

Flora of China Illustrations



Pittosporaceae through Connaraceae

9

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- Connaraceae*: Lu Lingdi (陆玲娣 Lu Ling-ti); Nicholas J. Turland

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PREFACE

This publication is the ninth in a series of 25 volumes of the *Flora of China Illustrations*. It accompanies the *Flora of China* (FOC) Volume 9, which was published in 2003 and treated 82 genera with 1,083 species in six families. This volume of illustrations includes 187 figures representing a total of 506 species in the Pittosporaceae (海桐花科 hai tong hua ke, 19 species), Hamamelidaceae (金缕梅科 jin lu mei ke, 18 species), Eucommiaceae (杜仲科 du zhong ke, 1 species), Platanaceae (悬铃木科 xuan ling mu ke, 1 species), Rosaceae (蔷薇科 qiang wei ke, 458 species), and Connaraceae (牛栓藤科 niu shuan teng ke, 9 species).

The illustrations are arranged according to the sequence of families, genera, and species in FOC Volume 9, except when a figure includes more than one taxon, when the sequence is determined by the first species listed in the compound figure. Species treated in *Flora Reipublicae Popularis Sinicae* (FRPS) but not in FOC are listed at the end of the genus to which they belong, and genera treated in FRPS but not in FOC are given at the end of the family. Some highly variable species are illustrated more than once because they were treated as independent taxa in FRPS but were reduced to synonymy in FOC.

Names of recognized taxa are in boldface, and author names follow FOC. Each recognized taxon is followed by its Chinese name and the pinyin transliteration of that name. Page numbers for the descriptions in FOC and for the figure number, volume number, and year of publication of the FRPS volume, as well as names of artists, are listed in parentheses at the end of each caption. For compound figures illustrating several taxa, the range of FOC page numbers is given instead of listing the page number for each illustrated taxon.

Indexes to figure numbers are given for the Chinese names, their pinyin transliterations, and the scientific names.

Wu Zhengyi (吴征镒)

Peter H. Raven

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Special thanks are due to Cai Shuqin (蔡淑琴) for compiling the original illustrations for this volume. The following individuals have reviewed portions of this volume: Crinan Alexander, Bruce Bartholomew, Anthony R. Brach, David E. Boufford, Hiroshi Ikeda, Hideaki Ohba, Kenneth R. Robertson, Steven A. Spongberg, Gu Cuizhi (谷粹芝 Ku Tsue-chih), Lu Lingdi (陆玲娣 Lu Ling-ti), Zhang Hongda (张宏达), and Zhang Zhiyun (张志耘).

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Figure 1. 1–3. *Pittosporum crispulum* Gagnepain, 皱叶海桐 *zhou ye hai tong*. —1. Fruiting branch. —2. Flower. —3. Capsule. 4, 5. *P. pauciflorum* Hooker & Arnott var. *pauciflorum*, 少花海桐 (原变种) *shao hua hai tong (yuan bian zhong)*. —4. Fruiting branch. —5. Capsule. 6, 7. *P. perglabratum* H. T. Chang & S. Z. Yan, 全秃海桐 *quan tu hai tong*. —6. Fruiting branch. —7. Flower. 8–10. *P. omeiense* H. T. Chang & S. Z. Yan, 峨眉海桐 *e mei hai tong*. —8. Fruiting branch. —9. Flower. —10. Capsule opened. (FOC 3, 5, 6, 10; FRPS 35(2): 21, pl. 4. 1979. —冯钟元 Feng Zhongyuan; redrawn by 蔡淑琴 Cai Shuqin).



Figure 2. 1, 2. *Pittosporum truncatum* Pritzl, 崖花子 ya hua zi. —1. Fruiting branch. —2. Capsule. 3–5. *P. pauciflorum* Hooker & Arnott var. *pauciflorum*, 少花海桐 (原变种) shao hua hai tong (yuan bian zhong). —3. Fruiting branch. —4. Flower. —5. Capsule. 6–8. *P. tubiflorum* H. T. Chang & S. Z. Yan, 管花海桐 guan hua hai tong. —6. Flowering branch. —7. Opened corolla. —8. Capsule. (FOC 5, 12, 13; FRPS 35(2): 25, pl. 5. 1979. —廖沃根 Liao Wogen; redrawn by 蔡淑琴 Cai Shuqin).



Figure 3. 1. *Pittosporum pulchrum* Gagnepain, 秀丽海桐 xiu li hai tong. —1. Fruiting branch. 2. *P. planilobum* H. T. Chang & S. Z. Yan, 扁片海桐 bian pian hai tong. —2. Fruiting branch. 3–8. *P. fulvipilosum* H. T. Chang & S. Z. Yan, 褐毛海桐 he mao hai tong. —3. Fruiting branch. —4. Flower. —5. Petal. —6. Stamen abaxial view. —7. Stamen adaxial view. —8. Pistil. (FOC 10, 12; FRPS 35(2): 20, pl. 3. 1979. —冯钟元 Feng Zhongyuan; redrawn by 蔡淑琴 Cai Shuqin).



Figure 4. 1. *Pittosporum daphniphyloides* Hayata var. *adaphniphyloides* (Hu & F. T. Wang) W. T. Wang, 大叶海桐 da ye hai tong. —1. Fruiting branch. 2. *P. podocarpum* Gagnepain var. *podocarpum*, 柄果海桐 (原变种) bing guo hai tong (yuan bian zhong). —2. Fruiting branch. 3. *P. paniculiferum* H. T. Chang & S. Z. Yan, 圆锥海桐 yuan zhui hai tong. —3. Fruiting branch. (FOC 7, 15, 16; FRPS 35(2): 13, pl. 2. 1979. — 冯钟元 Feng Zhongyuan; redrawn by 蔡淑琴 Cai Shuqin).



Figure 5. 1. *Pittosporum brevicalyx* (Oliver) Gagnepain, 短萼海桐 *duan e hai tong*. —1. Fruiting branch. 2. *P. illicioides* Makino, 海金子 *hai jin zi*. —2. Fruiting branch. 3. *P. glabratum* Lindley var. *glabratum*, 光叶海桐 (原变种) *guang ye hai tong (yuan bian zhong)*. —3. Fruiting branch. 4–7. *P. tobira* (Thunberg) W. T. Aiton var. *tobira*, 海桐 (原变种) *hai tong (yuan bian zhong)*. —4. Fruiting branch. —5. Flower. —6. Stamen. —7. Pistil. (FOC 4, 6, 8, 15; FRPS 35(2): 7, pl. 1. 1979. —冯钟元 Feng Zhongyuan; redrawn by 蔡淑琴 Cai Shuqin).



Figure 6. 1–3. *Pittosporum pentandrum* (Blanco) Merrill var. *formosanum* (Hayata) Z. Y. Zhang & Turland, 台琼海桐 tai qiong hai tong. —1. Fruiting branch. —2. Flower. —3. Flower longitudinal section showing stamens, pistil and longitudinal section of ovary. 4, 5. *P. balansae* Aug. de Candolle var. *balansae*, 聚花海桐 (原变种) ju hua hai tong (yuan bian zhong). —4. Fruiting branch. —5. Flower longitudinal section showing stamens, pistil and longitudinal section of ovary. 6, 7. *P. kunmingense* H. T. Chang & S. Z. Yan, 昆明海桐 kun ming hai tong. —6. Flowering branch. —7. Flower longitudinal section showing stamens, pistil and longitudinal section of ovary. (FOC 11, 13, 17; FRPS 35(2): 27, pl. 6. 1979. —廖沃根 Liao Wogen; redrawn by 蔡淑琴 Cai Shuqin).

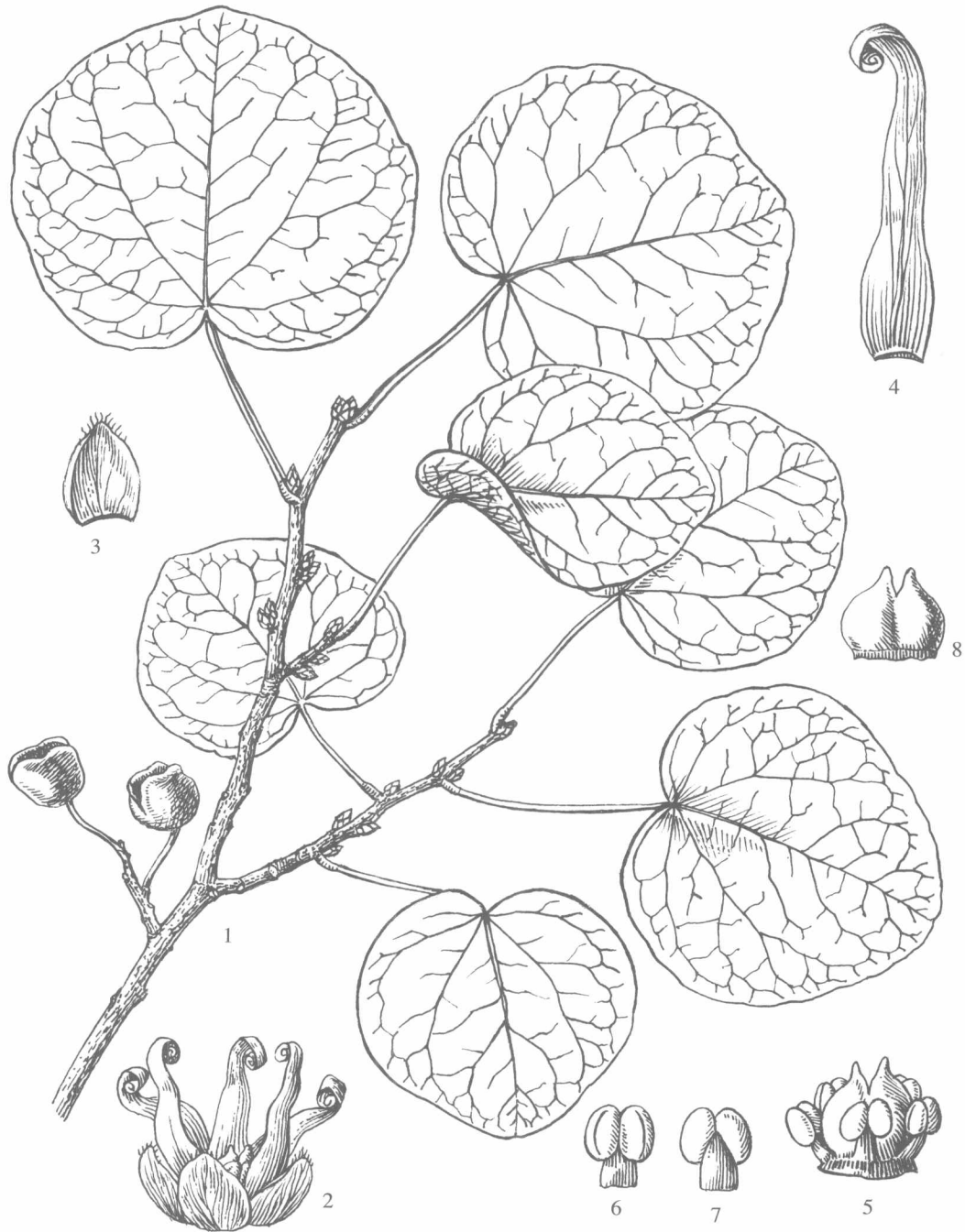


Figure 7. 1–8. *Disanthus cercidifolius* Maximowicz subsp. *longipes* (H. T. Chang) K. Y. Pan, 长柄双花木 *chang bing shuang hua mu*. —1. Fruiting branch. —2. Flower. —3. Sepal. —4. Petal. —5. Stamens and pistil. —6. Stamen adaxial view. —7. Stamen abaxial view. —8. Pistil. (FOC 19; FRPS 35(2): 41, pl. 7. 1979. — 冯钟元 Feng Zhongyuan; redrawn by 蔡淑琴 Cai Shuqin).

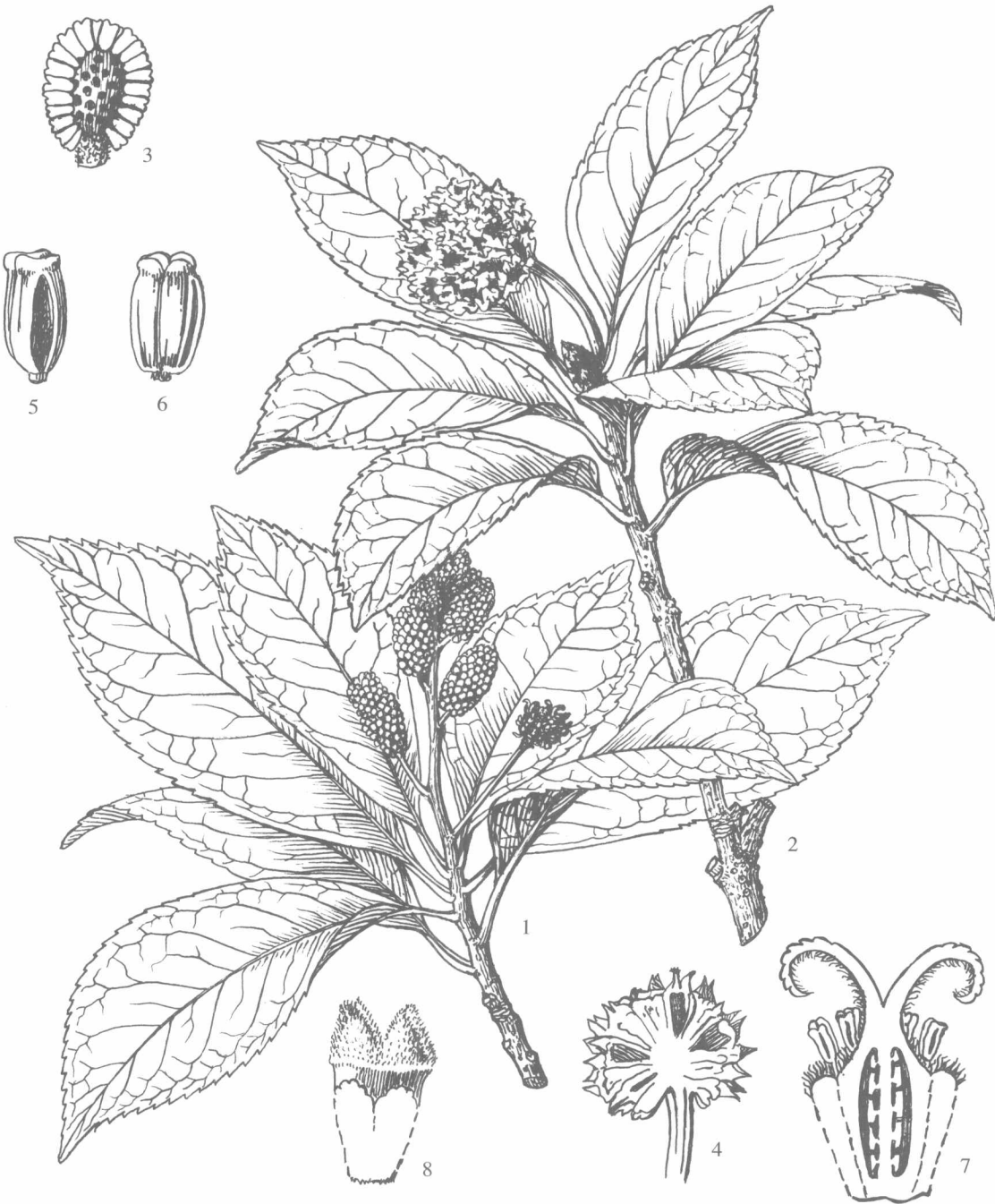


Figure 8. 1–8. *Altingia chinensis* (Champion) Oliver ex Hance, 草树 tan shu. —1. Flowering branch. —2. Fruiting branch. —3. Male inflorescence longitudinal section. —4. Female inflorescence longitudinal section. —5, 6. Male flowers. —7. Female flower longitudinal section. —8. Capsule. (FOC 21; FRPS 35(2): 65, pl. 14. 1979. — 冯钟元 Feng Zhongyuan; redrawn by 蔡淑琴 Cai Shuqin).