**Figure S5.** Ranked distribution of the observed phylogenetic diversity and convex hull area (calculated from the flower morphological scores) occupied by the species of Bignonieae occurring in the 94 communities studied. Different points represent communities located in different habitats: AMA = Amazonian Moist Forests; ATL = Atlantic Moist Forests; CEN = Central American Moist Forests; DRY = Tropical and Subtropical Dry Forests; DXS = Deserts and Xeric Shrublands; SAV = Tropical and Subtropical Grasslands, Savannas, and Shrublands.