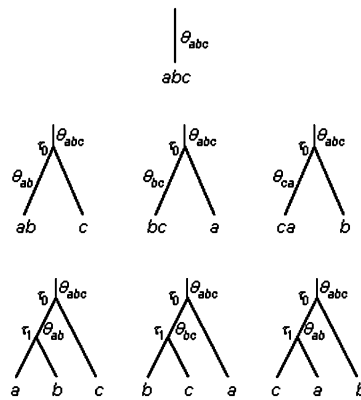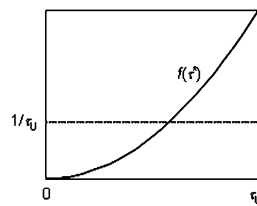# Supporting Information

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Fig. S1. A diagram to illustrate parameters in the general model of species delimitation and phylogenetic inference. For three individuals, *a*, *b*, and *c*, there are five species delimitations. One of them (*Top*) has one species, three have two species (*Middle*), and one has three species (*Bottom*). For the last species delimitation, there are three distinct phylogenies.

Fig. S2. The parabola density for proposing a new value τ^* for τ, with the uniform distribution (dotted line) shown for comparison.

Fig. S3. The gamma priors for θ's and for the τ for the root in analysis of the four real datasets.