



**Figure 4:** Eigenvector centrality values for host species in networks of *P. ramosa* (A), *B. paedophthorum* (B), and *S. cienkowskii* (C) for overlapping epidemics by infected host density, showing differences by parasite species and host species. Each point represents the centrality values for a host in a given site for a given parasite species. Centrality values varied significantly by host species for *P. ramosa* infected host density (A, Kruskal–Wallis test,  $p = 0.008$ ) and *B. paedophthorum* infected host density (B, Kruskal–Wallis test,  $p = 0.01$ ). Letters denote significant pairwise comparisons (see Table S1 for full list of significant host species comparisons). For each panel, the y-axis is arranged from host species with the highest median centrality (top) to the lowest (bottom), so the order of host species changes. See Figure S1 for eigenvector centrality calculated based on prevalence vs. infected host density.