aug. 17, 1967 (TAI), Lele, T. Suzuki 13275, Jul. 28, 1935 (TAI), Shenmu Village, C.M. Wang 12080, Jul. 8, 2008 (TNM), C.H. Chen 10480, Apr. 11, 2011 (TNM), Tungpu, Y.C. Jeng 2515, Nov. 19, 1977 (TAI), Tungpu-Lele, S.F. Huang 5247, Jul. 7, 1993 (TAI); Yuchi Township, Lienhuachih, S. Hibino & S. Suzuki s.n., Jul. 18, 1936 (TAI). **Chiayi County**, Alishan Township, Laichi, H.F. Yen 26834, Jun. 17, 2003 (TNM), Shihtzulu-Tefuyeh, H.F. Yen 14914, Feb. 13, 1997 (TNM); Fanlu Township, Kuolungsai, C.M. Wang & C.Y. Li 4884, May 5, 2001 (TNM); Zhuqi Township, Fenchihu, C.E. Chang 15778, Oct. 5, 1980 (PPI). **Kaohsiung City**, Jiaxian Dist., Mt. Paiyunshan, H.F. Yen 2666, Jun. 28, 1988 (TNM); Taoyuan Dist., T.Y. Liu et al. 385, May 10, 1994 (TNM), Likuan, C.H. Chen & Y.S. Liang 7863, Sep. 7, 2006 (TNM), Meishan Village, South Cross Highway, C.S. Kuoh 11119, Feb. 21, 1987 (TNM), 111-112K, C.S. Kuoh 11559, Apr. 25, 1987 (TNM), 112-113K, C.S. Kuoh 12260, Jul. 25, 1987 (TNM), 115Km, Y.S. Liang 986, Jun. 30, 2006 (TNM), Meilan Logging Trail, S.H. Huang 98, Jul. 26, 2000 (PPI), Stream Weichinhsi to Nannong Logging Trail, C.S. Kuoh 12329, Aug. 23, 1987 (TNM). **Pingtung County**, Fangliao Township, Chinshuiyin, S.Z. Yang 22888, Apr. 27, 1990 (PPI), S.Z. Yang 28296, Jul. 23, 1999 (PPI); Hengchun Township, Kuanshan, W.L. Chiou 11320, Apr. 16, 1984 (TAIF), Oluanpi, W.L. Chiou 12410, Mar. 25, 1985 (TAIF), Mt. Tachienshienshan, T.Y.A. Yang 1131, Feb. 3, 1985 (TAI), T.Y.A. Yang et al. 4569, Apr. 7, 1989 (TNM); Laiyi Township, Laiyi, E. Matuda 607, Jul. 1, 1916 (TAI); Majia Township, Majia, T.C. Huang & M.T. Kao 7373, Sep. 10, 1973 (TAI); Manzhou Township, Mt. Laofoshan, C.M. Wang et al. 8056, Jan. 7, 2005 (TNM), G.P. Hsieh 2414, Feb. 28, 2006 (PPI), Mt. Nanjenshan, T.Y.A. Yang 11809, Apr. 07, 1999 (TNM), T.Y.A. Yang et al. 14882, May 25, 2002 (TNM), S.M. Ku 681, Aug. 13, 2000 (PPI), Y.C. Lu 104, Jun. 25, 2014 (TNM), Y.C. Lu 150, Jun. 15, 2015 (TNM), Wantao-Nanjenshan, T.Y.A. Yang et al. 4320, Jan. 28, 1989 (TNM); Mudan Township, Mudan, M. Kudo 3030, Dec. 25, 1930 (TAI); Shizi Township, Mt. Chachayehlaishan, S.Z. Yang et al. 25010, May 2, 1992 (PPI), S.Z. Yang 30478, Jul. 23, 1993 (PPI), S.Z. Yang 26792, Apr. 24, 1994 (PPI); Taiwu Township, Taiwu, E. Matuda s.n., Jan. 1, 1916 (TAI), Y.H. Tzeng 481, Apr. 29, 2001 (TAIF); Wutai Township, Ali-Firest Lodge, S.Z. Yang 10226, Jul. 13, 1989 (PPI), Lake Hsiaokueihu, C.S. Kuoh 14346, Apr. 30, 1988 (TNM), Wutai, S. Suzuki 11259, Sep. 1, 1932 (TAI), S.Z. Yang 10273, Jul. 13, 1989 (PPI), C.C. Lu s.n., Apr. 9, 2000 (TAIF), H.F. Yen 31054, Jan. 31, 2005 (TNM), Mt. Wutoushan, S.Z. Yang 9943, Jul. 5, 1988 (PPI). **Yilan County**, Datong Township, Sunchitsun, S. Suzuki s.n., Oct. 23, 1928 (TAI), Mt. Taipingshan, S. Suzuki s.n., Aug. 15, 1928 (TAI); Nanao Township, Mt. Aoweishan, G. Masamune s.n., Apr. 26, 1938 (TAI), Nanao Ancient Trail, J.N. Chen 666, Mar. 8, 2006 (TNM), P.F. Lu 20485, Jun. 13, 2010 (TAIF), Stream Nanaonanhsi, S.Y. Lu 16273, May 21, 1985 (TAIF); Toucheng Township, Kueishan Island, C.F. Chen et al. 3201, Mar. 26, 2008 (TNM); Stream Wuminghsi, T.Y.A. Yang & S.J. Huang 22978, May 6, 2011 (TNM); Yuanshan Township, Fushan, C.C. Hsu s.n., Feb. 25, 1998 (TAIF); Prov. #8 Hwy 150K, Y.W. Wang 132, Jul. 1, 2007 (TNM). **Hualien County**, Fuli Township, Mt. Hsinkangshan, H.Y. Shen et al. 653, Apr. 15, 1998 (TNM), Shihtsokou, S.H. Liu & C.W. Chen 796, Mar. 11, 2004 (TAIF); Shoufeng Township, Shuilian, Y. Yamamoto 451, Aug. 21, 1929 (TAI); Xiulin Township, Temple Chankuangsi, Y.C. Lu 145, May 19, 2015 (TNM), Changchuncho, O. Kao 9385, May 2, 1980 (TAI), Chilai 4 km, T.Y.A. Yang et al. 20063, Mar. 29, 2008 (TNM), Mt. Chingshuishan, C.H. Chen et al. 2768, May 22, 1999 (TNM), Stream Chingshuihsi, T. Shimizu & M.T. Kao 11646, Mar. 28, 1961 (TAI), Mt. Chuilushan, T.T. He 108, Mar. 30, 2007 (TAIF), Chuilu Ancient Trail, P.F. Lu 22002, May 22, 2011 (TAIF), Datong-Shakatang, T.C. Huang et al. 12940, Jul. 26, 1986 (TAI),



Beside the Heren Train Station, *C.H. Chen & C.H. Chu 6360*, Apr. 20, 2005 (TNM), Sanchan, *S. Suzuki 5067*, Oct. 15, 1934 (TAI), Shakatang Trail 4K, *T.Y.A. Yang et al. 20138*, Mar. 30, 2008 (TNM), Sheauchingshoei, *S.Y. Lu 18841*, Apr. 6, 1986 (TAIF), Yenhai Forest Road, *S.Y. Lu 23800*, Aug. 19, 1988 (TAIF), *T.Y.A. Yang et al. 5481*, Apr. 3, 1991 (TNM), *C.H. Chen 6412*, Apr. 21, 2005 (TNM), *T.Y.A. Yang 21600*, Mar. 15, 2009 (TNM); Zhuoxi Township, Huangma-Nanan, *T.P. Chiang et al. 69*, Aug. 2, 1993 (TNM), Nanan-Walami, *C.I. Huang et al. 228*, Feb. 4, 1999 (TNM), Beside the Patungkuan Ancient Trail Xinbang Drawbridge, *J.C. Wu 351*, Apr. 7, 2009 (PPI). **Taitung County**, Beinan Township, Chihpen-Chuifen, *S. Suzuki 10627*, Aug. 28, 1932 (TAI); Daren Township, Gualun, *T. Kawakami & U. Mori s.n.*, Apr. 23, 1907 (TAIF), Chushuipo, *Y. Yamamoto s.n.*, Jun., 1927 (TAI), Daren, *Y.C. Lu 149*, Jun. 15, 2015 (TNM); Donghe Township, Mt. Tulanshan, *S.W. Chung 9355*, Jan. 13, 2009 (TAIF); Taimali Township, Taimali Logging Trail, *S.T. Chiu 1640*, Mar. 19, 1993 (TNM), *S.W. Chung & P.H. Lee 6459*, Jul. 1, 2003 (TAIF); Yanping Township, Hutieku, *T.Y.A. Yang & R.F. Chao 14832*, May 13, 2002 (TNM), Yenping Forest Road, *S.H. Liu & C.W. Chen 777*, Mar. 10, 2004 (TAIF); Coastal Mountain Ridge, *Y. Yamamoto 457*, Apr. 7, 1930 (TAI).

**Japan:** The Kochi Prefectural Makino Botanical Garden, *Y.C. Lu 106*, Aug. 12, 2013 (TNM).

**China:** Fukien, *S.T. Geng 161*, Nov. 29, 2014 (TAI).

## 2. *Peperomia leptostachya* Hook. & Arn., Bot. Beechey Voy. 2: 96. 1832.

*Peperomia blanda* var. *leptostachya* (Hook. & Arn.) Düll. in Bot. Jahrb. Syst. 93: 110. 1973.

*Peperomia dindygulensis* Miq., Syst. Piperac. 1: 122. 1843.

*Peperomia sui* T.T. Lin & S.Y. Lu, *Taiwania* 40: 353. 1995.

**Specimens examined:** **Taiwan:** **New Taipei City**, Wulai Dist., *T. Ito s.n.*, Apr. 1, 1915 (TAIF). **Taichung City**, Heping Dist., Prov. #8 Hwy, *Y.C. Lu 58*, Jul. 19, 2013 (TNM), *Y.C. Lu 107*, Nov. 15, 2014 (TNM), Basianshan Forest Recreation Areas, *J.C. Wang et al. 11032*, Jul. 20, 1999 (TNM), Kukuan, *H.F. Yen 3843*, May 20, 1990 (TNM), Sungho, *P.F. Lu 7983*, Jun. 12, 2004 (TAIF). **Nantou County**, Renai Township, Wenfeng Village, *C.M. Wang & P.F. Lu 10404*, Jul. 8, 2007 (TNM). **Yunlin County**, Gukeng Township, Tsaoling, *T.Y.A. Yang & S.J. Huang 22977*, May 6, 2011 (TNM). **Kaohsiung City**, Maolin Dist, Shanping, *S.Y. Lu 16124*, Sep. 5, 1985 (TAIF); Taoyuan Dist, Chinho Village, *P.H. Lee et al. 3101*, Oct. 22, 2013 (PPI), Fusing Hot Spring, *S.W. Chung 7509*, Oct. 3, 2004 (PPI). **Pingtung County**, Manzhou Township, Nanjenshan Working Station, *T.Y.A. Yang et al. 23104*, Jun. 27, 2011 (TNM); Mudan Township, Mt. Lilungshan, *Y.C. Liu 68*, Feb. 16, 2015 (TNM); Wutai Township, Haocha, *S.Z. Yang 28160*, Jun. 2, 1999 (PPI), Wutai, *G.P. Hsieh 717*, Aug. 13, 2002 (PPI). **Hualien County**, Fuli Township, Luoshan waterfall, *C.M. Wang & K.C. Chang 14097*, Nov. 13, 2010 (TNM); Zhuoxi Township, Tafen, *H.F. Lai 18*, Jul. 8, 2007 (PPI). **Taitung County**, Haiduan Township, *Z.W. Lee 184*, Wulu, Aug. 11, 2002 (TNM).

**China:** **Yunnan Province**, Kai-Hua Town, Xi-Hua Park, *T.Y.A. Yang et al. 23898*, Dec. 10, 2013 (TNM).

## 3. *Peperomia nakaharae* Hayata, J. Coll. Sci. Univ. Tokyo 25: 188. 1908.

**Specimens examined:** **Taiwan:** **Miaoli County**, Taian Township, Chiuchiu Shelter-Matalahsi, *W.L. Chiou & T.T. Lin 11798*, Aug. 4, 1984 (TAIF). **Taichung City**, Heping Dist., Mt. Anmashan, *J.C. Wang et al. 5004*, Aug. 7, 1987 (TAI), Anmashan Station, *T.Y.A. Yang 9446*, Oct. 8, 1997 (TNM), Basianshan Forest Recreation Areas, *Sasaki s.n.*, Nov. 23, 1922 (TAIF), Mt. Dasyueshan, Xueshan Police Station, *Y.C. Lu et al. 79*, Nov. 9, 2013 (TNM), Mt. Dasyueshan, *Y.C. Lu et al. 109*, Dec. 31, 2014 (TNM). **Chiayi County**, Alishan Township, Mt. Alishan, *S. Sasaki s.n.*, Dec. 3, 1933 (TAI). **Kaohsiung City**, Maolin Dist., Takueihu, Oct. 6, 1986, *S.Y. Lu 20293* (TAIF). **Pingtung County**, Taiwu Township, Kuaikushanchuang, *S.Z. Yang & C.G. Lin 11991*, Feb. 7, 1990 (PPI), Mt. Peitawushan, *T.C. Huang et al. 13675*, Jul. 16, 1988 (TAI); Wutai Township, Mt. Chihpenchushan, *S.Z. Yang & C.G. Lin 11621*, Feb. 13, 1990 (PPI). **Yilan County**, Datong Township, Mt. Taipingshan, *S. Suzuki 944*, Jul. 16, 1929 (TAI); Nanao Township, Piyahau-Saukan, *S. Tokio 7109*, Jul. 15, 1932 (TAI). **Hualien County**, Xiulin Township, Mt. Chingshuishan, *W.L. Chiou & M.C. Ho s.n.*, Apr. 27, 1983 (TAIF), *T.C. Huang 12960*, Jul. 25, 1986 (TAI), Datong, *Z.W. Lee et al. 636*, Jul. 3, 2003 (TAIF); Zhuoxi Township, Tomeili of Patungkuan Ancient Trail, *J.C. Wu 451*, May 28, 2009 (PPI). **Taitung County**, Haiduan Township, Liyuan-Hsiangyang, *S.W. Chung & T.Y. Hsieh 7349*, Oct. 7, 2004 (TAIF).

## 4. *Peperomia pellucida* (L.) Kunth, Nov. Gen. Sp. 1: 64. 1816.

**Specimens examined:** **Taiwan:** **Taipei City**, Daan Dist., Herbarium of National Taiwan University, *C.C. Hsu 5670*, Aug. 9, 1969 (TAI); Nangang Dist., Academia Sinica, *Y.N. Ko 1348*, Sep. 8, 2004 (TNM); Zhongzheng Dist., Taipei Botanical Garden, *S.Y. Lu 24232*, Aug. 1, 1994 (TAIF), *H.L. Chiang 939*, Sep. 8, 1999 (TAIF). **Taichung City**, North Dist., National Museum of Natural Science, *Y.C. Lu 147*, May 27, 2015 (TNM). **Nantou County**, Lugu Township, Lugu Village, *C.W. He s.n.*, Sep. 21, 2002 (TAIF); Yuchi Township, Sun Moon Lake, *J.P. Lin 216*, Nov. 25, 1989 (TAIF). **Chiayi City**, East Dist., Chiayi Branch, Taiwan Agricultural Research Institute, 1993, *H.F. Yen 8130*, Aug. 17 (TNM). **Chiayi County**, Zhuqi Township, Kuanyin waterfall, *C.M. Wang & Y.M. Hsu 7704*, Sep. 9, 2004 (TNM), *T.C. Hsu 1562*, Aug. 20, 2008 (TAIF). **Pingtung City**, National Pingtung Teachers College, *M.C. Chen s.n.*, Aug. 2, 2001 (TAIF). **Pingtung County**, Gaoshu Township, Beside the Yenshan Road, *S.Z. Yang 28616*, Dec. 22, 1999 (TNM); Hengchun Township, Kenting National Park, *S.T. Chiu & C.H. Chu 2578*, Sep. 7, 1994 (TNM), *C.H. Horng s.n.*, Oct. 4, 1995 (TAIF); Jiuru Township, Jiuru, *H.L. Chiang 1106*, Apr. 22, 2000 (TAIF); Liuqiu Township, Xiao Liuqiu, *T.Y. Lo 98*, May 25, 2007 (PPI); Neipu Township, Dongpian Village, Datong Road, *S.J. Yang 28759*, Dec. 10, 1999 (TAIF). **Hualien County**, Jian Township, *Y.Y. Chang s.n.*, Aug. 12, 1991 (TAIF), *L. C. Hsu s.n.*, Aug. 14, 1991 (TAIF), Fuhsing Village, *P.I. Lin et al. 19*, Dec. 13, 2003 (TAIF). **Hualien County**, Hualien City, Meilun Industrial Park, *S.T. Hung s.n.*, Nov. 18, 2000 (TAIF).



## 5. *Peperomia rubrivenosa* C. DC., Philip. J. Sci. Bot. 5: 409. 1910.

*Peperomia kotoensis* Yamamoto, Suppl. Ic. Pl. Formosan. 2: 9. f. 4. 1926.

**Specimens examined: Taiwan: New Taipei City**, Shuangxi Dist., Mt. Wangxingshan, C.F. Chen 6127, Jul. 15, 2014 (TAIF). **Taitung County**, Lanyu Township, G. Masamune 4179, May 10, 1943 (TAI), Lanyu, S.Y. Lu 17615, Oct. 24, 1985 (TAIF), W.Y. Wang 1465, Jan. 31, 2013 (TAIF); Dongqing Village, Mt. Chingsheshan, C.E. Chang 9098, Jan. 12, 1976 (PPI), T.C. Hsu 140, Apr. 2, 2005 (TAIF), Stream Tungchinghsi, T.C. Hsu 139, Apr. 2, 2005 (TAIF), M.J. Jung 4790, Jan. 30, 2010 (TAIF); Hungtou Village, Mt. Tashenshan, T. Hosokawa 8118, Jul. 10, 1935 (TAI); Tienchih, T.C. Huang et al. 9419, Apr. 29, 1983 (TAI), S.F. Huang 2701, Apr. 1, 1985 (TAI), T.C. Huang 10618, Feb. 18, 1986 (TAI), T.Y.A. Yang & K.C. Wang 9856, Dec. 17, 1997 (TNM); Langdao Village, Mt. Shasheshan, T. Sata 1173, Aug. 7, 1932 (TAI); Yehyu Village, Mt. Hungtoushan, T. Hosokawa 9907, Mar. 19, 1943 (TAI), C.E. Chang 17835, Oct. 25, 1986 (PPI), 16801, Sep. 8, 2004 (PPI), S.Y. Lu 18446, Feb. 22, 1986 (TAIF), H.F. Yen 790, Apr. 5, 1987 (TNM), 7641, Feb. 26, 1993 (TNM), T.T. Chen 11265, May 21, 2001 (TAIF), P.F. Lu 8485, Aug. 9, 2004 (TAIF), C.F. Chen 4683, Jan. 29, 2013 (TAIF), S.W. Chung 7258, Aug. 8, 2004 (TAIF), 8425, Nov. 12, 2006 (TAIF), M.J. Jung 5037, Apr. 27, 2010 (TAIF), T.C. Hsu 2616, Mar. 28, 2010 (TAIF), C.H. Hong 387, Jul. 19, 2013 (TNM), 26057, Oct. 12, 2013 (TAIF), Y.C. Lu et al. 94, May 12, 2014 (TAIF), W.Y. Wang 2081, May 12, 2014 (TAIF), T.Y.A. Yang et al. 8111, Apr. 24, 1997 (TNM), 10545, Jun. 28, 1998 (TNM), 16258, Apr. 5, 2004 (TNM), 17280, Mar. 27, 2005 (TNM), 22976, May 6, 2011 (TNM), 23808, Jan. 29, 2013 (TNM).

## 6. *Peperomia tetraphylla* Hook. & Arn., Bot. Beechey Voy. 2: 97, 1832.

*Piper tetraphyllum* G. Forst., Fl. Ins. Austr. 5: 5. 1786.

*Peperomia reflexa* (L. f.) A. Dietr., Sp. Pl. 180. 1831.

*Piper reflexum* L. f., Suppl. Pl. 91. 1781.

**Specimens examined: Taiwan: New Taipei City**, Sanxia Dist., Mt. Peichatienshan, H.L. Chiang, 256, Jan. 23, 2000 (TAIF); Wulai Dist., Hapen, C.W. Lin s.n., Sep. 24, 1987 (TAIF). **Taoyuan City**, Fuxing Dist., Casehnan, H.L. Chiang s.n., Jul. 25, 1974 (TAIF), Howei Giants Group, S.W. Chung et al. 6676, Sep. 8, 2003 (TAIF), S.H. Liu et al. 811, Sep. 8, 2003 (TAIF), Mt. Najieshan, C.H. Chen et al. 8912, Oct. 16, 2008 (TNM). **Hsinchu County**, Jianshi Township, Chenghsipao, Y.C. Lu 96, Jun. 22, 2013 (TNM), Peitelaman Giant Trees, S.W. Chung 9949, Jul. 28, 2009 (TAIF), Hsinkuang Tribe, Y.C. Lu 95, Jun. 21, 2013 (TNM), Ssumakussu, S.C. Wu 1141, Dec. 22, 1996 (TAIF), K.C. Yang & J.K. Lin 5222, Aug. 19, 1998 (TNM); Wufeng Township, Mt. Ekungchishan, C.M. Wang 12707, Jan. 13, 2009 (TNM), Kuanwu, L.W. Chang 101, Jan. 16, 2000 (TAIF), S.W. Chung 4999, 5000, 5012, 5013, Jan. 16, 2002 (TAIF), C.H. Yu 805, Aug. 19, 2003 (TAI), Mt. Shihlutashan, S.T. Chiu 8179, Jul. 20, 2004 (TNM), Talu Forest Trail, S.W. Chung 2383, May 16, 2000 (TAIF), J.C. Wang & K.C. Yang 4900, Jul. 26, 1987 (TAI). **Miaoli County**, Nanchuang Township, Mt. Chialishan, C.M. Wang et al. 8626, Feb. 25, 2006 (TNM), Mt. Hakannishan, S.W. Chung & J.H. Lii 5930, Sep. 16, 2002 (TAIF); Taian Township, Hsiangppi, S.W. Chung & S.K. Yu 8238, Nov. 20, 2005 (TAIF), Stream Matalahsi, W.L. Chiou & T.T. Lin 11572, Aug. 1, 1984 (TAIF), Mt. Tapachienshan entrance, C.F. Hsieh 1340, Aug. 12, 1972 (TAI), Chia-C. Hsu 642, Nov. 2, 1997 (TAIF), Mt. Tungshiishuhsan, H.Y. Chen & S.C. Wu 5, Apr. 5, 1997 (TAIF), C.M. Wang & H.M. Lin 2465, Nov. 2, 1996 (TAIF), T.Y.A. Yang 2303, Aug. 10, 1985 (TNM). **Taichung City**, Heping Dist., C.I. Huang et al. 175, Nov. 7, 1998 (TAIF), Mt. Anmashan, C.M. Kuo 7757, Feb. 14, 1977 (TAI), J.C. Wang et al. 4931, Aug. 5, 1987 (TAI), Mt. Anmashan Shelter, C.M. Wang 1102, Jul. 27, 1994 (TNM), Mt. Dasyueshan, C.M. Wang 1280, Oct. 15, 1994 (TNM), J.C. Wang et al. 12077, Aug. 6, 2003 (TNM), 39.1 km of the No.200 Dasyueshan Forest Road, C.M. Wang 4745, Feb. 28, 2001 (TNM), J.C. Wang et al. 12077, Aug. 6, 2003 (TAIF), 27.2 km, C.M. Wang 5237, Aug. 15, 2001 (TNM), 28-29 Km, C.H. Chen 5873, Sep. 7, 2004 (TNM), 31Km, C.H. Chen 8571, Mar. 11, 2008 (TNM), C.M. Wang 8699, Mar. 29, 2006 (TNM), Henglingshan National Forest, T.Y.A. Yang et al. 21157, Nov. 27, 2008 (TNM), Mt. Hsuehshan entrance, C.H. Chen & C.A. Chiu 10228, Sep. 24, 2010 (TNM), Stream Hsuehshankenghsi, S.T. Chiu 6576, Nov. 29, 2000 (TNM), Shaolia Trail of Mt. Hsiaoahsuehshan, C.M. Wang & C.Y. Li 14536, Nov. 3, 2011 (TNM), Lishan, S.T. Chiu et al. 3304, Mar. 20, 1996 (TNM), C.C. Hsu 3844, Aug. 23, 1967 (TAI), M.F. Loa 36, Sep. 27, 1996 (TAIF), Mt. Paikutashan, C.I. Huang et al. 173, 175, Nov. 7, 1998 (TNM), Stream Pihuhsi, Y.S. Liang et al. 658, Dec. 10, 2005 (TNM), Mt. Sanchiaoshan, H.Y. Shen et al. 248, Oct. 25, 1994 (TNM), Shaolia, S.W. Chung 3530, Dec. 27, 2000 (TAIF), C.M. Wang 553, Dec. 19, 1993 (TNM), Stream Ssuchiehlanhsi, S.W. Chung 7405, Nov. 4, 2004 (TAIF), Shengkuang, C.M. Kuo 3911, Aug. 31, 1973 (TAI), Mt. Taushan-Wuling farm, J.C. Wang et al. 4101, Oct. 11, 1986 (TAI), Wuling farm, Y.P. Cheng 3111, Jul. 4, 2000 (TAIF), Mt. Wuwoweishan Trail, Y.C. Lu et al. 78, Nov. 9, 2013 (TNM), 108, Dec. 31, 2014 (TNM), Mt. Yuantsuishan, Chia-C. Hsu s.n., Feb. 10, 2007 (TAIF), Mts. Yuantsuishan-Shaolaishan, S.T. Chiu 4919, Sep. 8, 1998 (TNM); Abeixian Central Mountains, T. Kawakami & S. Sasaki s.n., Jan. 4, 1911 (TAIF). **Nantou County**, Lugu Township, Chitou, T.Y.A. Yang & T.S. Wang 3153, Sep. 14, 1986 (TNM), Mt. Fenghuangshan, C.C. Hsu 6163, Sep. 3, 1969 (TAI); Renai Township, Aowanta, C.H. Chen 10326, Oct. 27, 2010 (TNM), Juiyehsi Nature Reserve, M.F. Kuo 1852, Sep. 25, 1993 (PPI), Meifeng, S.Y. Lu 18148, Dec. 24, 1985 (TAIF), M.J. Lin 416, Aug. 13, 1996 (TAIF), Chia-C. Hsu 511, Mar. 10, 1997 (TAIF), S.T. Chiu 4366, Mar. 3, 1998 (TNM), H.F. Yen 24337, Aug. 7, 2002 (TNM), C.M. Wang 14092, Nov. 9, 2010 (TNM), Mt. Peitungyenshan, H.F. Yen 7266, Dec. 16, 1992 (TNM), Y.C. Lu 70, Nov. 1, 2013 (TNM), Tsuifeng-Juiyehsi, S.T. Chiu 5446, Aug. 30, 1999 (TNM), Tsuifeng-Meifeng, W.S. Tang 674, Aug. 16, 1984 (TAI), K. Yonekura 17732, Aug. 16, 1984 (TAI), Tunyuan-Yunhai, S.Y. Lu 19714, Aug. 11, 1986 (TAIF), Prov. #14A Hwy 13-14 km, T.Y.A. Yang 3214, Nov. 28, 1986 (TNM), Yunhai Station, C.M. Wang & C.H. Chen 12791, Mar. 3, 2009 (TNM), T.Y.A. Yang et al. 16458, May 8, 2004 (TNM); Xinyi Township, Mt. Hsiluanshan, T.T. He 343, Feb. 2, 2008 (TAIF), Lele-Kuankao, S.F. Huang et al. 5254, Jul. 7, 1993 (TAI), Patungkuang-Tungpu, Simada-Hidetaro 921, Nov. 1, 1935 (TAI), Tungpu, Y.C. Jeng 2456, Nov. 18, 1977 (TAI), Tungpu-Tungpu Tunnel, P.F. Lu 16873, Aug. 30, 2008 (TAIF). **Chiayi County**, Alishan Township, Mt. Alishan, B. Hayata & S. Sasaki s.n., Jan. 23, 1912. (TAIF), C.S. Kuoh 80387, Aug. 12, 1979 (TAI), S.F. Huang 2512, Mar. 21, 1985 (TAI), S.F. Huang 5020, Mar. 11, 1993 (TAI), Shuikuan Road, C.M. Wang 5845, Aug. 1, 2002 (TNM), Paiyun Shelter, C.C. Hsu 9238, Nov. 17, 1968 (TAI), Hsinmei-Tsaoshan, H.F. Yen 4973, Mar. 17, 1991 (TNM); Zhuqi Township, Fenchihu, T.C. Huang & S.F. Huang 14003, Mar. 31, 1989 (TAI), Shihjhuo Village, H.F. Yen 2921, Jul. 28, 1988 (TNM). **Kaohsiung City**, Liugui Dist., Liukuei, M.T. Kao 79, Dec. 18, 1961 (TAI); Sanlin Dist., Sanlin, S. Sasaki s.n., Oct. 25, 1933 (TAI); Taoyuan Dist., Chungchihkuan, S.Z. Yang 25531, Sep. 10, 2000 (TAIF), 25606, Aug. 25, 2000, 26504, Apr. 6, 2002 (PPI), Chungchihkuan-Tienchih, S.M. Ku 335, Dec. 26, 1999 (PPI, TNM), Stoneshan Logging Trail, G.P. Hsieh 619, Jul. 22, 2002 (PPI), Tienchih, T.C. Huang & K.C. Yang 1866, Nov. 8, 1985 (TAI), T.C. Huang et al. 13867, Oct. 8, 1988 (TAI), Tienchih-Mt. Takuanshan, S.T. Chiu, 1265, 1266, Dec. 4, 1992 (TNM), Tienchih-Likuan, T.T. Chen et al. 9952, Dec. 11, 1999 (TAIF). **Pingtung County**, Chunri Township, Mt. Shihkechienshan, P.H. Chen 91, Oct. 10, 2012 (PPI); Fangliao Township, Chinshuiyin, C.W. Lin 20747, Jan. 20, 1987 (TAIF), S.Y. Lu 20758, Jan. 19, 1987 (TAIF); Laiyi Township, Mt. Laisheshan, S.H. Huang 42376, Dec. 14, 2003 (PPI), Mt. Wuweishan,



*E. Matuda s.n.*, Dec. 31, 1920 (TAI); Shizi Township, Mt. Chachayehlaishan, *C.F. Chen* 997, Dec. 12, 2004 (PPI); Taiwu Township, Kuaiku Shelter, Kuaiku Giant Tree, *C.S. Kuoh* 13601, Jan. 23, 1988 (TNM), *S.Z. Yang* 23450, 23451, Feb. 7, 1990 (PPI), *J.C. Wang et al.* 9130, Apr. 2, 1994 (TNM), *H.F. Yen* 10697, Oct. 18, 1995 (TNM), *S.M. Ku* 749, Oct. 8, 2000 (PPI), *C.M. Wang* 9309, Oct. 8, 2006 (TNM), Mt. Peitawushan, *S. Suzuki* 6846, Dec. 26, 1930 (TAI), *T.C. Huang et al.* 13602, Jul. 16, 1988 (TAI), *Y.H. Yu s.n.*, Aug. 21, 1995 (TAIF), *D.W. Liu* 168, Nov. 30, 1997 (PPI), *G.F. Kuo* 818, Oct. 10, 1998 (TAIF); Wutai Township, Chihpen Lodge-Hsiaokueihu, *S.Z. Yang* 11318, Nov. 26, 1989 (PPI), Mt. Chihpenchushan, *S.Z. Yang & C.G. Lin* 11777, Mar. 9, 1990 (PPI), Lake Hsiaokueihu, *S.Z. Yang* 7224, Oct. 31, 1988 (PPI), Mt. Linpalapalashan, *H.L. Chiang s.n.*, Oct. 8, 1986 (TAIF), Wutai, *H.F. Yen* 31013, Jan. 31, 2005 (TNM), Wutai Township Lodge, *S.Z. Yang & C.G. Lin* 37960, Oct. 8, 1989 (PPI), Wutai Firest Lodge, *S.C. Hsiao* 566, Mar. 9, 1988 (TNM), Mt. Wutoushan, *S.Z. Yang* 26633, Nov. 14, 1992 (PPI). **Yilan County**, Chienching, *S. Suzuki* 10804, Aug. 29, 1932 (TAI), Datong Township, Mingchih, *P.F. Lu* 16808, Aug. 16, 2008 (TAIF). **Hualien County**, Jian Township, Mt. Chungyangchienshan, *T. Suzuki* 16176, Jul. 27, 1936 (TAI); Wanrong Township, Wanjung Logging Trail, *S.W. Chung* 8472, Jan. 10, 2007 (TAIF); Xiulin Township, Mt. Chuilushan, *T.T. He* 121, Mar. 30, 2007 (TAIF), Mt. Hsinchengshan, *C.K. Yang* 870, Dec. 22, 2004 (TNM), Yenhai Forest Road-Sanduanyi, *W.L. Chiou & T.T. Lin s.n.*, Apr. 2, 1983 (TAIF); Zhuoxi Township, Juisui Forest Road 15-28 K, *C.M. Wang et al.* 11437, Nov. 19, 2007 (TNM). **Taitung County**, Beinan Township, Lichia Logging Trail, *S.W. Chung* 9329, Jan. 13, 2009 (TAIF); Daren Township, Taiwan Amentotaxus Nature Reserve, *C.M. Wang* 652, Nov. 4, 1993 (TNM), *S.Z. Yang* 30588, May 7, 1995 (TNM); Donghe Township, Mt. Tulanshan Alley, *W.Y. Wang* 39, Feb. 23, 2007 (TAIF); Haiduan Township, Tienchih-Yakou, *K.C. Yang et al. s.n.*, Dec. 4, 1992 (TAI); Liyuan-Hsiangyang, *S.W. Chung & T.Y. Hsieh* 7348, Oct. 7, 2004 (TAIF); Taimali Township, Taimali, *Y.P. Cheng* 3545, Feb. 15, 2001 (TAIF); Yenping Township, Yenping Forest Road, *Y.J. Lin* 117, Sep. 30, 2006 (PPI).