Figure S7. The Neighbor-Joining and the Maximum Parsimony trees of ITS2 variants indicated that genetic information from the common ancestor was maintained in the genomes of descendants. The same colors represent the same species. The same shade and color of symbols show the variants with 100% identity. The Latin names of species are followed by the rank and RVA of the variants. **(A,B)** *Epimedium* (Berberidaceae). **(C,D)** *Inula* (Asteraceae). **(E,F)** *Ipomoea* (Convolvulaceae). **(G,H)** *Panax* (Araliaceae). **(I,J)** *Pinus* (Pinaceae).

Figure S7A.

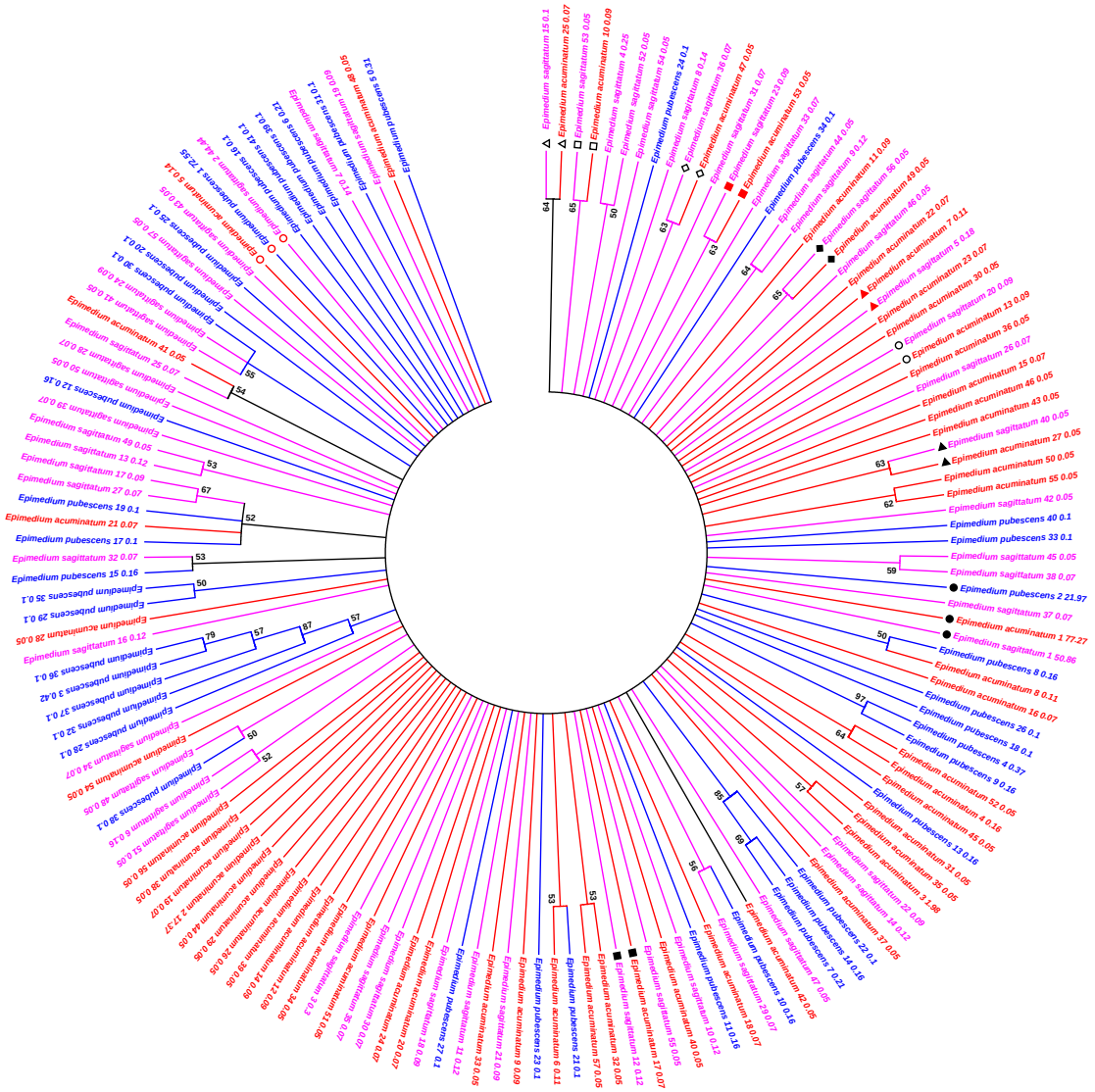
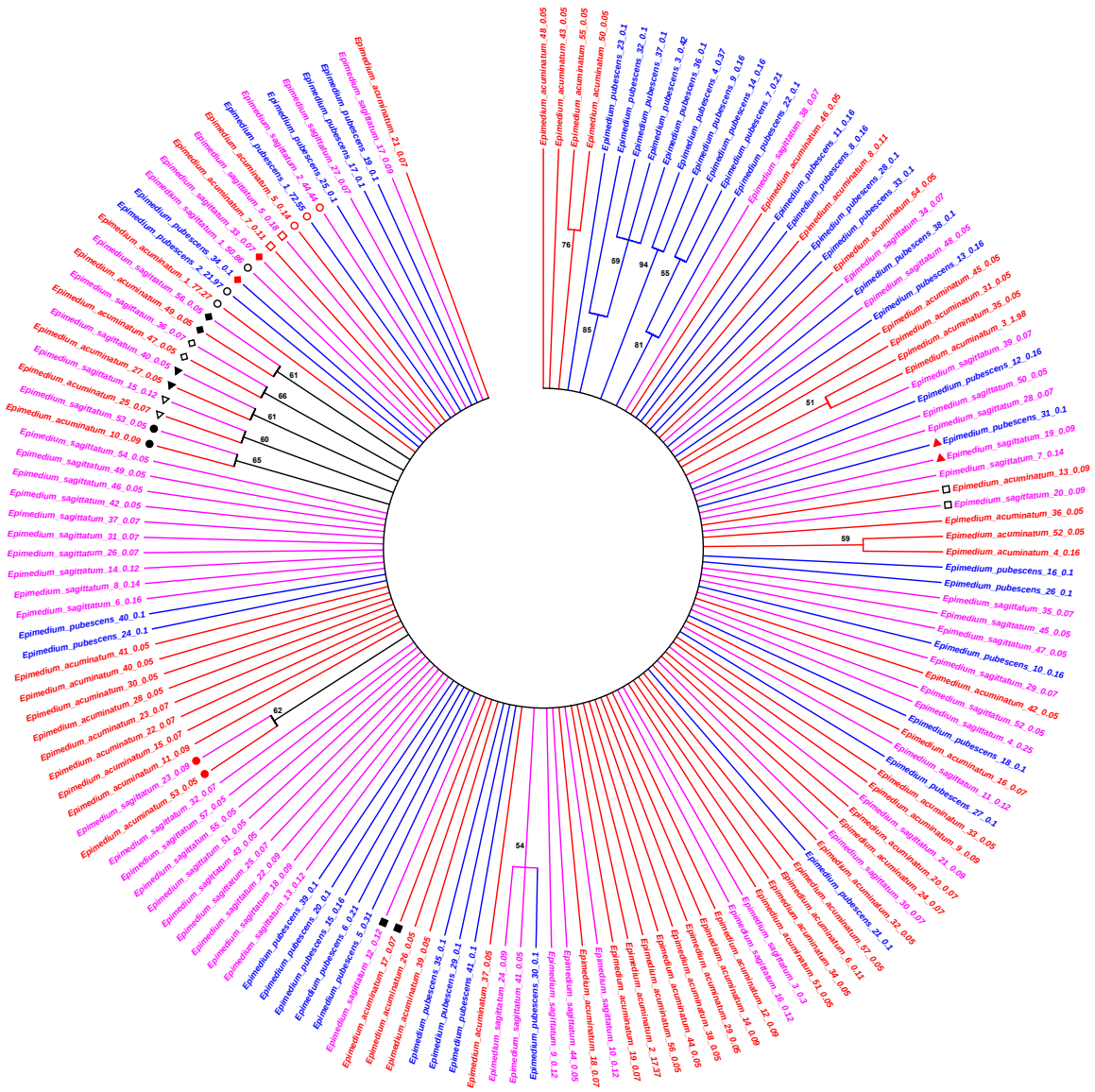


Figure S7B.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Epimedium_acuminatum_50_0.05
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Epimedium_pubescens_32_0.1
Epimedium_pubescens_37_0.1
Epimedium_pubescens_3_0.42
Epimedium_pubescens_35_0.1
Epimedium_pubescens_4_0.37
Epimedium_pubescens_9_0.16
Epimedium_pubescens_14_0.16
Epimedium_pubescens_7_0.21
Epimedium_pubescens_22_0.1
Epimedium_sagittatum_38_0.07
Epimedium_acuminatum_46_0.05
Epimedium_pubescens_11_0.16
Epimedium_pubescens_8_0.16
Epimedium_acuminatum_8_0.11
Epimedium_pubescens_28_0.1
Epimedium_pubescens_33_0.1
Epimedium_acuminatum_54_0.05
Epimedium_sagittatum_34_0.07
Epimedium_pubescens_39_0.1
Epimedium_sagittatum_48_0.05
Epimedium_pubescens_13_0.16
Epimedium_acuminatum_45_0.05
Epimedium_acuminatum_31_0.05
Epimedium_acuminatum_35_0.05
Epimedium_acuminatum_3_1.98
Epimedium_acuminatum_39_0.07
Epimedium_sagittatum_12_0.16
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Epimedium_sagittatum_28_0.07
Epimedium_pubescens_31_0.1
Epimedium_sagittatum_19_0.09
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Epimedium_sagittatum_35_0.07
Epimedium_sagittatum_45_0.05
Epimedium_sagittatum_47_0.05
Epimedium_pubescens_10_0.16
Epimedium_sagittatum_29_0.07
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Epimedium_sagittatum_4_0.25
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Epimedium_acuminatum_16_0.07
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Epimedium_pubescens_27_0.1
Epimedium_acuminatum_33_0.05
Epimedium_sagittatum_9_0.09
Epimedium_acuminatum_21_0.09
Epimedium_acuminatum_24_0.07
Epimedium_sagittatum_30_0.07
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Epimedium_acuminatum_12_0.09
Epimedium_acuminatum_29_0.06
Epimedium_acuminatum_56_0.05
Epimedium_acuminatum_44_0.05
Epimedium_acuminatum_38_0.05
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Epimedium_sagittatum_19_0.07
Epimedium_sagittatum_10_0.12
Epimedium_acuminatum_18_0.07
Epimedium_sagittatum_44_0.05
Epimedium_sagittatum_9_0.12
Epimedium_pubescens_30_0.1
Epimedium_acuminatum_37_0.05
Epimedium_sagittatum_24_0.09
Epimedium_sagittatum_41_0.05
Epimedium_pubescens_41_0.1
Epimedium_pubescens_29_0.1
Epimedium_pubescens_35_0.1
Epimedium_acuminatum_39_0.05
Epimedium_acuminatum_26_0.05
Epimedium_acuminatum_17_0.07
Epimedium_sagittatum_12_0.12
Epimedium_pubescens_6_0.21
Epimedium_pubescens_15_0.16
Epimedium_pubescens_20_0.1
Epimedium_pubescens_39_0.1
Epimedium_sagittatum_13_0.12
Epimedium_sagittatum_18_0.09
Epimedium_sagittatum_22_0.09
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Epimedium_sagittatum_51_0.05
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Epimedium_sagittatum_57_0.05
Epimedium_sagittatum_32_0.07
Epimedium_acuminatum_53_0.05
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Epimedium_pubescens_40_0.1
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Epimedium_sagittatum_31_0.07
Epimedium_sagittatum_37_0.07
Epimedium_sagittatum_42_0.05
Epimedium_sagittatum_46_0.05
Epimedium_sagittatum_49_0.05
Epimedium_sagittatum_54_0.05
Epimedium_acuminatum_10_0.09
Epimedium_sagittatum_53_0.05
Epimedium_acuminatum_25_0.07
Epimedium_sagittatum_15_0.12
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Epimedium_acuminatum_47_0.05
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Epimedium_sagittatum_27_0.07
Epimedium_pubescens_25_0.1
Epimedium_pubescens_17_0.1
Epimedium_sagittatum_17_0.09
Epimedium_acuminatum_21_0.07
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94
55
81
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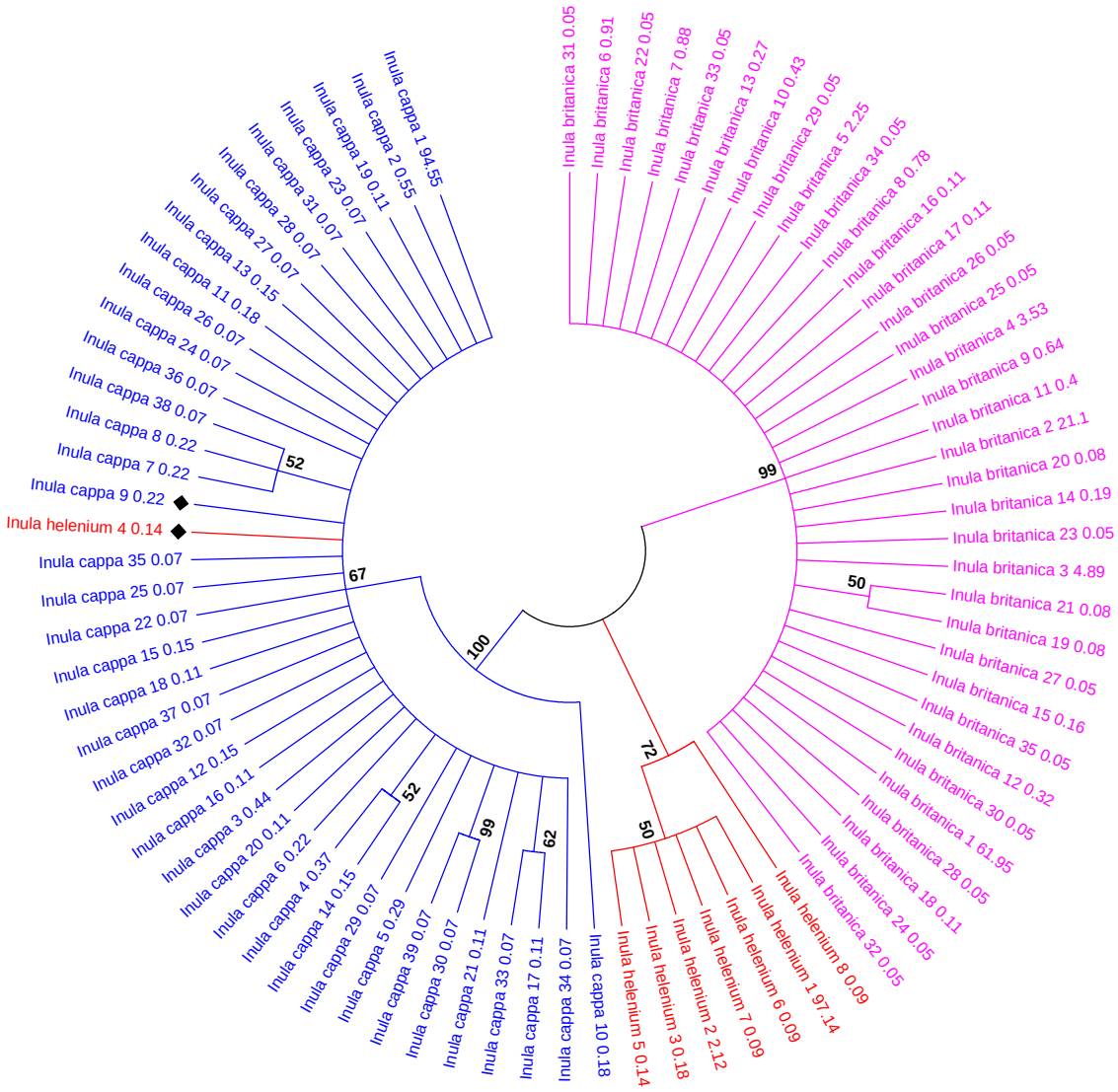
59
54
62
61
66
61
60
65

Figure S7C.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Inula britanica 33 0.05
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Inula britanica 10 0.43
Inula britanica 29 0.05
Inula britanica 5 2.25
Inula britanica 34 0.05
Inula britanica 8 0.78
Inula britanica 16 0.11
Inula britanica 17 0.11
Inula britanica 26 0.05
Inula britanica 25 0.05
Inula britanica 4 3.53
Inula britanica 9 0.64
Inula britanica 11 0.4
Inula britanica 2 21.1
Inula britanica 20 0.08
Inula britanica 14 0.19
Inula britanica 23 0.05
Inula britanica 3 4.89
Inula britanica 21 0.08
Inula britanica 19 0.08
Inula britanica 27 0.05
Inula britanica 15 0.16
Inula britanica 35 0.05
Inula britanica 12 0.32
Inula britanica 30 0.05
Inula britanica 1 61.95
Inula britanica 28 0.05
Inula britanica 18 0.11
Inula britanica 24 0.05
Inula britanica 32 0.05
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Inula helenium 1 97.14
Inula helenium 6 0.09
Inula helenium 7 0.09
Inula helenium 2 2.12
Inula helenium 3 0.18
Inula helenium 5 0.14
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Inula cappa 34 0.07
Inula cappa 17 0.11
Inula cappa 33 0.07
Inula cappa 21 0.11
Inula cappa 30 0.07
Inula cappa 39 0.07
Inula cappa 5 0.29
Inula cappa 29 0.07
Inula cappa 14 0.15
Inula cappa 4 0.37
Inula cappa 6 0.22
Inula cappa 20 0.11
Inula cappa 3 0.44
Inula cappa 16 0.11
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Inula cappa 18 0.11
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Inula cappa 8 0.22
Inula cappa 38 0.07
Inula cappa 36 0.07
Inula cappa 24 0.07
Inula cappa 26 0.07
Inula cappa 11 0.18
Inula cappa 13 0.15
Inula cappa 27 0.07
Inula cappa 28 0.07
Inula cappa 31 0.07
Inula cappa 23 0.07
Inula cappa 19 0.11
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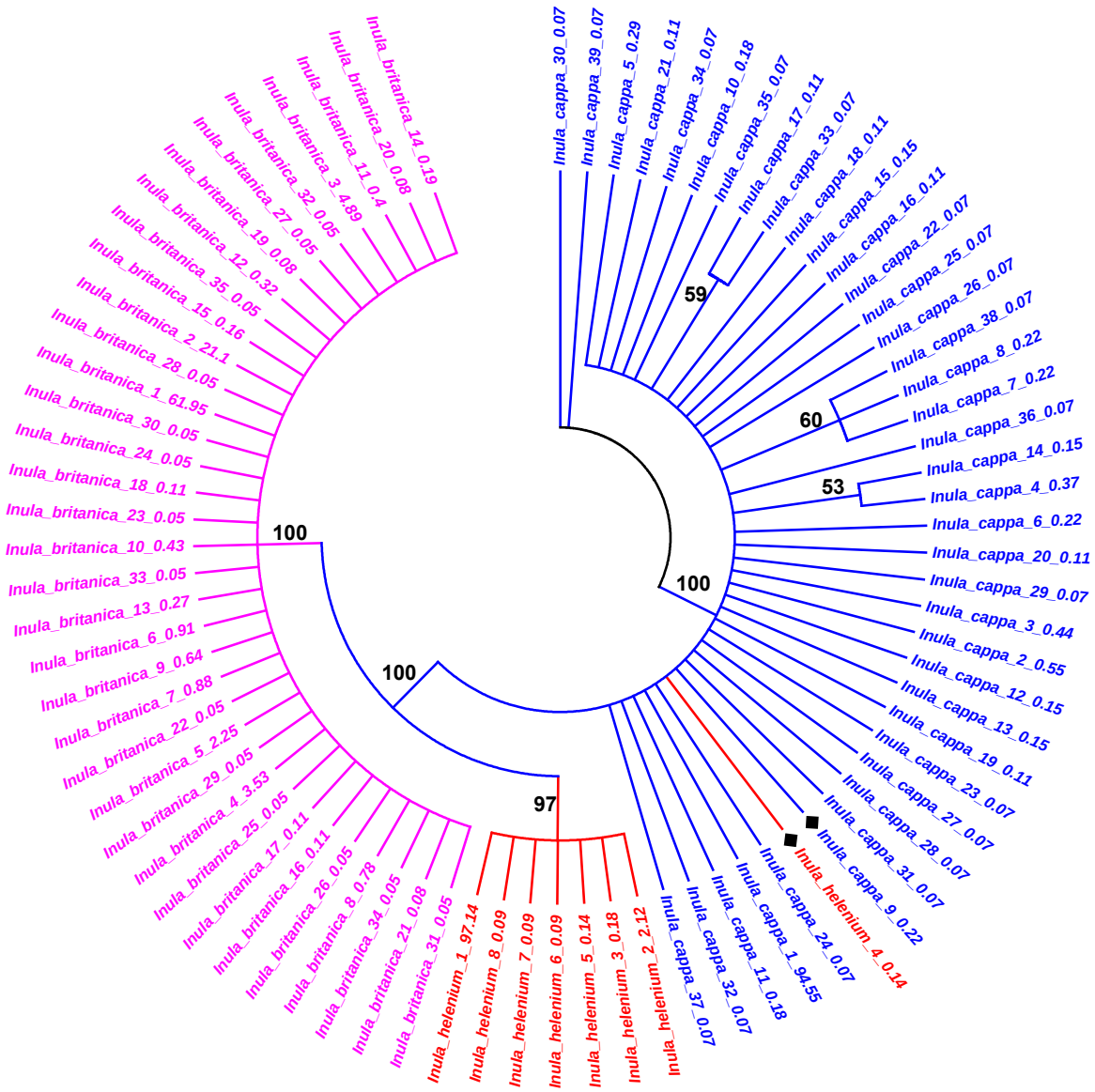
62
99
52
52
67
100

Figure S7D.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Inula_britanica_27_0.05
Inula_britanica_19_0.08
Inula_britanica_12_0.32
Inula_britanica_35_0.05
Inula_britanica_15_0.16
Inula_britanica_2_21.1
Inula_britanica_28_0.05
Inula_britanica_1_61.95
Inula_britanica_30_0.05
Inula_britanica_24_0.05
Inula_britanica_18_0.11
Inula_britanica_23_0.05
Inula_britanica_10_0.43
Inula_britanica_33_0.05
Inula_britanica_13_0.27
Inula_britanica_6_0.91
Inula_britanica_9_0.64
Inula_britanica_7_0.88
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Inula_britanica_5_2.25
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Inula_britanica_16_0.11
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Inula_britanica_31_0.05
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Inula_helenium_2_2.12
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Inula_cappa_11_0.18
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Inula_cappa_24_0.07
Inula_helenium_4_0.14
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Inula_cappa_15_0.15
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Inula_cappa_33_0.07
Inula_cappa_17_0.11
Inula_cappa_35_0.07
Inula_cappa_10_0.18
Inula_cappa_34_0.07
Inula_cappa_21_0.11
Inula_cappa_5_0.29
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Inula_cappa_30_0.07
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100
100
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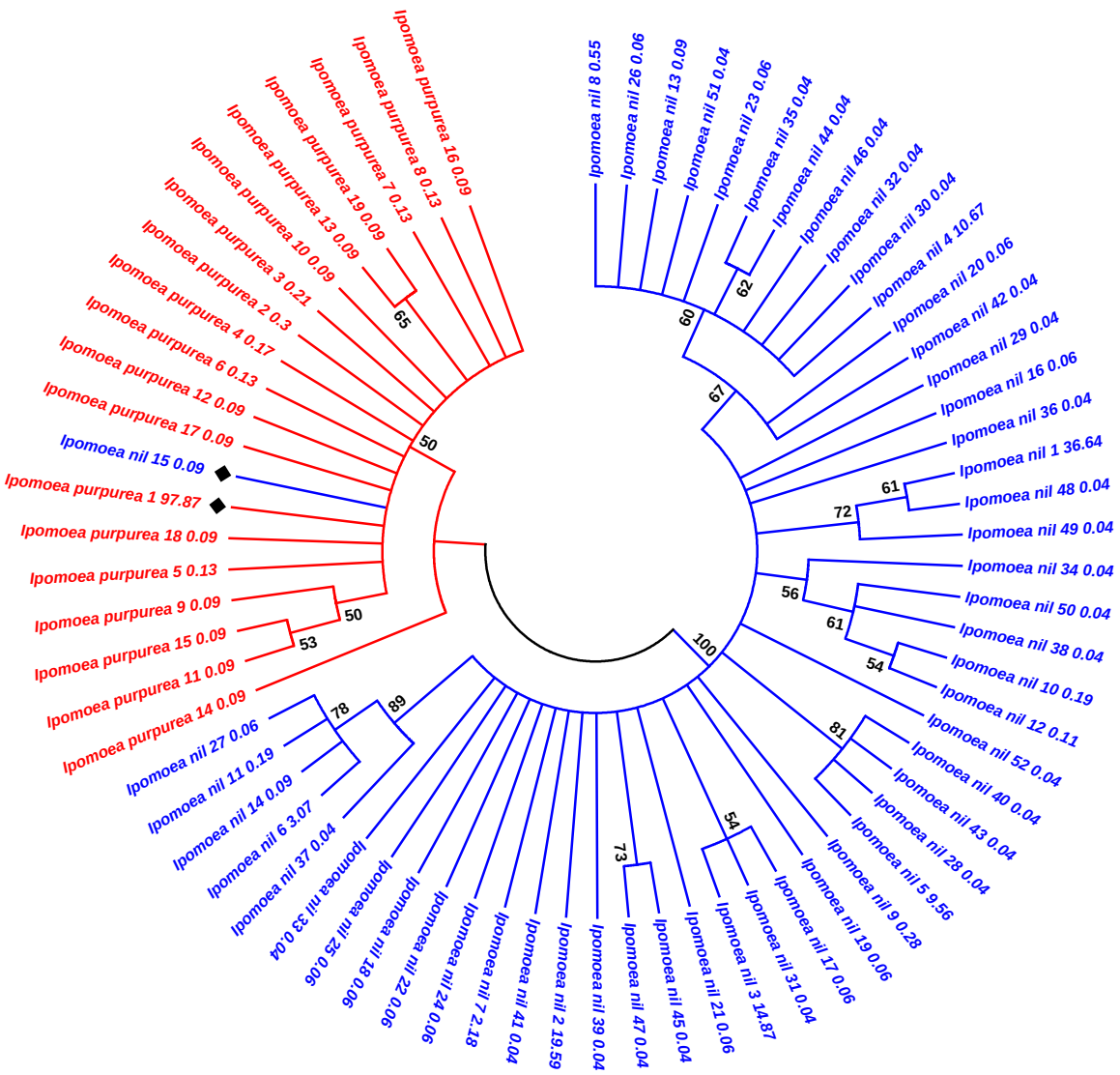
59
60
53

Figure S7E.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Ipomoea nil 44 0.04
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Ipomoea nil 9 0.28
Ipomoea nil 19 0.06
Ipomoea nil 17 0.06
Ipomoea nil 31 0.04
Ipomoea nil 3 14.87
Ipomoea nil 21 0.06
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Ipomoea nil 39 0.04
Ipomoea nil 2 19.59
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Ipomoea nil 33 0.04
Ipomoea nil 37 0.04
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Ipomoea nil 14 0.09
Ipomoea nil 11 0.19
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Ipomoea purpurea 18 0.09
Ipomoea purpurea 1 97.87
Ipomoea nil 15 0.09
Ipomoea purpurea 17 0.09
Ipomoea purpurea 12 0.09
Ipomoea purpurea 6 0.13
Ipomoea purpurea 4 0.17
Ipomoea purpurea 2 0.3
Ipomoea purpurea 3 0.21
Ipomoea purpurea 10 0.09
Ipomoea purpurea 13 0.09
Ipomoea purpurea 19 0.09
Ipomoea purpurea 7 0.13
Ipomoea purpurea 8 0.13
Ipomoea purpurea 16 0.09
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89
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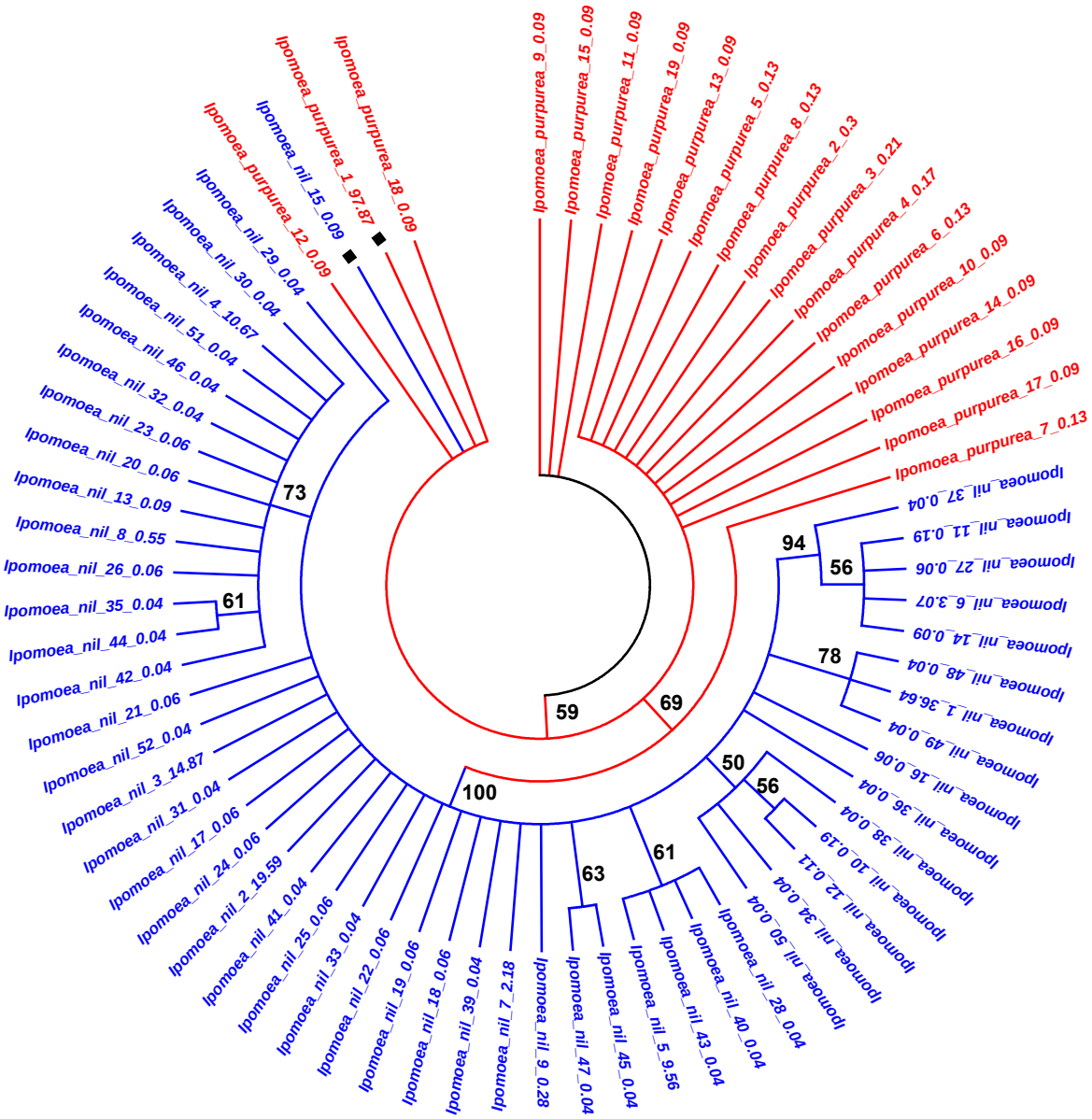
53
65

Figure S7F.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Ipomoea_purpurea_13_0.09
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Ipomoea_purpurea_8_0.13
Ipomoea_purpurea_2_0.3
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Ipomoea_purpurea_4_0.17
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Ipomoea_nil_19_0.06
Ipomoea_nil_22_0.06
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Ipomoea_nil_25_0.06
Ipomoea_nil_41_0.04
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Ipomoea_nil_35_0.04
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Ipomoea_nil_8_0.55
Ipomoea_nil_13_0.09
Ipomoea_nil_20_0.06
Ipomoea_nil_23_0.06
Ipomoea_nil_32_0.04
Ipomoea_nil_46_0.04
Ipomoea_nil_51_0.04
Ipomoea_nil_4_10.67
Ipomoea_nil_30_0.04
Ipomoea_nil_29_0.04
Ipomoea_purpurea_12_0.09
Ipomoea_nil_15_0.09
Ipomoea_purpurea_1_97.87
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78
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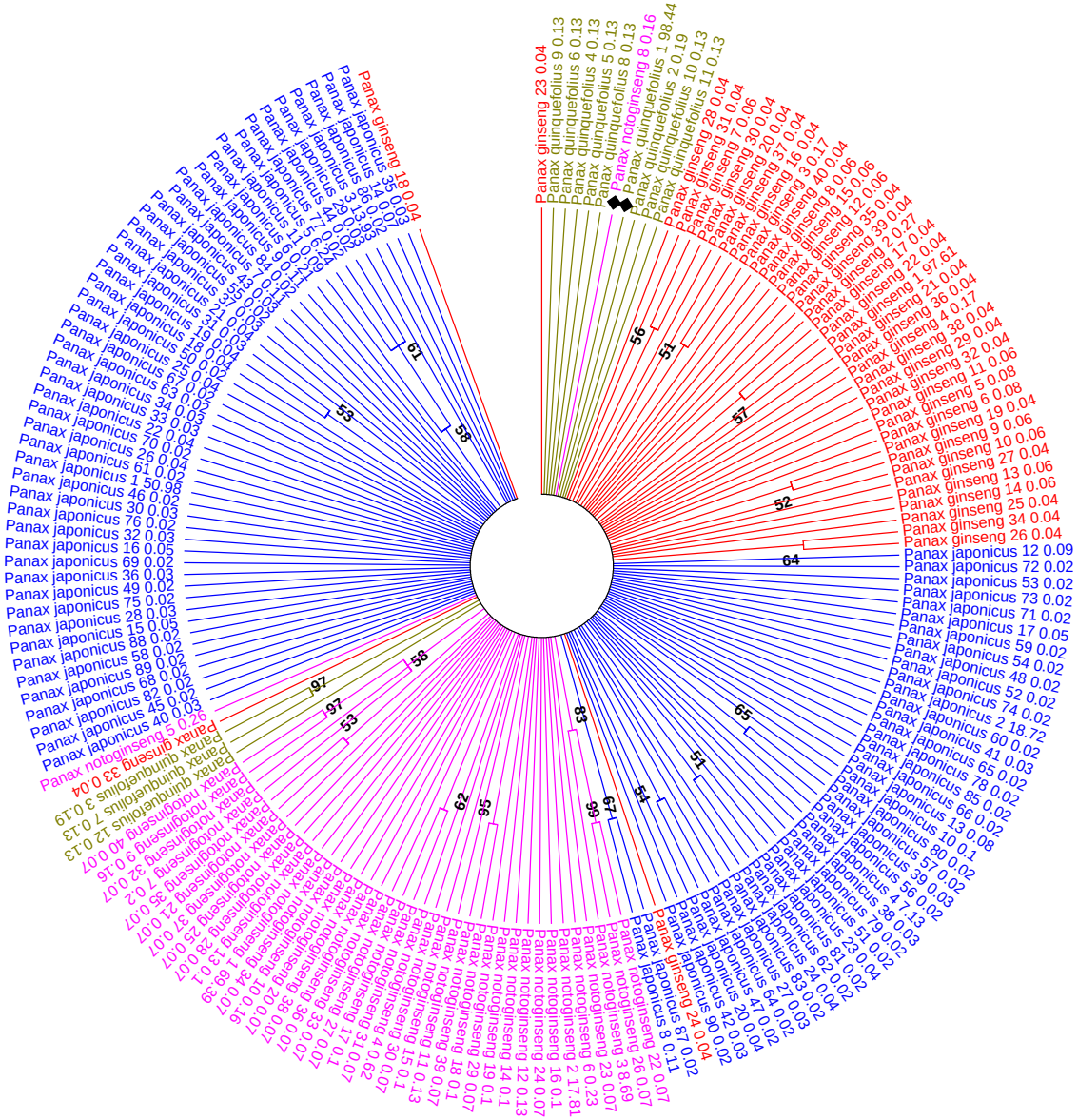
73
61

Figure S7G.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Panax quinquefolius 8 0.13
Panax notoginseng 8 0.16
Panax quinquefolius 1 98.44
Panax quinquefolius 2 0.19
Panax quinquefolius 10 0.13
Panax quinquefolius 11 0.13
Panax ginseng 28 0.04
Panax ginseng 31 0.04
Panax ginseng 7 0.06
Panax ginseng 30 0.04
Panax ginseng 20 0.04
Panax ginseng 37 0.04
Panax ginseng 16 0.04
Panax ginseng 3 0.17
Panax ginseng 40 0.04
Panax ginseng 8 0.06
Panax ginseng 15 0.06
Panax ginseng 12 0.06
Panax ginseng 35 0.04
Panax ginseng 39 0.04
Panax ginseng 2 0.27
Panax ginseng 17 0.04
Panax ginseng 22 0.04
Panax ginseng 1 97.61
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Panax ginseng 29 0.04
Panax ginseng 32 0.04
Panax ginseng 11 0.06
Panax ginseng 5 0.08
Panax ginseng 6 0.08
Panax ginseng 19 0.04
Panax ginseng 9 0.06
Panax ginseng 10 0.06
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Panax ginseng 13 0.06
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Figure S7H.

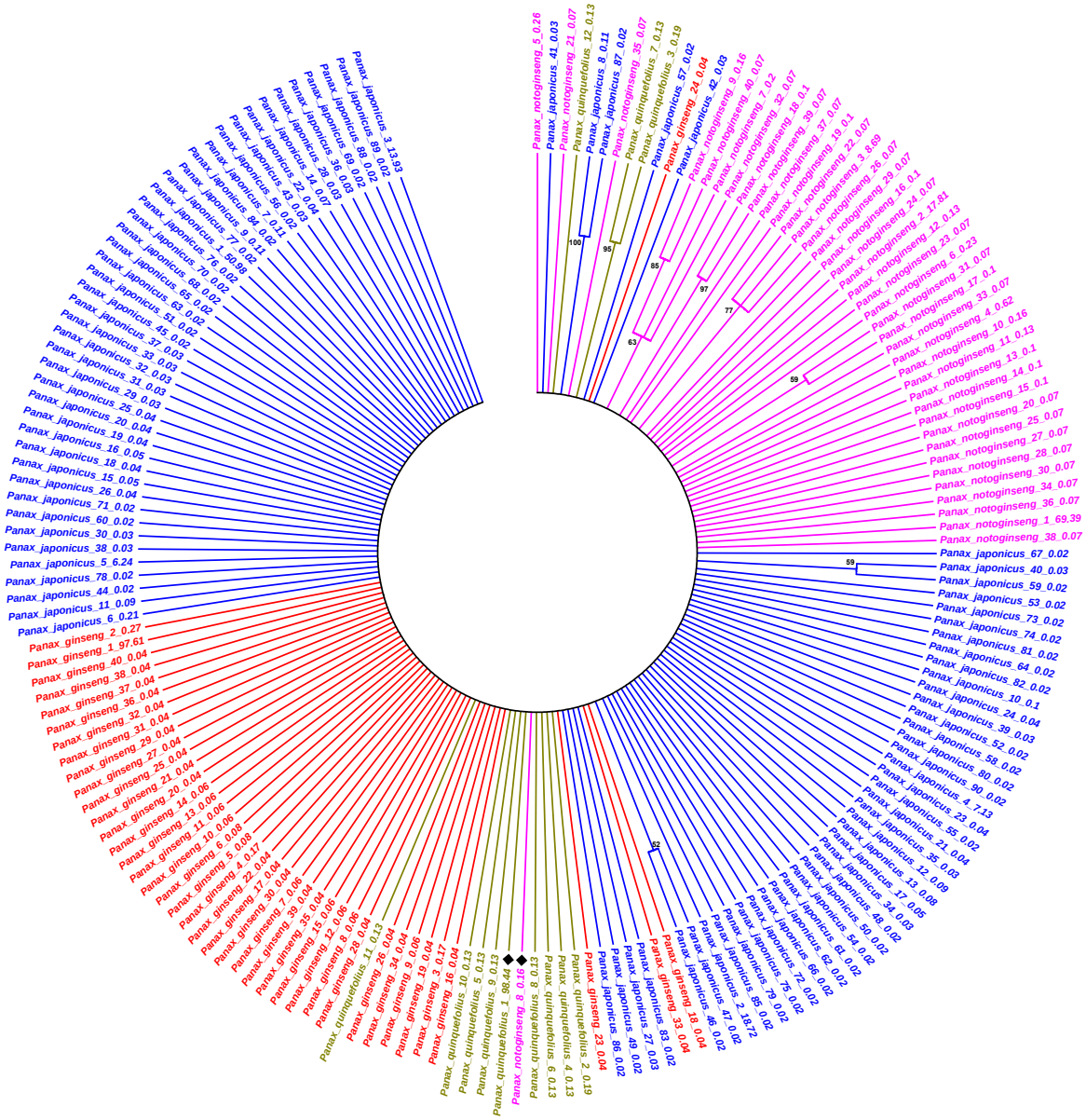
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Figure S7I.

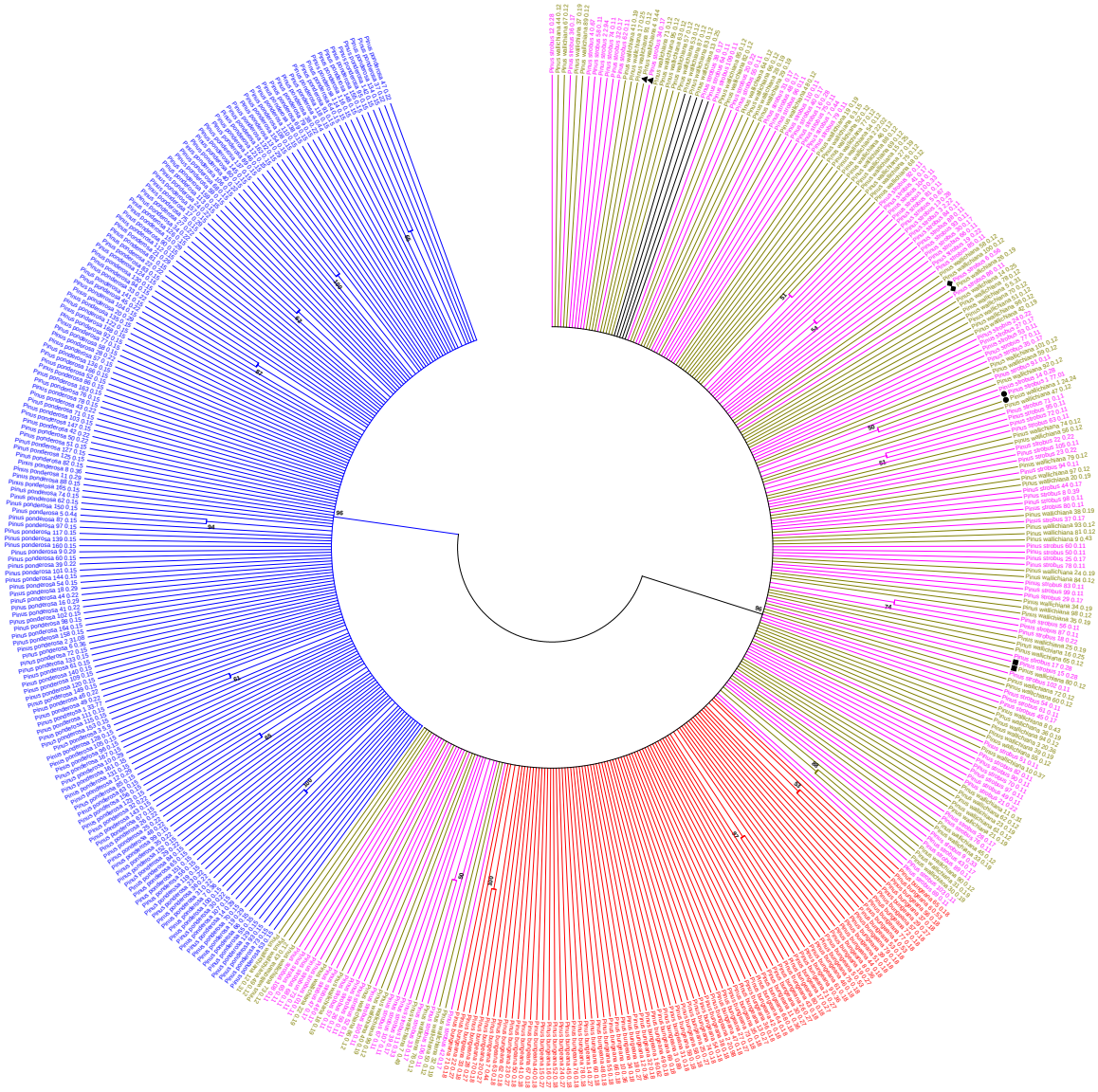
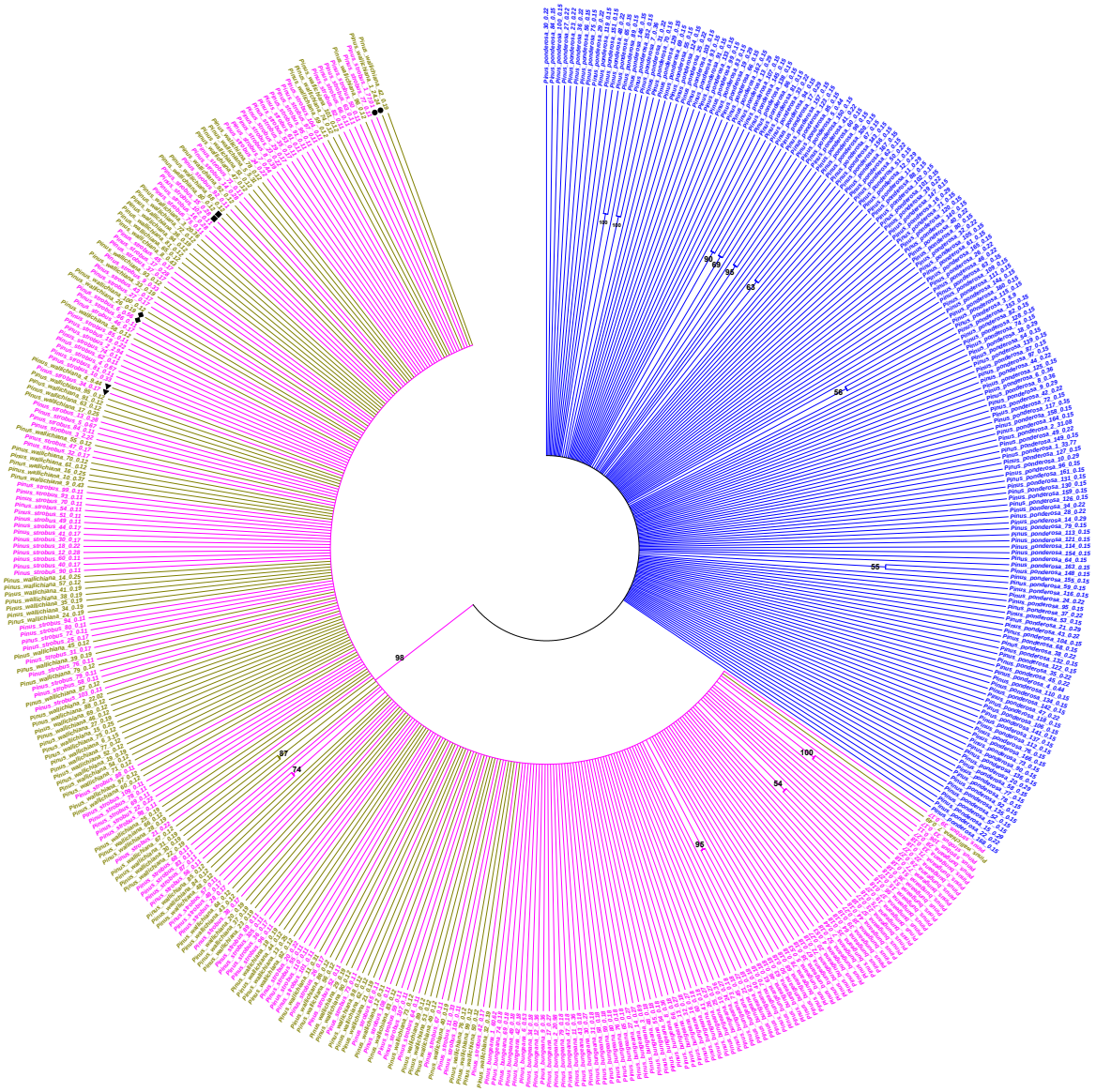
Figure S7J.