

Table S3-1 Taxonomic comparison between the *Flora Reipublicae Popularis Sinicae* (FRPS) and the *Flora of China* (FOC).

Subgenus / Section	FRPS	FOC	Comparison between FOC and FRPS
Subgen. <i>Hulthemia</i>	1 species	1 species	No change <b>1 species transferred out:</b> <i>R. transmorrisonensis</i> transferred to Sect. <i>Synstylae</i>
Sect. <i>Pimpinellifoliae</i>	18 species, 2 varieties, 8 forms, 1 species noted in discussion	17 species, 3 varieties, 8 forms	<b>1 species newly recorded:</b> <i>R. zhongdianensis</i> <b>1 form newly recorded:</b> <i>R. sikangensis</i> f. <i>pilosa</i> <b>1 species excluded:</b> <i>R. foetida</i> <b>1 form adjusted:</b> <i>R. foetida</i> f. <i>persiana</i> is treated as a variety, <i>R. foetida</i> var. <i>persiana</i> <b>5 species newly recorded:</b> <i>R. fargesiana</i> , <i>R. pinnatisepala</i> , <i>R. sinobiflora</i> , <i>R. hezhangensis</i> , <i>R. baiyushanensis</i>
Sect. <i>Cinnamomeae</i>	31 species, 15 varieties, 4 forms, 4 species noted in discussion	36 species, 16 varieties, 2 forms	<b>1 variety newly recorded:</b> <i>R. sweginzowii</i> var. <i>stevensii</i> <b>4 forms not recorded:</b> <i>R. rugosa</i> f. <i>rosea</i> , <i>R. rugosa</i> f. <i>alba</i> , <i>R. rugosa</i> f. <i>plena</i> and <i>Rosa rugosa</i> f. <i>albo-plena</i> <b>2 forms newly recorded:</b> <i>R. pinnatisepala</i> f. <i>glandulosa</i> , <i>R. forrestiana</i> f. <i>glandulosa</i>
Sect. <i>Microphyllae</i>	3 species, 1 form	3 species, 1 form	No change
Sect. <i>Bracteatae</i>	1 species, 1 variety	1 species, 1 variety	No change
Sect. <i>Laevigatae</i>	1 species, 1 form	1 species, 1 form	No change
Sect. <i>Banksianae</i>	2 species, 2 varieties, 2 forms, 1 hybrid	2 species, 2 varieties, 2 form	<b>1 hybrid not recorded:</b> <i>R. fortuneana</i> <b>1 species transferred in:</b> <i>R. transmorrisonensis</i> moved from Sect. <i>Pimpinellifoliae</i>
Sect. <i>Synstylae</i>	18 species, 10 varieties, 1 form, 3 species noted in discussion	29 species, 11 varieties, 3 forms	<b>10 species newly recorded:</b> <i>R. langyashanica</i> , <i>R. daishanensis</i> , <i>R. shangchengensis</i> , <i>R. kunmingensis</i> , <i>R. miyiensis</i> , <i>R. ludingensis</i> , <i>R. deqenensis</i> , <i>R. derongensis</i> , <i>R. taiwanensis</i> and <i>R. pricei</i> <b>1 variety newly recorded:</b> <i>R. luciae</i> var. <i>rosea</i> <b>2 forms newly recorded:</b> <i>R. floribunda</i> f. <i>duplicata</i> , <i>R. floribunda</i> f. <i>glandulifera</i>
Sect. <i>Chinenses</i>	3 species, 5 varieties	3 species, 5 varieties	No change
Sect. <i>Gallicae</i>	4 species	0	<b>4 species not recorded:</b> <i>R. gallica</i> , <i>R. gallica</i> var. <i>centifolia</i> , <i>R. gallica</i> var. <i>damascena</i> , and <i>R. × alba</i>
Total	82 species, 35 varieties, 17 forms, 1 hybrid, 135 taxa of <i>Rosa</i> in total	93 species, 38 varieties, 17 forms, 148 taxa of <i>Rosa</i> in total	<b>Not recorded:</b> 5 species, 4 forms, 1 hybrid. <b>Newly recorded:</b> 14 species, 2 varieties, 5 forms. <b>Adjustment:</b> 1 form changed to variety.

Table S3-2 Taxonomic comparison between the *Flora of China* (FOC) and *Genus Rosa L. in China* (GRLIC).

Subgenus / Section	FOC	GRLIC	Comparison between FOC and GRLIC
Subgen. Hulthemia	1 species	1 species	No change <b>4 species transferred out:</b> <i>R. tsinglingensis</i> , <i>R. koreana</i> , <i>R. farreri</i> , and <i>R. graciliflora</i> are transferred to Sect. <i>Cinnamomeae</i> <b>1 variety transferred out:</b> <i>R. koreana</i> var. <i>glandulosa</i> is transferred to Sect. <i>Cinnamomeae</i>
Sect. <i>Pimpinellifoliae</i>	17 species, 3 varieties, 8 forms	13 species, 2 varieties, 9 forms, 1 cultivars	<b>1 species adjusted:</b> <i>R. spinosissima</i> var. <i>kokanica</i> is reduced to a variety of <i>R. spinosissima</i> var. <i>spinosissima</i> <b>1 form adjusted:</b> <i>R. foetida</i> 'Persiana' is reclassified from a botanical form to a cultivar. <b>1 species newly recorded:</b> <i>R. foetida</i> <b>1 form newly recorded:</b> <i>R. hugonis</i> f. <i>pateracantha</i> <b>5 species transferred in:</b> <i>R. tsinglingensis</i> , <i>R. koreana</i> , <i>R. farreri</i> , and <i>R. graciliflora</i> are transferred from Sect. <i>Pimpinellifoliae</i> ; <i>R. praelucens</i> is transferred from Sect. <i>Microphyllae</i> <b>1 variety transferred in:</b> <i>R. koreana</i> var. <i>glandulosa</i> <b>4 species synonymized:</b> <i>R. sinobiflora</i> is treated as a synonym of <i>R. webbiana</i> ; <i>R. banksiopsis</i> , <i>R. farreri</i> , and <i>R. graciliflora</i> are treated as synonyms of <i>R. sertata</i> . <b>2 species transferred out:</b> <i>R. pseudobanksiae</i> is transferred to Sect. <i>Banksianae</i> ; <i>R. baiyushanensis</i> is transferred to the non-native group Sect. <i>Caninae</i> .
Sect. <i>Cinnamomeae</i>	36 species, 16 varieties, 2 forms	39 species, 25 varieties, 5 forms, 6 cultivars	<b>4 species newly recorded:</b> <i>R. iliensis</i> , <i>R. tomurensis</i> , <i>R. schrenkiana</i> , and <i>R. cinnamomea</i> <b>8 varieties newly recorded:</b> <i>R. praelucens</i> var. <i>alba</i> , <i>R. praelucens</i> var. <i>rosea</i> , <i>R. praelucens</i> var. <i>semi-plena</i> , <i>R. tomurensis</i> var. <i>rosea</i> , <i>R. acicularis</i> var. <i>albifloris</i> , <i>R. laxa</i> var. <i>kaschgarica</i> , <i>R. laxa</i> var. <i>rosea</i> , and <i>R. forrestiana</i> var. <i>maculata</i> <b>3 forms newly accepted:</b> <i>R. prattii</i> f. <i>incisifolia</i> ; additionally, two forms previously recorded in FRPS are now accepted: <i>R. rugosa</i> f. <i>rosea</i> and <i>R. rugosa</i> f. <i>alba</i> <b>6 cultivars newly recorded:</b> <i>R. rugosa</i> 'Danban Danfen', <i>R. rugosa</i> 'Si Ji', <i>R. rugosa</i> 'Plena', <i>R. rugosa</i> 'Albo-plena', <i>R. rugosa</i> 'Ku Shui', and <i>R. rugosa</i> 'Tu Wei'.

Sect. <i>Microphyllae</i>	3 species, 1 form	2 species, 2 forms	<p><b>1 species transferred out:</b> <i>R. praelucens</i> is transferred to Sect. <i>Cinnamomeae</i></p> <p><b>1 form newly recorded:</b> <i>R. roxburghii</i> f. <i>candida</i></p>
Sect. <i>Bracteatae</i>	1 species, 1 variety	1 species, 1 variety	No change
Sect. <i>Laevigatae</i>	1 species, 1 form	1 species, 1 variety, 1 form	<p><b>1 variety newly recorded:</b> <i>R. laevigata</i> var. <i>leiocapus</i></p> <p><b>1 species transferred in:</b> <i>R. pseudobanksiae</i> is transferred from Sect. <i>Cinnamomeae</i></p>
Sect. <i>Banksianae</i>	2 species, 2 varieties, 2 forms	3 species, 6 varieties, 1 form, 3 cultivars	<p><b>4 varieties newly recorded:</b> <i>R. banksiae</i> var. <i>inermis</i>, <i>R. pseudobanksiae</i> var. <i>alba</i>, <i>R. cymosa</i> var. <i>inermis</i>, and <i>R. cymosa</i> var. <i>dapanshanensis</i></p> <p><b>2 cultivars newly recorded:</b> <i>R. × fortuneana</i> (previously recorded in FRPS) and <i>R. banksiae</i> 'Wuci Chongbanbai'</p> <p><b>1 form adjusted:</b> <i>R. banksiae</i> 'Lutea' is reclassified from a botanical form to a cultivar.</p> <p><b>10 species synonymized:</b> <i>R. lichiangensis</i> is treated as a synonym of <i>R. multiflora</i> var. <i>cathayensis</i></p> <p><i>R. kunmingensis</i> and <i>R. miyiensis</i> are treated as synonyms of the cultivar <i>R. multiflora</i> 'Albo-plena'</p> <p><i>R. daishanensis</i>, <i>R. shangchengensis</i>, and <i>R. uniflorella</i> are treated as synonyms of <i>R. lucieae</i></p> <p><i>R. weisiensis</i> and <i>R. degenensis</i> are treated as synonyms of <i>R. duplicata</i></p> <p><i>R. henryi</i> is treated as a synonym of <i>R. sambucina</i> var. <i>pubescens</i></p> <p><i>R. derongensis</i> is treated as a synonym of <i>R. soulieana</i> var. <i>microphylla</i></p>
Sect. <i>Synstylae</i>	29 species, 11 varieties, 3 forms	19 species, 10 varieties, 4 forms, 22 cultivars	<p><b>2 varieties synonymized:</b> <i>R. kwangtungensis</i> var. <i>mollis</i> and <i>R. kwangtungensis</i> var. <i>plena</i> are treated as synonyms of the cultivar <i>R. multiflora</i> 'Albo-plena'</p> <p><b>2 varieties reclassified as cultivars:</b> <i>R. multiflora</i> 'Platyphylla' and <i>R. multiflora</i> 'Albo-plena'</p> <p><b>3 varieties newly recorded:</b> <i>R. multiflora</i> var. <i>pubescens</i>, <i>R. multiflora</i> var. <i>spinosa</i>, and <i>R. pricei</i> var. <i>rosea</i></p> <p><b>1 form newly recorded:</b> <i>R. kwangtungensis</i> f. <i>roseoliflora</i></p> <p><b>20 cultivars newly recorded:</b> <i>R. multiflora</i> 'Carnea', <i>R. anemoniflora</i> 'Chong Ban', etc.</p>

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			<p><b>2 species newly recorded:</b> <i>R. yangii</i> and <i>R. funingensis</i></p> <p><b>4 varieties adjusted:</b> <i>R. gigantea</i> is elevated to species rank</p> <p><i>R. chinensis</i> 'Zi Hong', <i>R. odorata</i> var. <i>erubescens</i>, and <i>R. × gigantea</i> 'Pseudindica' are reclassified as cultivars</p> <p><b>7 varieties newly recorded:</b> <i>R. lucidissima</i> var. <i>coccinea</i>, <i>R. chinensis</i> var. <i>multijuga</i>, <i>R. chinensis</i> var. <i>pubescens</i>, <i>R. chinensis</i> var. <i>coccinea</i>, <i>R. chinensis</i> var. <i>persicina</i>, <i>R. chinensis</i> var. <i>erubescence</i>, and <i>R. odorata</i> var. <i>normalis</i></p> <p><b>4 forms newly recorded:</b> <i>R. gigantea</i> f. <i>armeniaca</i>, <i>R. gigantea</i> f. <i>pseudindica</i>, <i>R. funingensis</i> f. <i>rosea</i> and <i>R. funingensis</i> f. <i>parvifolia</i></p> <p><b>25 cultivars newly recorded:</b> <i>R. × odorata</i> 'Chongban Fenyun', <i>R. chinensis</i> 'Chongban Taohong', etc.</p>
Sect. <i>Chinenses</i>	3 species, 5 varieties	6 species, 8 varieties, 4 forms, 28 cultivars	
Sect. <i>Caninae</i>	0	1 species	<p><b>1 species transferred in:</b> <i>R. baiyushanensis</i> (= <i>R. rubiginosa</i>) is transferred from Sect. <i>Cinnamomeae</i></p>
Total	93 species, 38 varieties, 17 forms, 148 taxa of <i>Rosa</i> in total	86 species, 53 varieties, 26 forms, 60 cultivars, 225 taxa of <i>Rosa</i> in total	<p><b>Newly recorded:</b> 7 species, 23 varieties, 10 forms, and 53 cultivars.</p> <p><b>Synonymized:</b> 14 species and 2 varieties are treated as synonyms of other species, varieties, or cultivars.</p> <p><b>Adjustments:</b> 1 species is reduced to a variety, 1 variety is elevated to a species, 6 varieties are reclassified as cultivars, 1 form is reclassified as a cultivar.</p>

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