62．MELISSA Linnaeus，Sp．Pl．2：592． 1753.
蜜蜂花属 mi feng hua shu
Herbs perennial．Leaves petiolate，ovate，margin serrate．Verticillasters axillary；bracts leaflike，smaller than leaves； bracteoles minute．Calyx campanulate，pendulous after anthesis， 13 －veined，$\pm$ hairy， 2 －lipped，upper lip shallowly 3 －toothed， lower lip strongly 2 －toothed．Corolla white，yellow－white，yellow，or reddish，2－lipped；tube included or slightly exserted，slightly dilated at throat；upper lip straight，apex emarginate or 2－lobed；lower lip spreading，3－lobed，with middle lobe entire or emarginate，wider than lateral lobes．Stamens 4，anterior 2 longer，clinging to upper corolla lip，included or slightly exserted； filaments arcuate；anther cells 2，initially divergent at nearly a right angle，becoming divaricate．Style apex equally 2 －cleft；lobes subulate，revolute．Nutlets ovoid，smooth．

About four species：Asia，Europe；three indigenous and one cultivated in China．
1a．Calyx with subequal lips
1b．Calyx with lower lip longer．
2a．Calyx blue－purple，inside glabrous ．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．2．M．flava
2b．Calyx greenish，inside hairy at least on upper lip inside．
3a．Corolla yellow－white；inside of calyx villous only on upper lip，upper lip 3－toothed，acute，lateral teeth close to middle tooth

3．M．yunnanensis
3b．Corolla cream－white；inside of calyx apex villous，upper lip short 3－denticulate or $\pm$ undulate，teeth straight， evenly spaced 4．M．officinalis

1．Melissa axillaris（Bentham）R．Bakhuizen，Fl．Jav．2： 629. 1965.

蜜蜂花 mi feng hua
Geniosporum axillare Bentham，Pl．Asiat．Rar．2： 18. 1830；Calaminatha cavaleriei H．Léveillé \＆Vaniot；M． hirsuta Blume；M．parviflora Bentham；M．parviflora var． purpurea Hayata．

Stems $\pm$ erect，branched， $60-100 \mathrm{~cm}$ ，pubescent．Petiole $0.2-2.5 \mathrm{~cm}$ ；leaf blade ovate， $1.2-6 \times 0.9-3 \mathrm{~cm}$ ，herbaceous， purplish along midrib，sparsely pubescent to subglabrous， base subcordate to cuneate，margin serrate－crenate，apex acute or short acuminate to rounded．Verticillasters widely spaced； bracteoles sublinear，ciliate．Pedicel ca． 2 mm ．Calyx 6－8 mm， horizontally projected，villous outside，glabrous inside，teeth of upper lip acute；lower lip almost as long as upper lip，teeth lanceolate．Corolla white or reddish，ca． 1 cm ，pubescent，tube slightly exserted，upper lip emarginate，lower lip spreading． Anterior stamens included．Nutlets adaxially ribbed．Fl．and fr． Jun－Nov．

Hills，valleys；600－2800 m．Guangdong，Guangxi，Guizhou， Hubei，Hunan，Jiangxi，Shaanxi，Sichuan，Taiwan，Xizang，Yunnan ［Bhutan，Cambodia，India（Sikkim），Indonesia，Laos，Malaysia， Myanmar，Nepal，Thailand，Vietnam］

Used medicinally for dysentery and snake bites；also used as an essence in hair oil．

2．Melissa flava Bentham ex Wallich，Pl．Asiat．Rar．1： 65. 1830.

## 黄蜜蜂花 huang mi feng hua

Stems ca． 2.5 m ，pubescent at apex，glabrescent at base． Petiole $1-2.8 \mathrm{~cm}$ ；leaf blade ovate，（2－）5－7×1－3．5 cm， membranous，pubescent，base rounded to obtuse，margin coarsely serrate to serrate－crenate，apex acute．Verticillasters 2－10－flowered，widely spaced；upper bracts reduced； bracteoles linear to obovate－lanceolate， $3-6 \times 1-2.5 \mathrm{~mm}$ ，ciliate． Pedicel $3-7 \mathrm{~mm}$ ．Calyx blue－purple，broadly campanulate，ca． 9 mm in flower，veins villous，inside glabrous；upper lip reflexed，ca． $4 \times 4 \mathrm{~mm}$ ，lateral teeth $\pm$ villous on outer margin； middle tooth erect，broadly triangular，apex acute；lower lip slightly longer，ca． 3 mm wide， 2 －toothed to more than $1 / 2$ its length，with lanceolate acuminate teeth；fruiting calyx dilated，
to 1.3 cm ，scarious，conspicuously netted．Corolla yellowish， 1.1 cm ，villous outside；tube pubescent，gradually dilated beyond middle；upper lip ca． $4 \times 3 \mathrm{~mm}$ ，2－lobed；lower lip as long as upper，to 6 mm wide，lobes circular．Stamens included． Immature nutlets brown，ca． 1 mm ，corrugate．Fl．Jul－Aug．

Hillside forests；1800－2800 m．Xizang［Bhutan，India，Nepal］．
3．Melissa yunnanensis C．Y．Wu \＆Y．C．Huang，Acta Phytotax．Sin．10：228． 1965.

## 云南蜜蜂花 yun nan mi feng hua

Stems erect，ca． 1 m ，few branched，finely pubescent． Petiole $0.5-2 \mathrm{~cm}$ ；leaf blade ovate to lanceolate－ovate， $2-$ $5 \times 0.8-3 \mathrm{~cm}, \pm$ membranous，adaxially puberulent or subglabrous，abaxially pubescent，base obtuse to cordate， margin irregularly serrate，apex acute．Verticillasters 2－16－ flowered，numerous，widely spaced；bracts leaflike；bracteoles sublinear，shorter than pedicels，ciliate．Pedicel ca． 3 mm ． Calyx campanulate，dilated after anthesis， $8-12 \mathrm{~mm}$ ，villous， lateral teeth of upper lip close to middle tooth，teeth of lower lip lanceolate．Corolla yellow－white，to 1.5 cm ，pubescent； middle lobe of lower lip rounded，slightly overlapping circular lateral lobes．Stamens included．Nutlets oblong－ovoid． Fl．Jul－Aug，fr．Sep．
－Forests，forest margins；2100－3200 m．Xizang，Yunnan．
4．Melissa officinalis Linnaeus，Sp．Pl．2：592． 1753.
香蜂花 xiang feng hua
Stems $\pm$ erect，pyramidally much branched，pubescent， base glabrescent．Petiole slender， $0.5-2(-4) \mathrm{cm}$ ；leaf blade ovate， $1-5(-6.5) \times 0.8-4(-5) \mathrm{cm}, \pm$ membranous or herbaceous， adaxially villous，abaxially villous along veins，base rounded to subcordate rarely obtuse or acute，margin serrate－crenate to obtusely serrate，apex acute to obtuse．Verticillasters 2－14－ flowered，short pedunculate；bracts leaflike，much smaller than leaves，villous，ciliate．Pedicel ca． 4 mm ．Calyx campanulate，ca． 8 mm ，villous outside，villous inside apically； upper lip short 3 －denticulate or $\pm$ undulate，teeth with short erect apices；lower lip slightly longer than upper，teeth narrowly triangular，apex spinescent．Corolla creamy white，
$1.2-1.3 \mathrm{~cm}$, villous outside; upper lip emarginate; middle lobe of lower lip obliquely spreading, rounded. Fl. Jun-Aug.

Cultivated in China [Kyrgyzstan, Russia, Tajikistan, Turkmenistan; Africa, SW Asia, Europe].

Used for flavoring salads, soups, and liqueurs. Oil employed in perfumery; commonly known as balm tea; a home remedy sometimes used for headaches and toothaches.

