

Supplementary Information (SI)

Genomic Diversity of Major Tree Species in the Eurasian Relict Forests of Northern Iran

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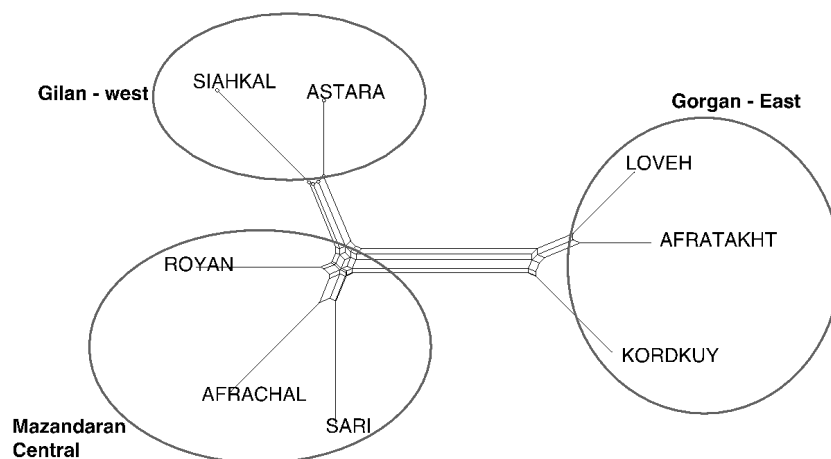
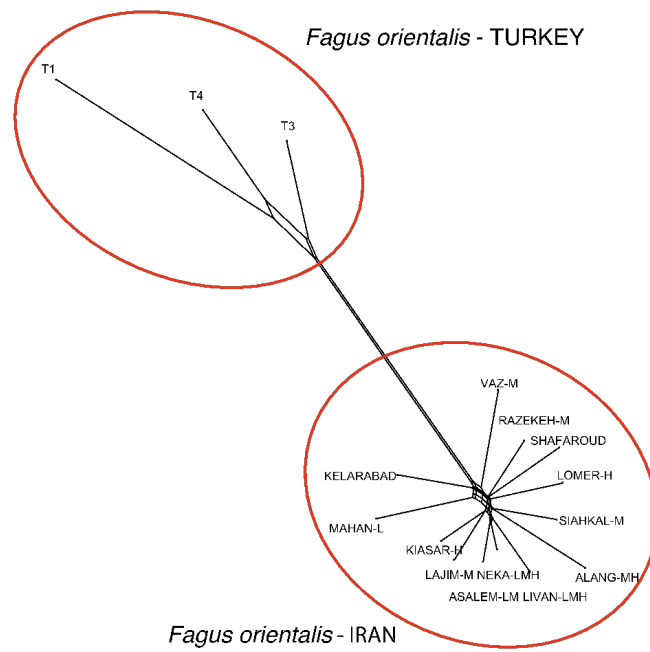
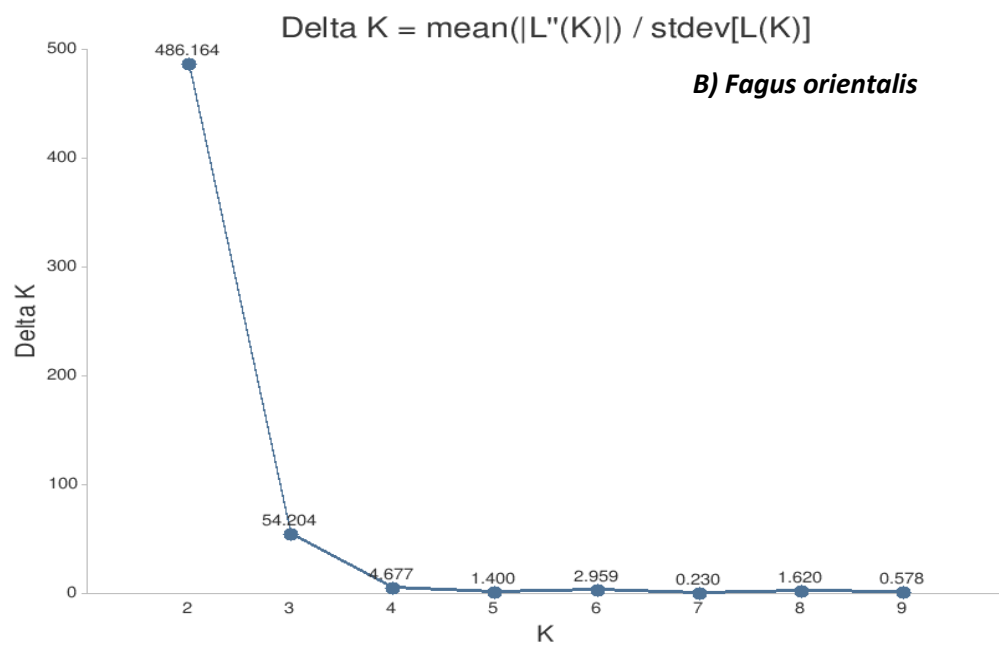
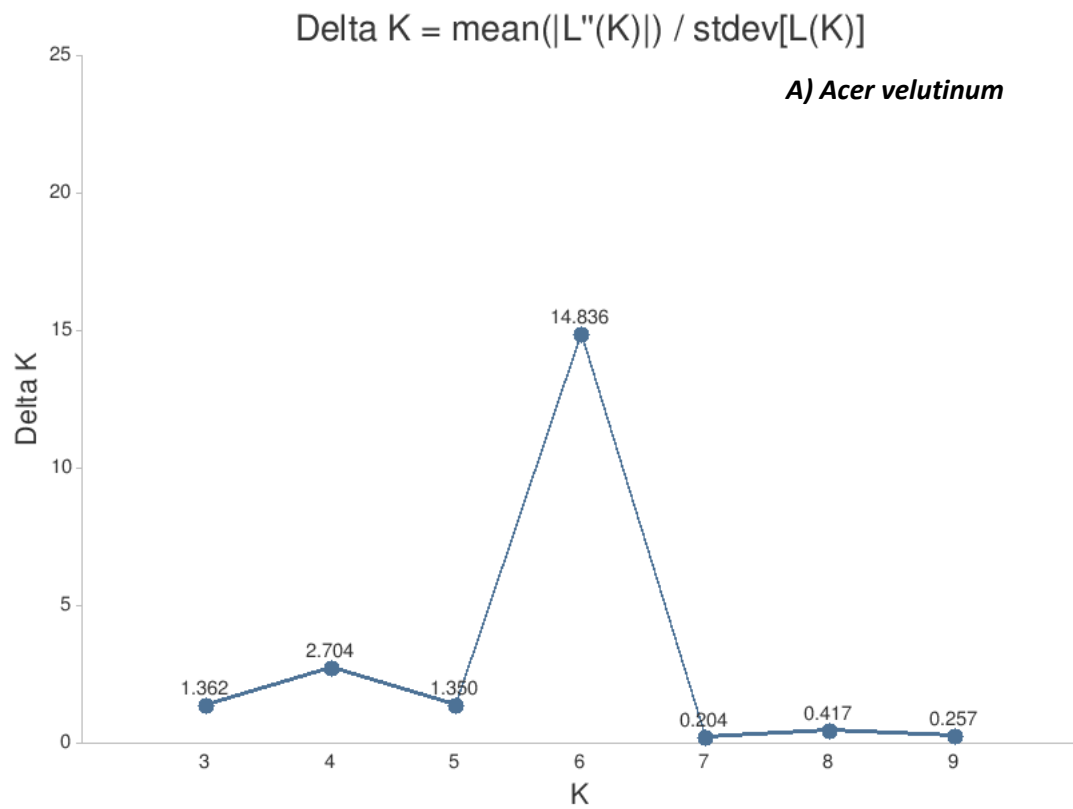


Fig. S1.1. Network tree for selected *A. velutinum* populations.



20 **Fig. S1.2.** Network tree for selected *F. orientalis* populations from Iran and Turkey.



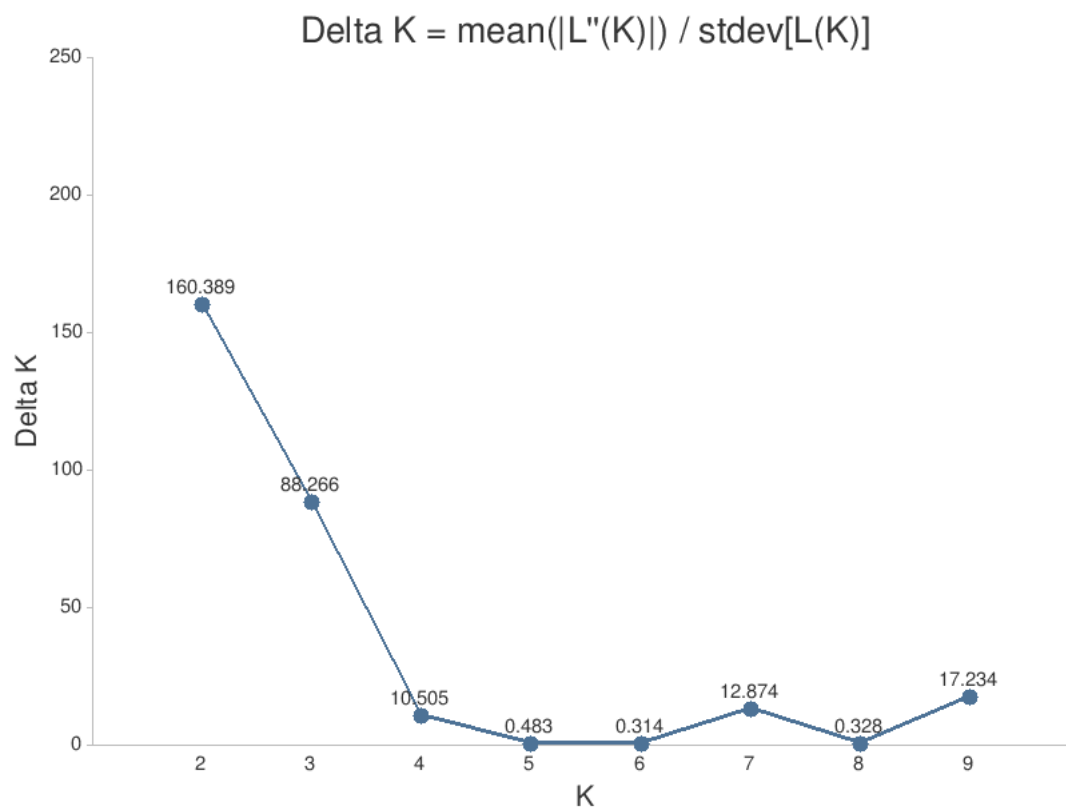
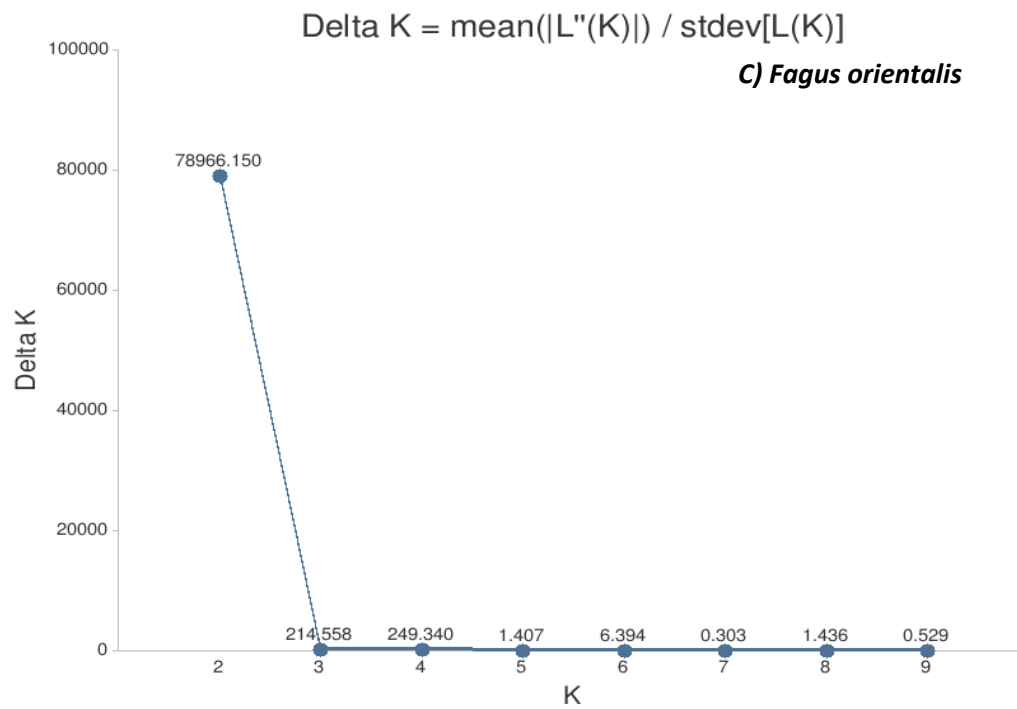


Fig. S2. Best K suggested by Evanno (2005) method. A) *Acer velutinum*. B) *Fagus orientalis* – Iranian populations. C) *Fagus orientalis* – from Iran and Turkey. D) *Quercus castaneifolia*.

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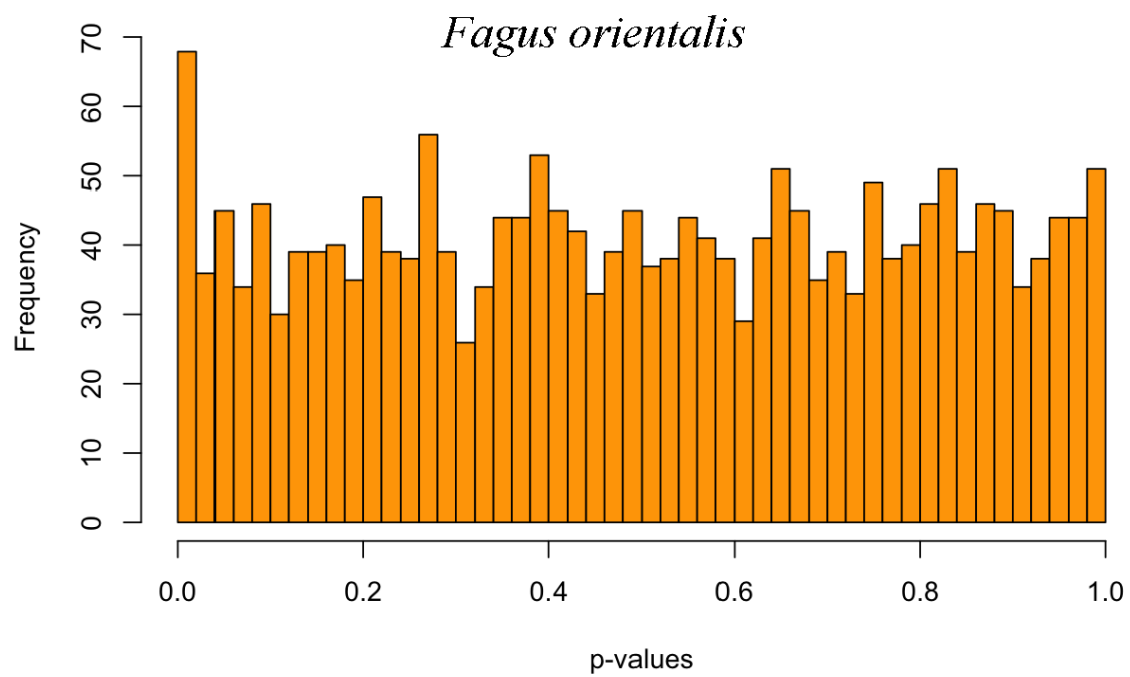
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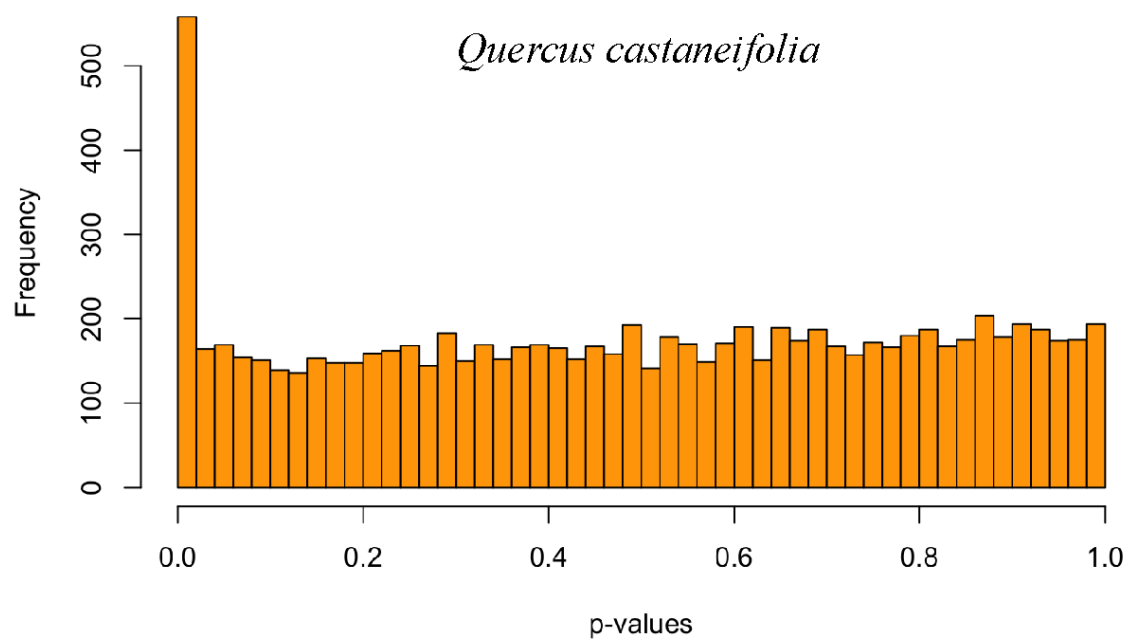
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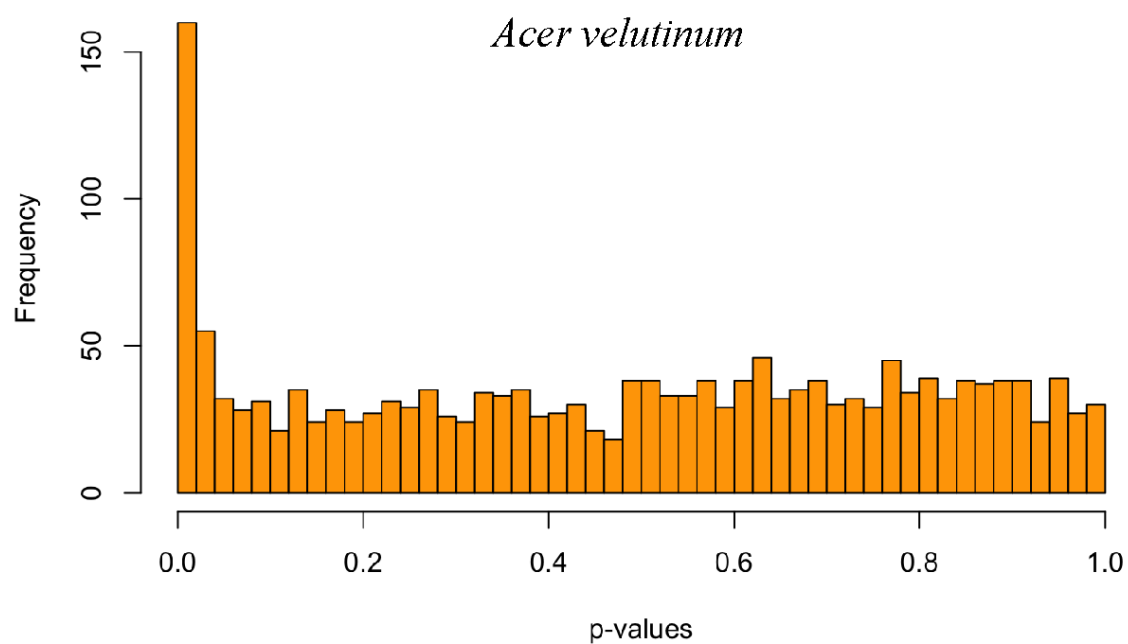
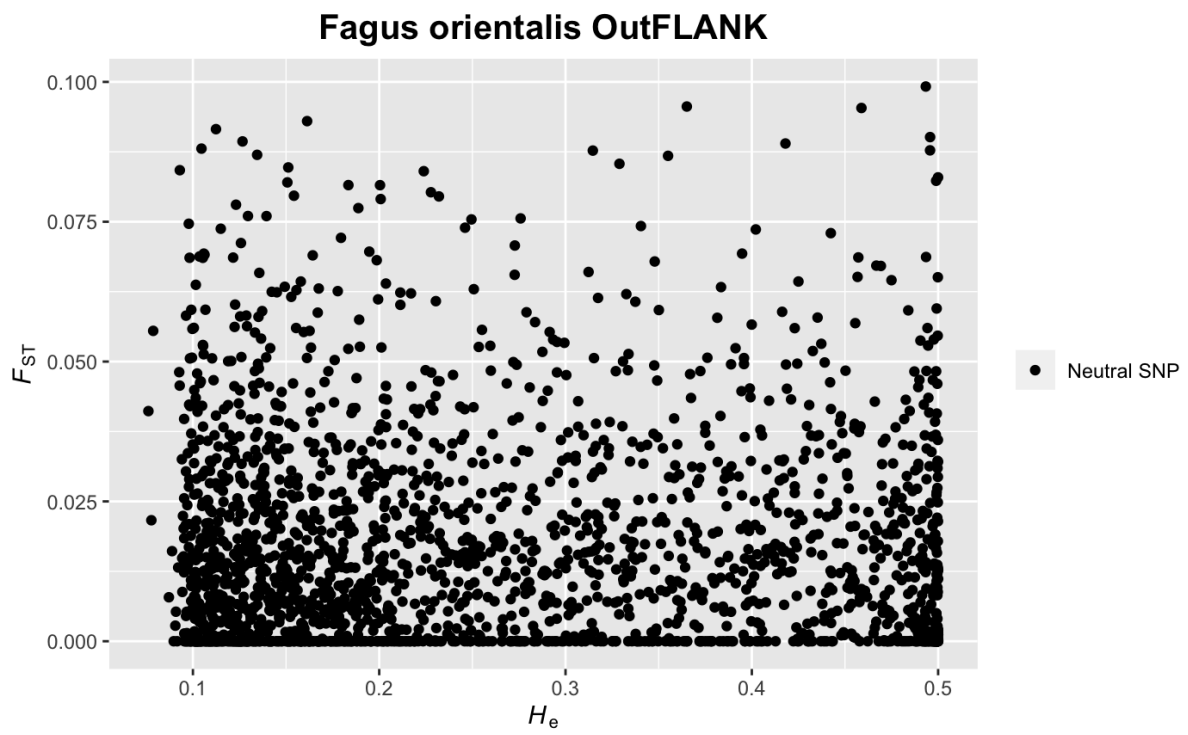
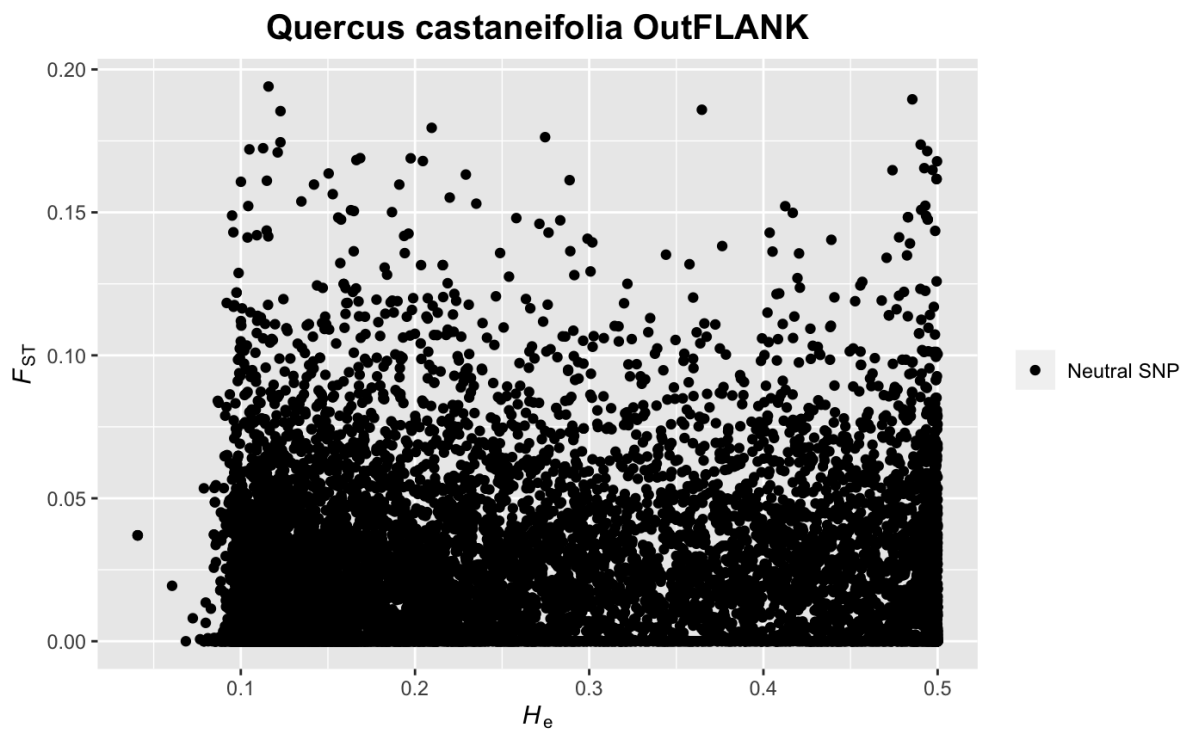


Fig. S4. Outlier loci detected by pcadapt. An excess of small p-values suggests the existence of outliers, which is high in *Quercus castaneifolia* and *Acer velutinum*.



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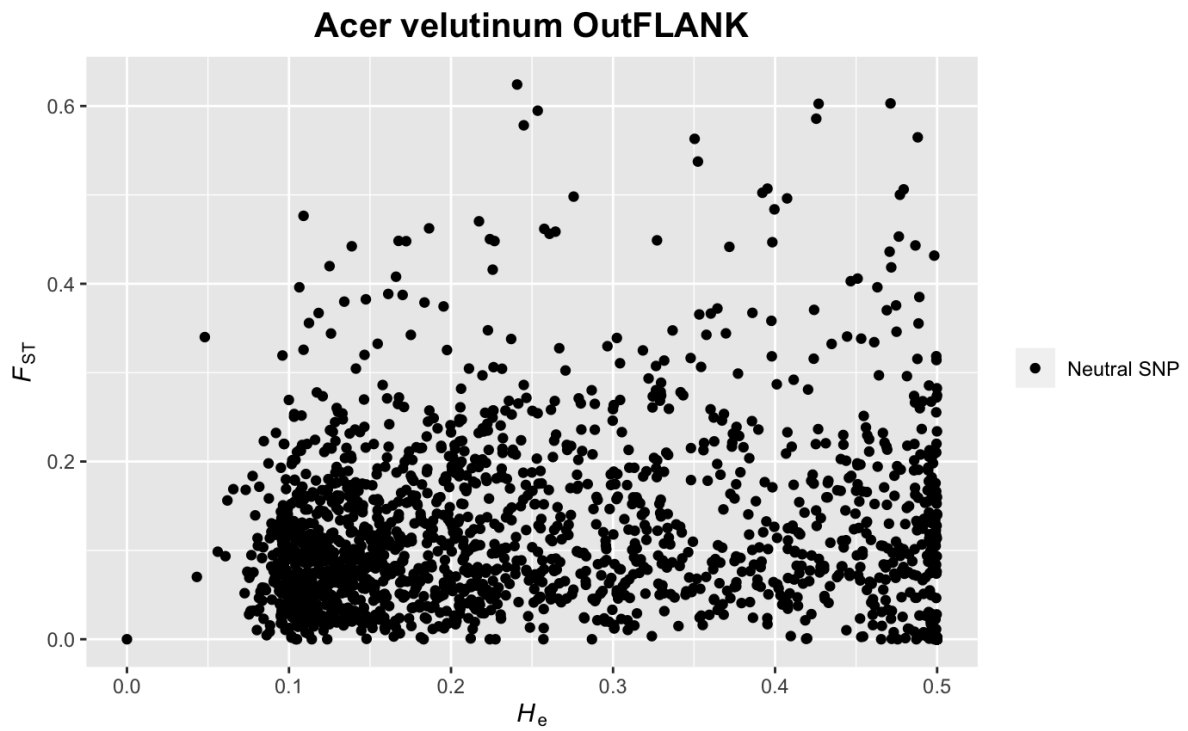
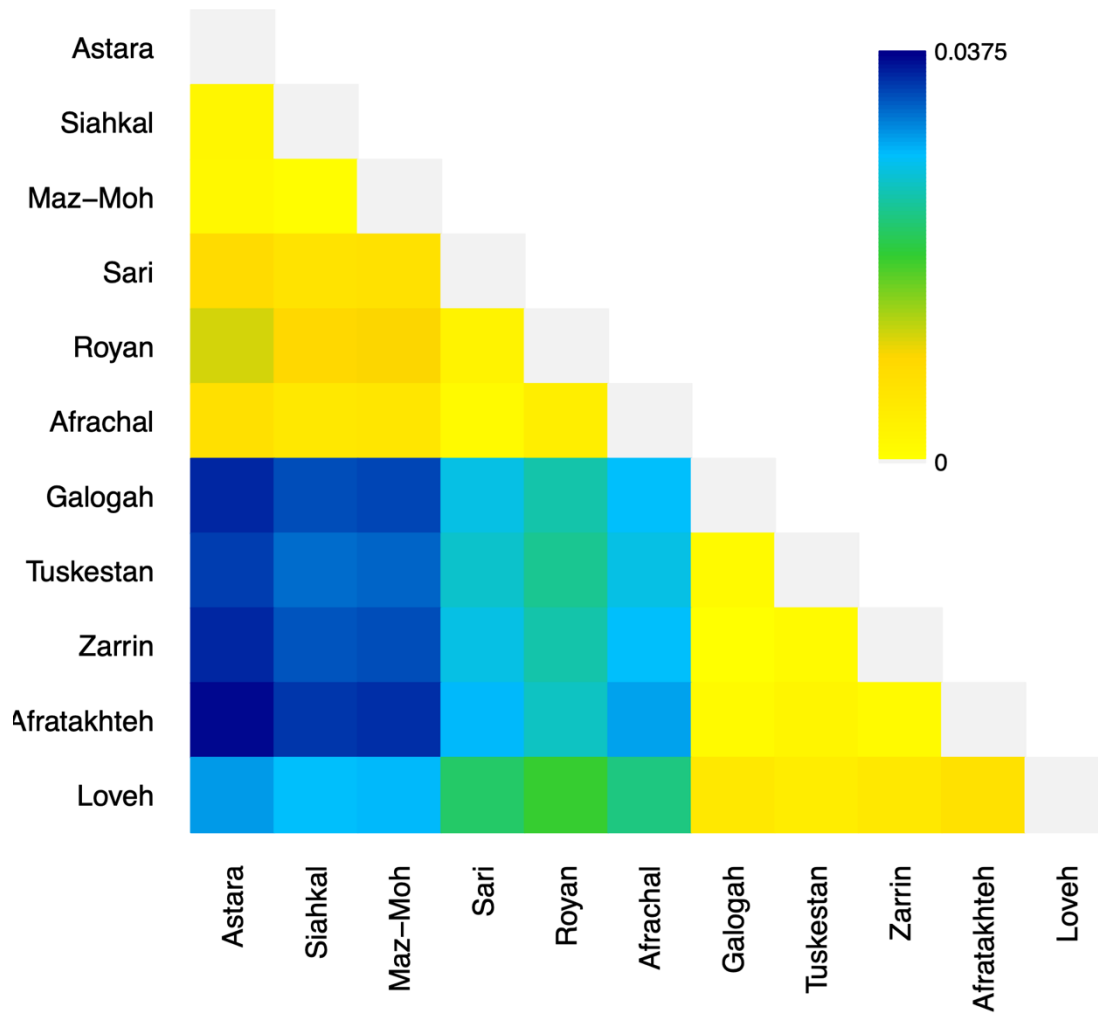
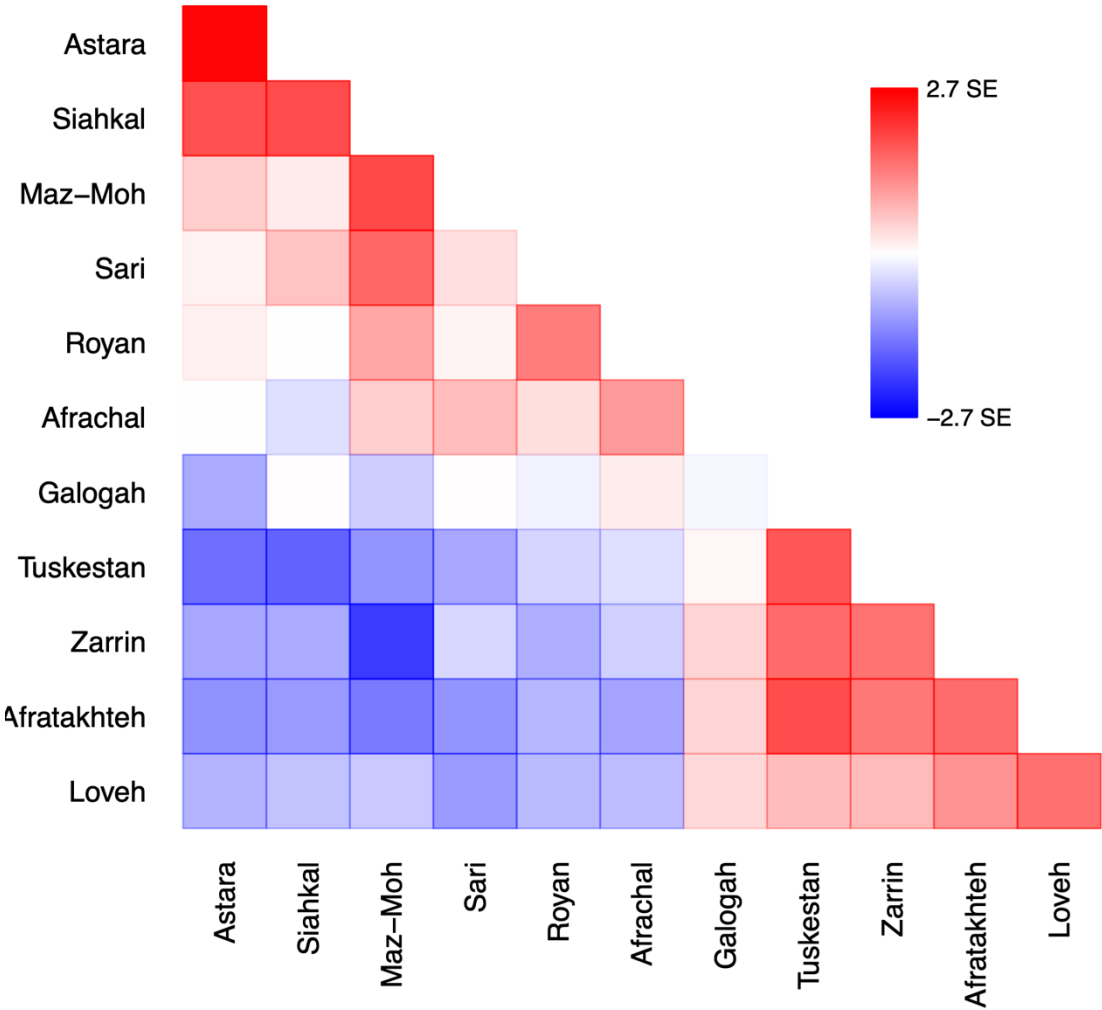


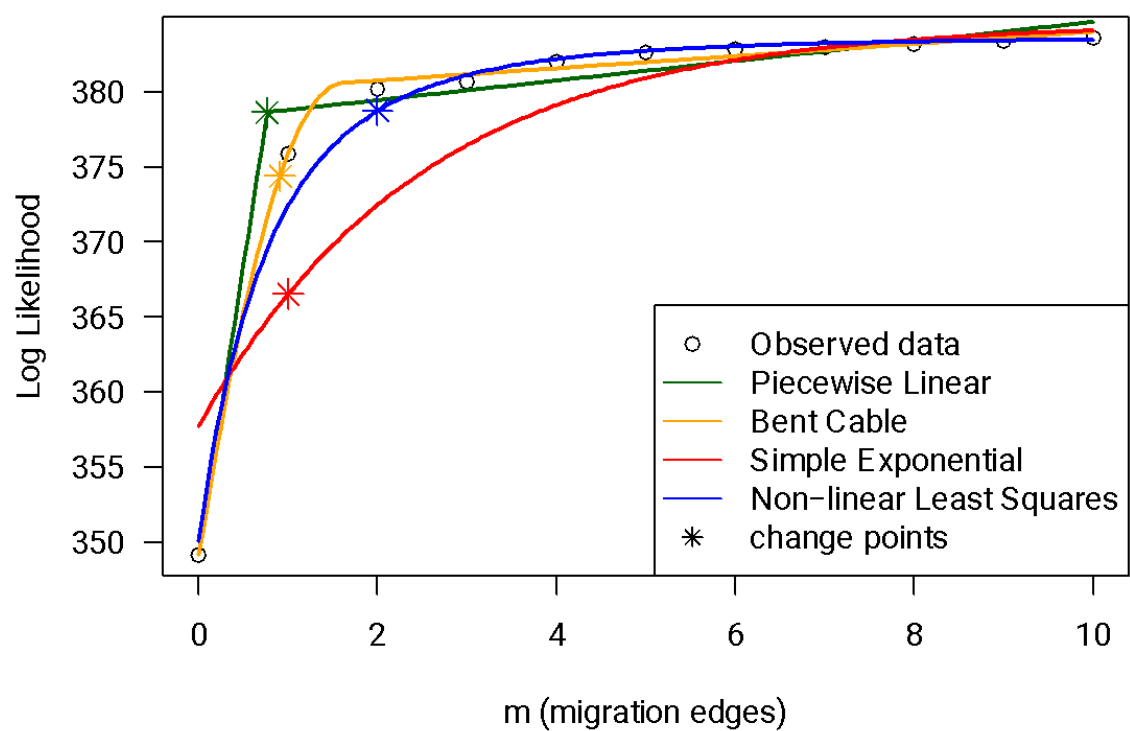
Fig. S5. Inferred distribution of neutral F_{ST} after excluding outlier loci with OutFLANK.

Drift

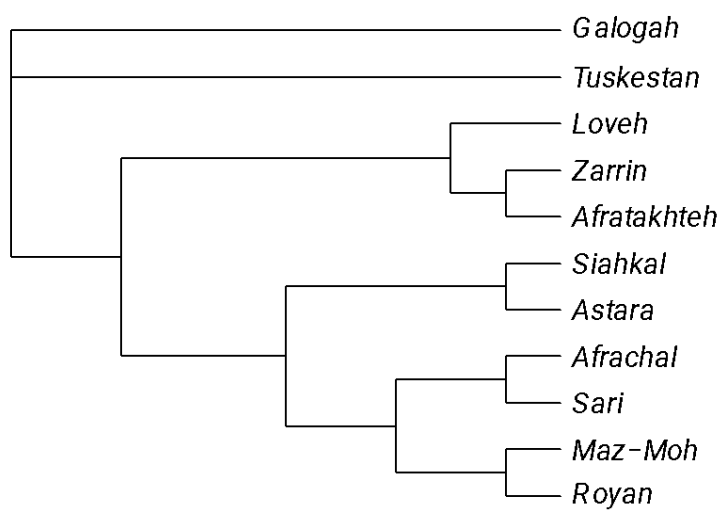


Residuals





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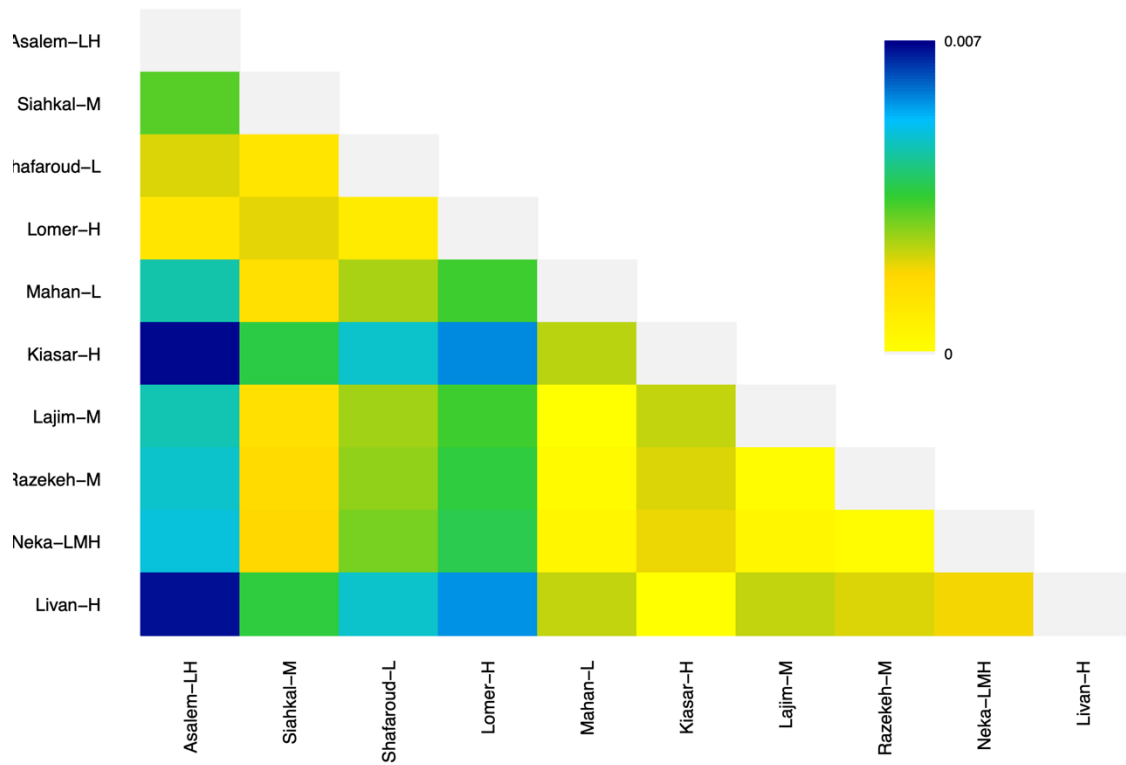


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63 **Figure S6.1:** Residual, drift matrices, linear models and maximum likelihood tree of TreeMix
64 analysis for *Acer velutinum*.

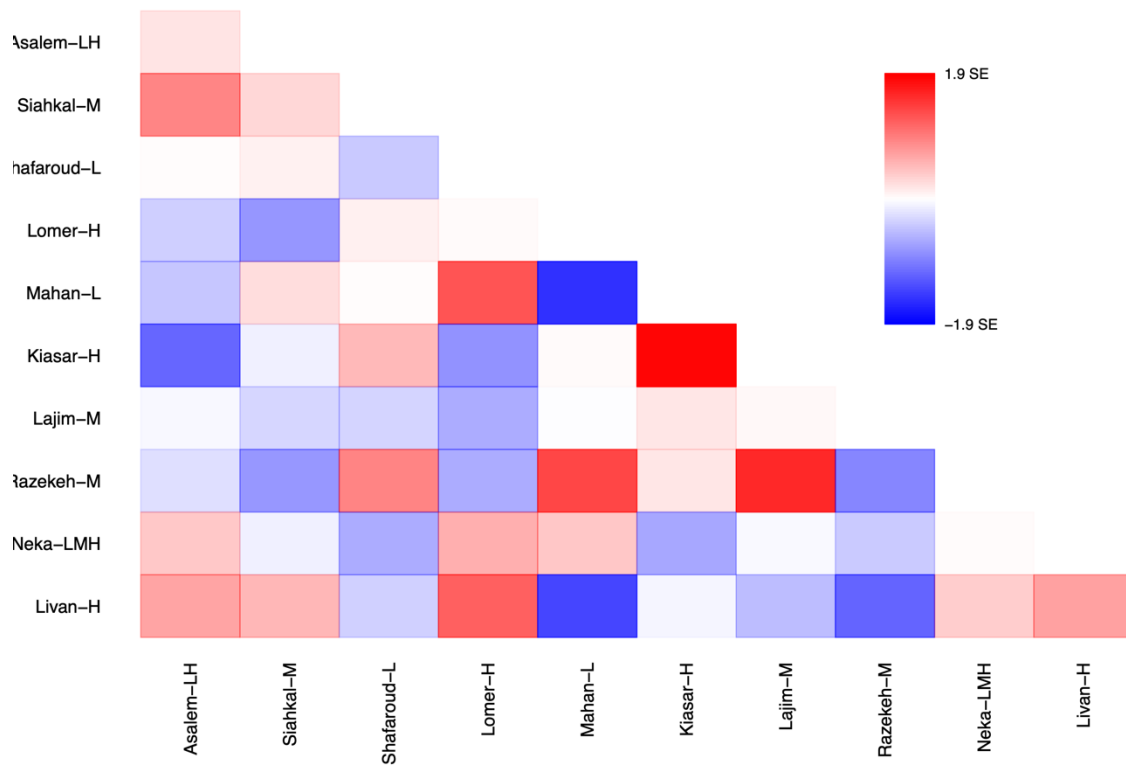
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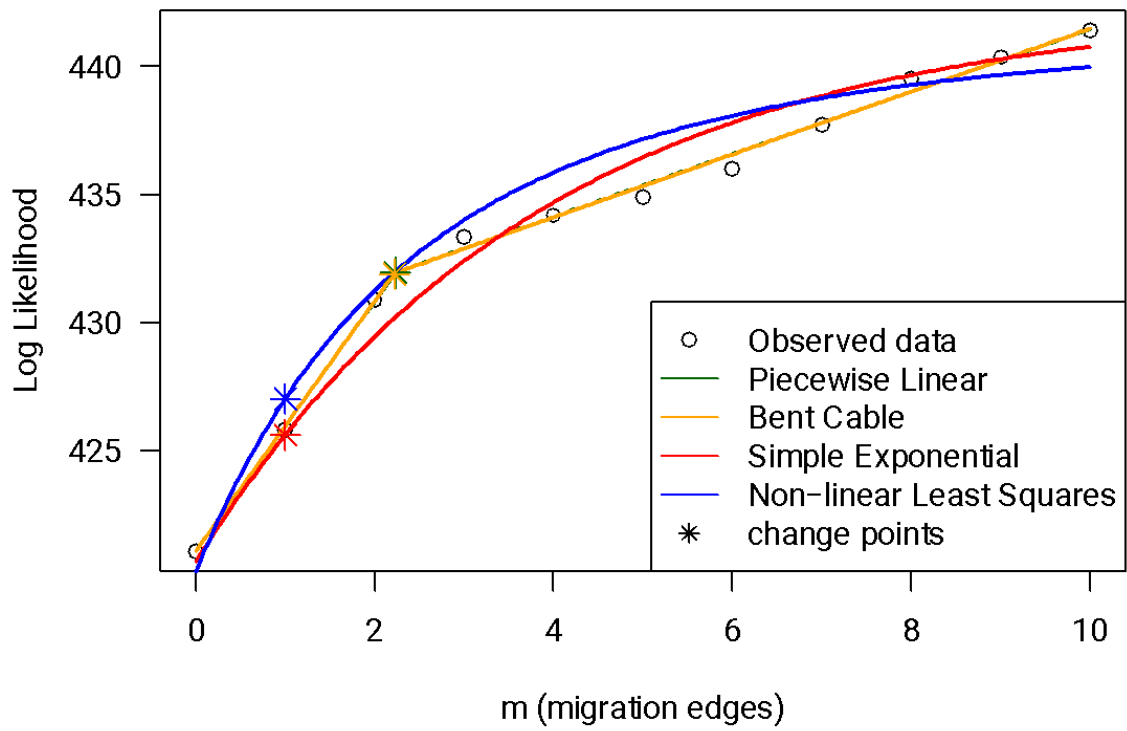


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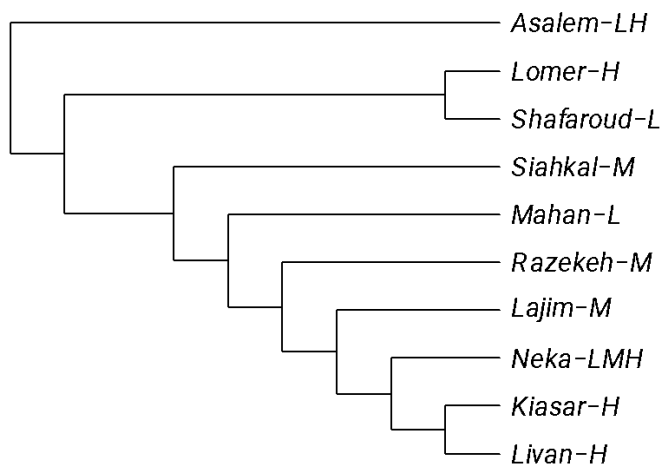
Residuals



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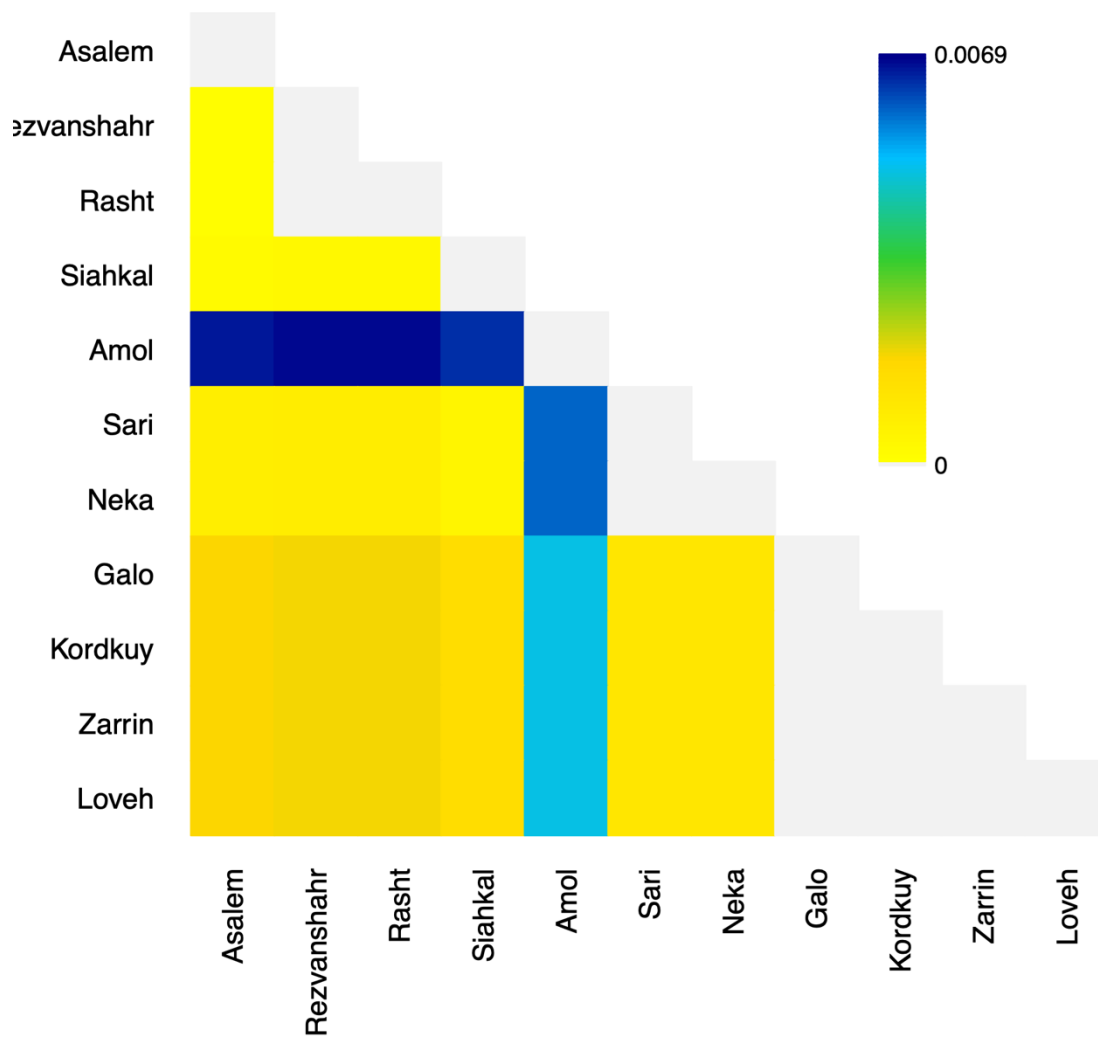
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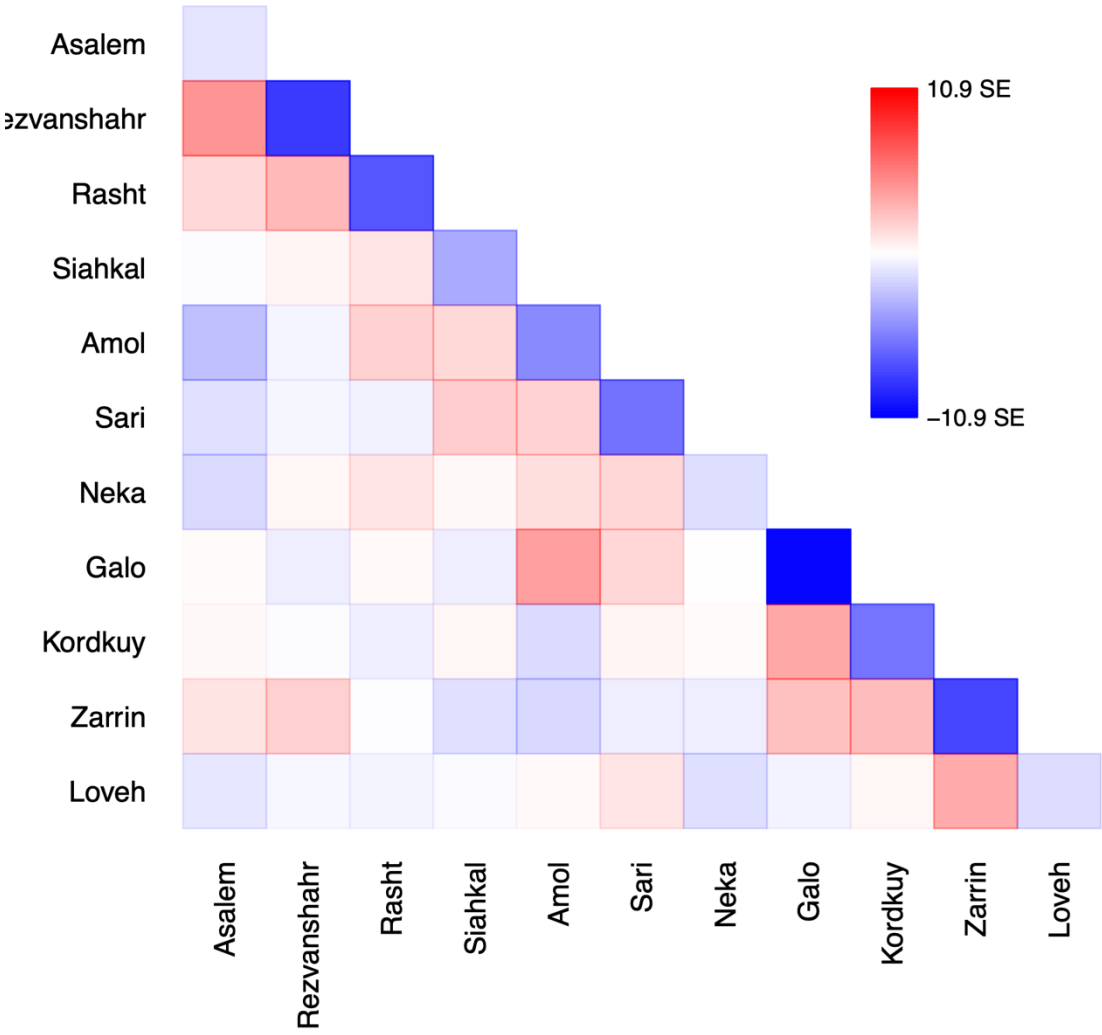
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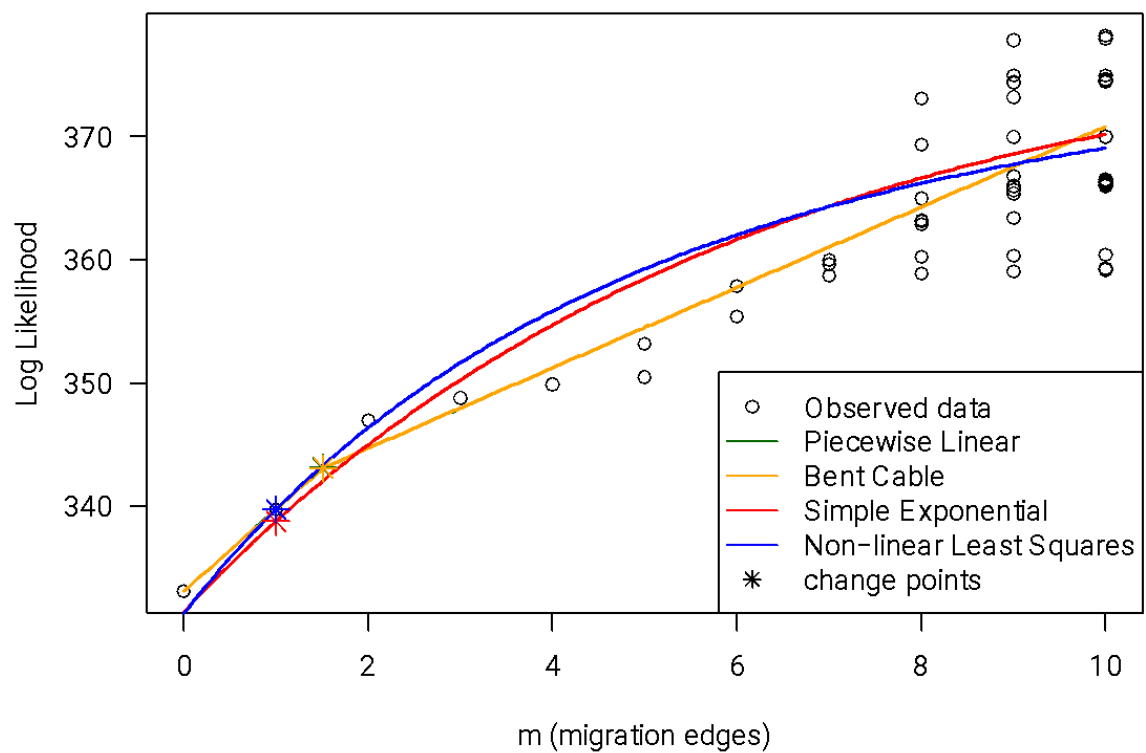
70 **Figure S6.2:** Residual, drift matrices, linear models and maximum likelihood tree of TreeMix
 71 analysis for *Fagus orientalis*.

Drift

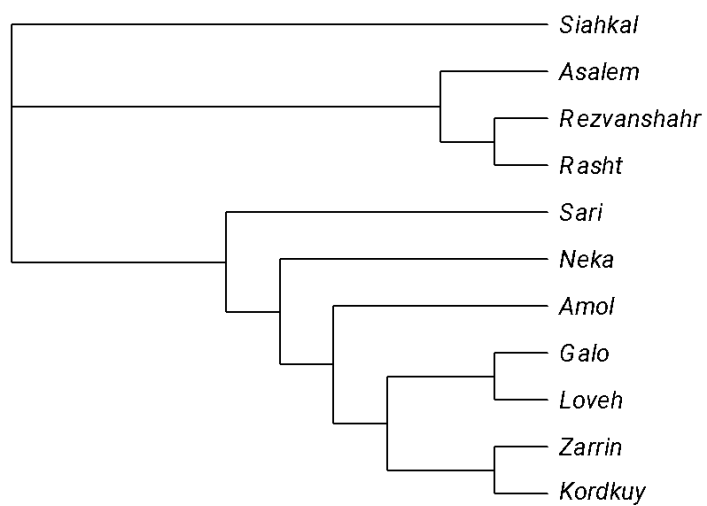


Residuals





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76 **Figure S6.3:** Residual, drift matrices, linear models and maximum likelihood tree of TreeMix
77 analysis for *Quercus castaneifolia*.
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