

Supplementary figures to:

How hosts taxonomy, trophy and endosymbionts shape microbiome diversity in beetles

MICROBIAL ECOLOGY

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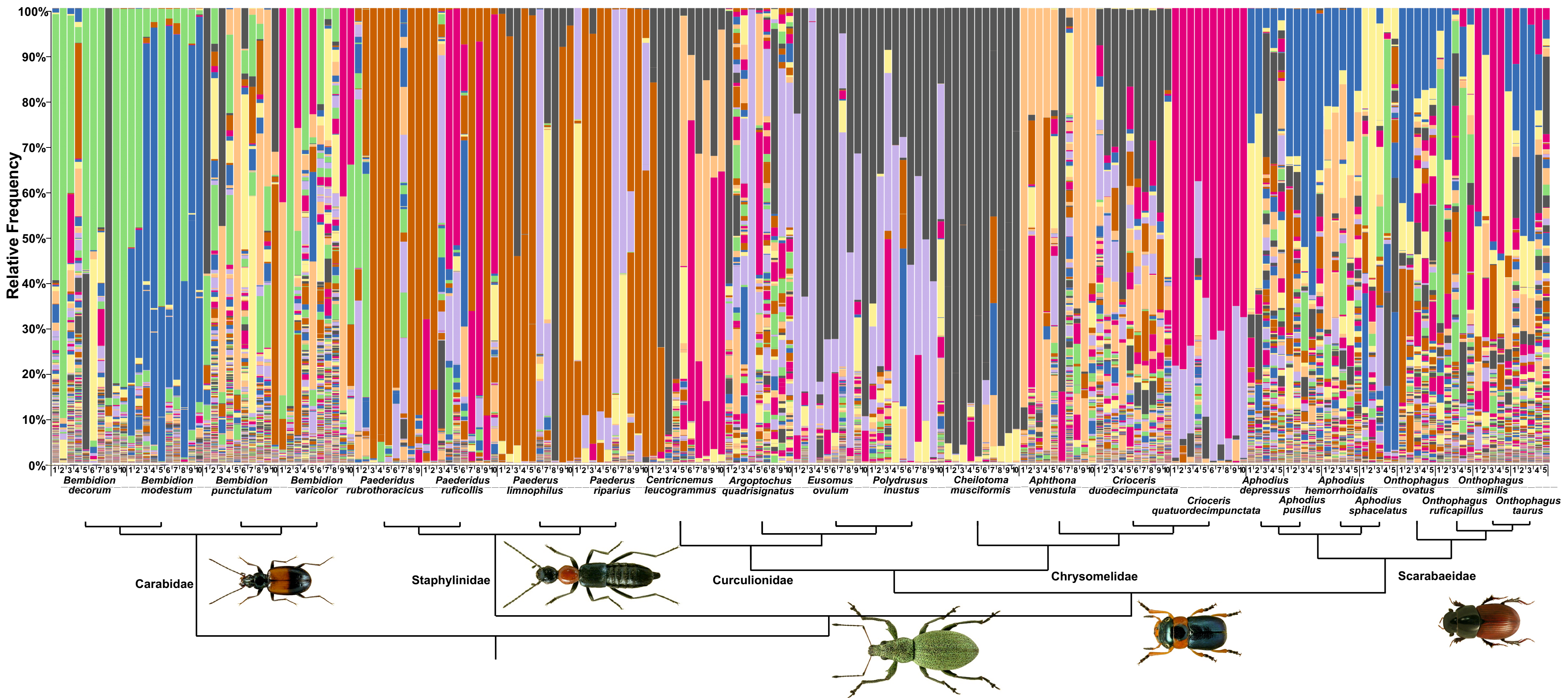
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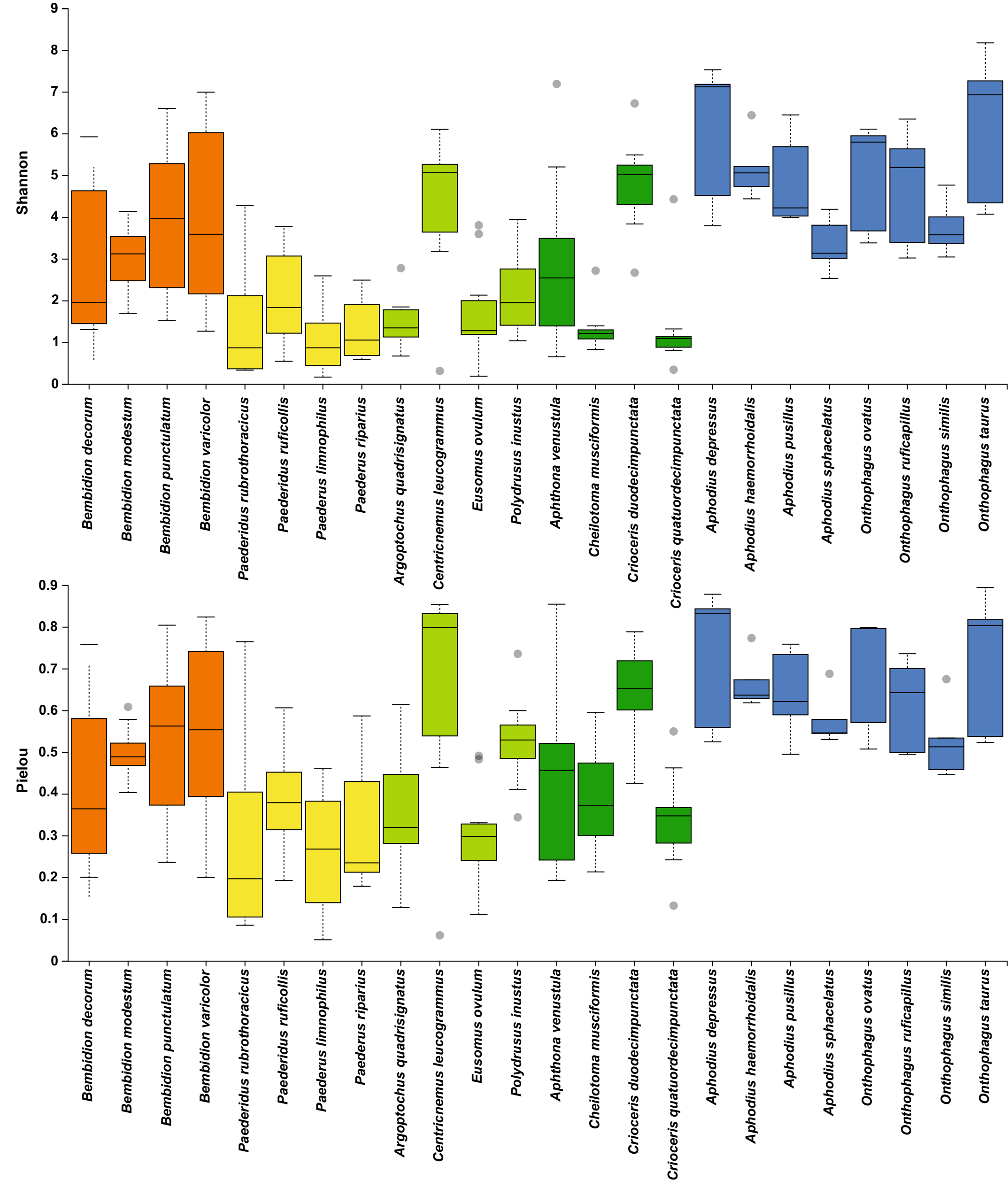
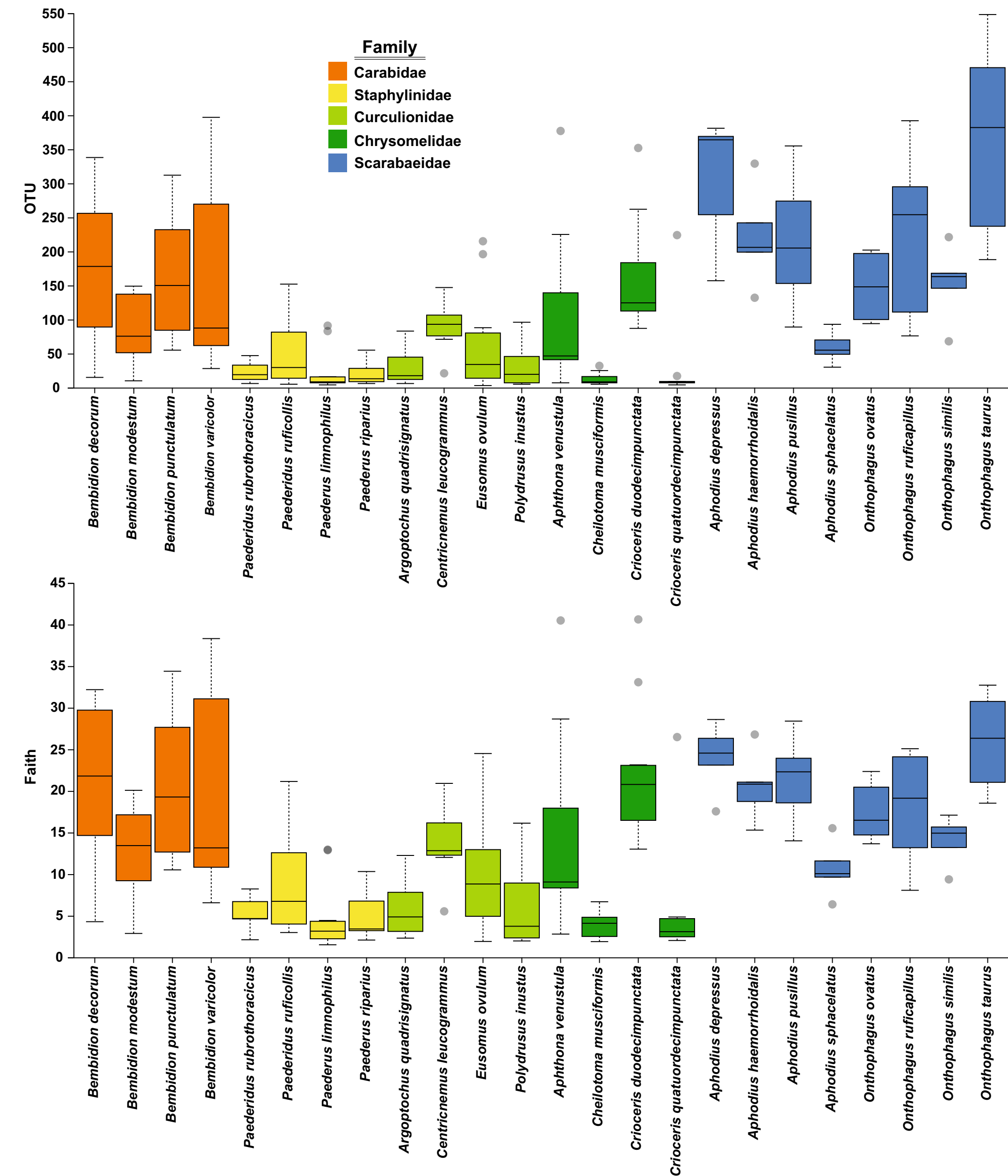
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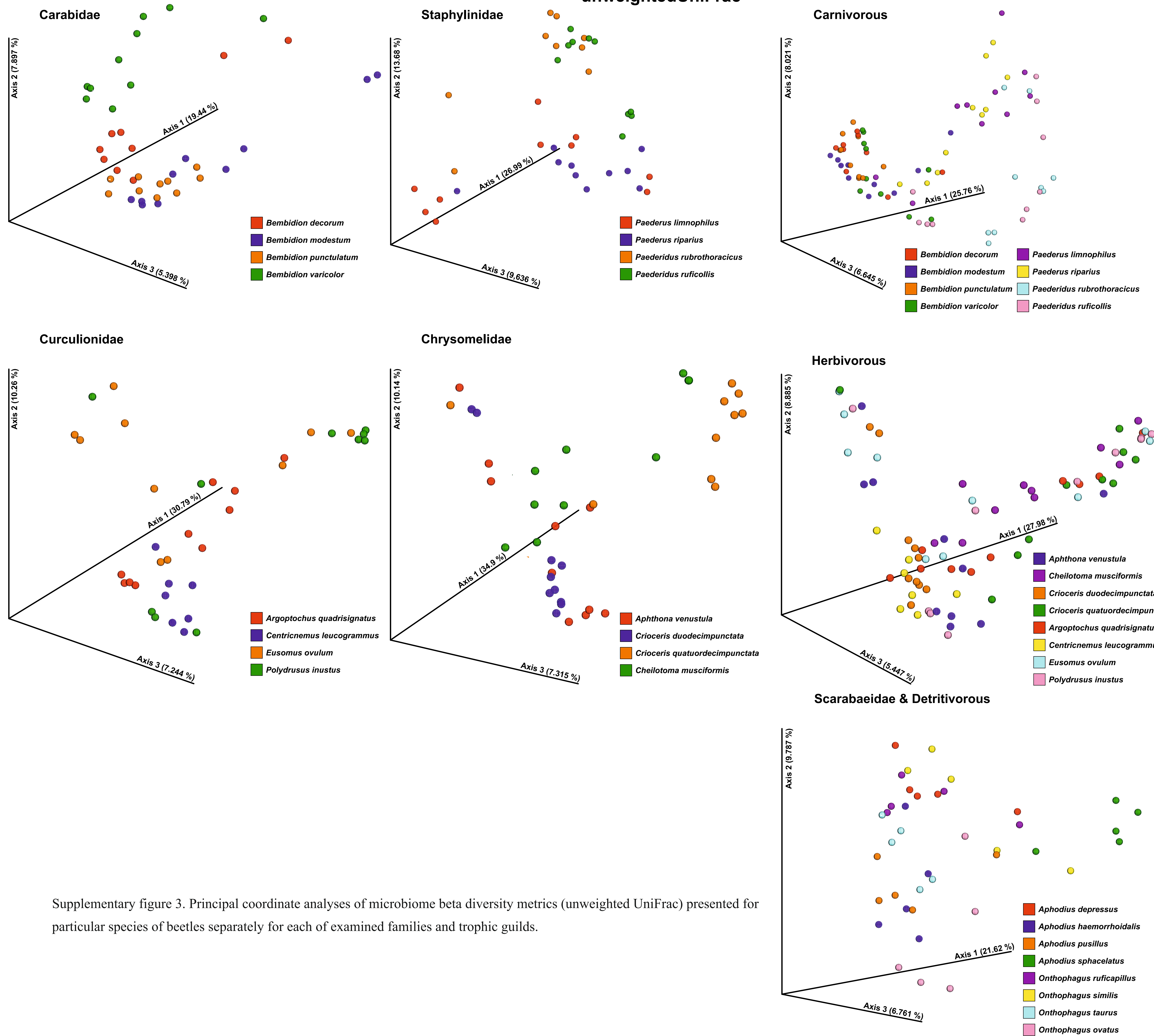


Supplementary figure 1. The plot of the relative share of bacteria in examined specimens of 24 species of beetles showed in relation to a simplified phylogenetic tree of examined beetles. Photographs of exemplary infected beetle hosts are reprinted from ICONOGRAPHIA COLEOPTERORUM POLONIAE under a CC BY license, with permission (© Copyright by Prof. Lech Borowiec, Wrocław 2007–2018, Department of Biodiversity and Evolutionary Taxonomy, University of Wrocław, Poland)).

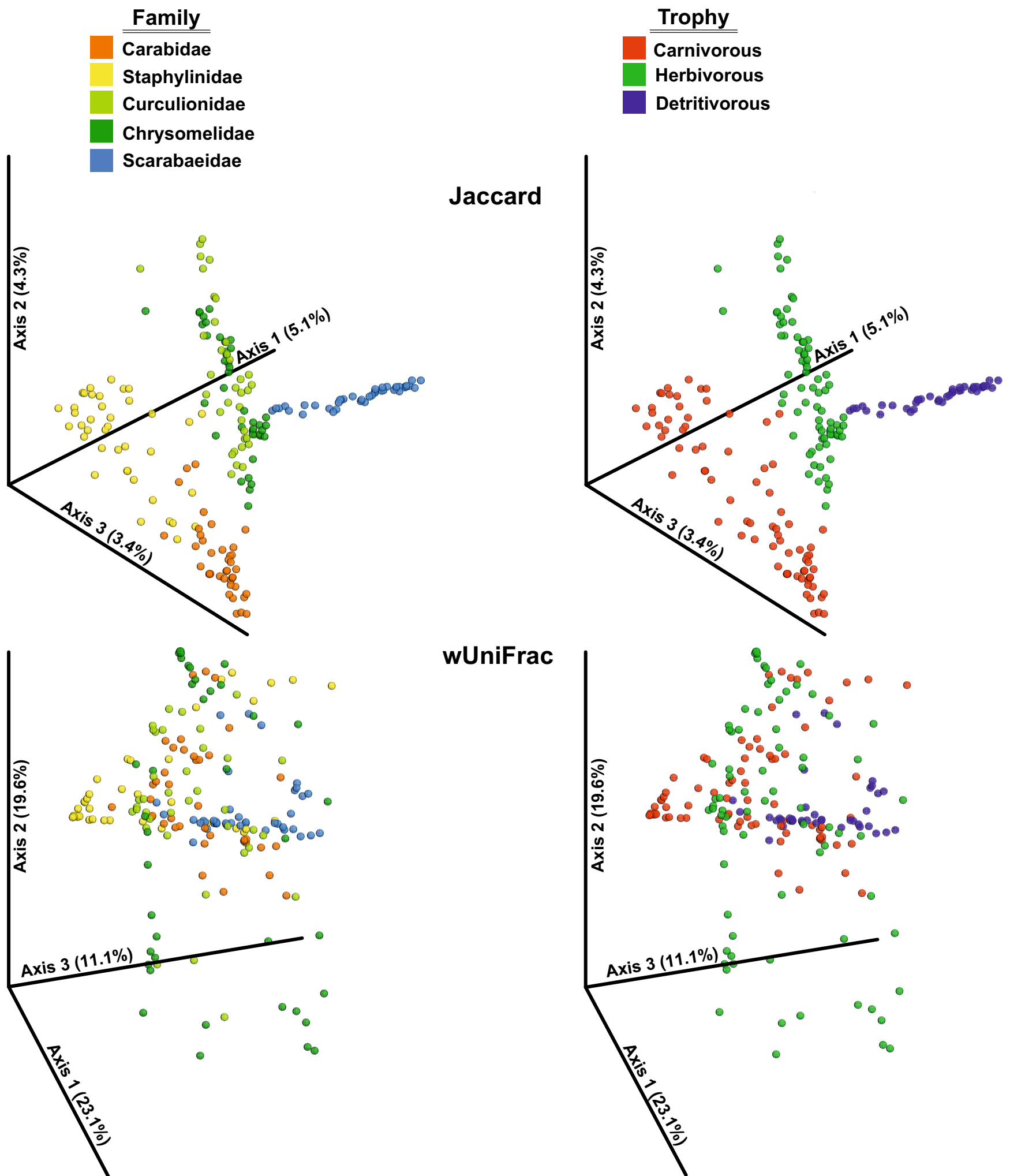


Supplementary figure 2. Box-plots of microbiome alpha diversity metrics (observed Operational Taxonomic Units - OTU, Shannon's diversity index - Shannon, Faith's Phylogenetic Diversity - Faith and Pielou's measure of species evenness - Pielou) presented for particular species of beetles.

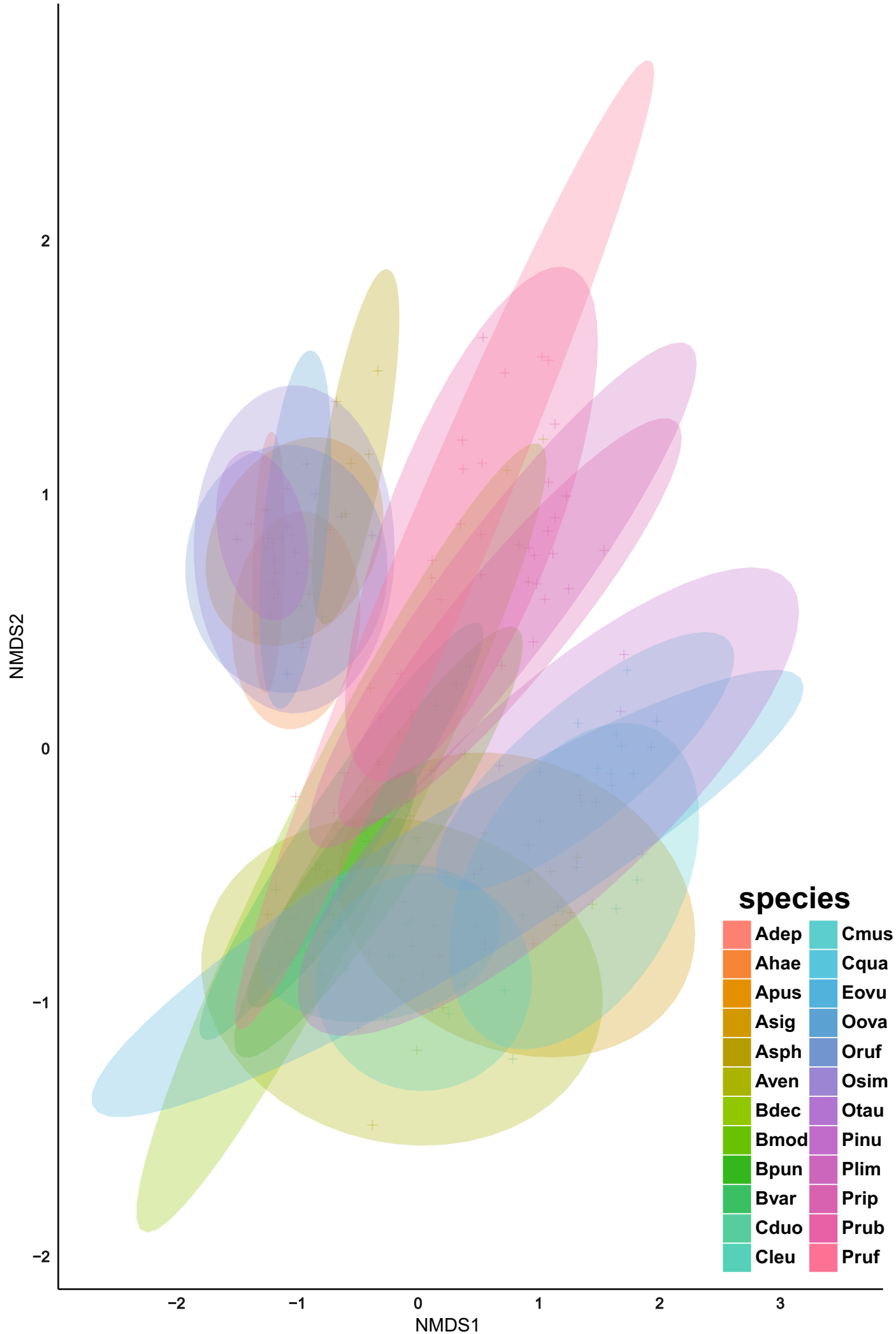
unweightedUniFrac



Supplementary figure 3. Principal coordinate analyses of microbiome beta diversity metrics (unweighted UniFrac) presented for particular species of beetles separately for each of examined families and trophic guilds.



Supplementary figure 4. Principal coordinate analyses of microbiome beta diversity metrics (Jaccard distance – Jaccard and weighted UniFrac - wUniFrac) presented for beetles on the level of families and trophic guilds.



Supplementary Figure 5. Non-metric multidimensional scaling plot of Bray-Curtis dissimilarities between microbiomes found in beetle individuals belonged to particular species. Ellipses – 95% confidence intervals.