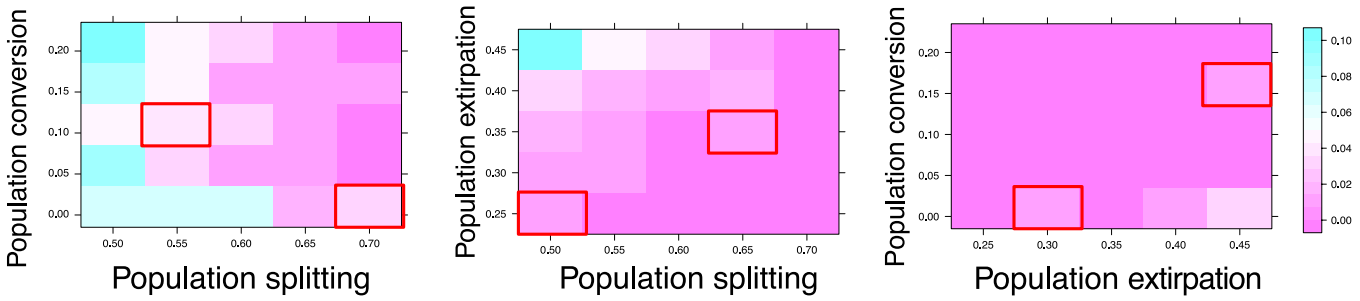

Supplementary Figure 1. Birth-death estimation of extinction rates (color blocks) of phylogenies generated from 125 combination of protracted speciation parameters (rates of population splitting, population conversion, and population extirpation). Red squares represent examples of similar estimated extinction rates based on phylogenies generated from different protracted speciation parameters. Their different placement across parameter space shows that very different mechanism (*e.g.,* different combinations of population splitting, conversion, and extinction rates) may underlie a single "extinction rate", as measured under traditional macroevolutionary birth-death models.