

Figure S1: Traces of the age of the crown angiosperm node across replicate analyses (burnin phase only) for Beaulieu *et al.* (2015) (top) and Magallón *et al.* (2015) (bottom) data sets. Top: prior (lognormal priors), orange (n = 2); posterior (lognormal priors), blue (n = 3); prior (exponential priors), red (n = 2); posterior (exponential priors), green (n = 3). Bottom: prior (no angiosperm constraint), orange (n = 4); posterior (no angiosperm constraint), blue (n = 4); prior (all constraints), green (n = 4); posterior (all constraints), red (n = 3); note that this is mostly obscured by the green prior trace). All analyses were initialized with the age of crown angiosperms set at ~ 140 Ma.