

Supplementary Figures

Rapid bacterial community changes during vermicomposting of grape marc derived from red winemaking

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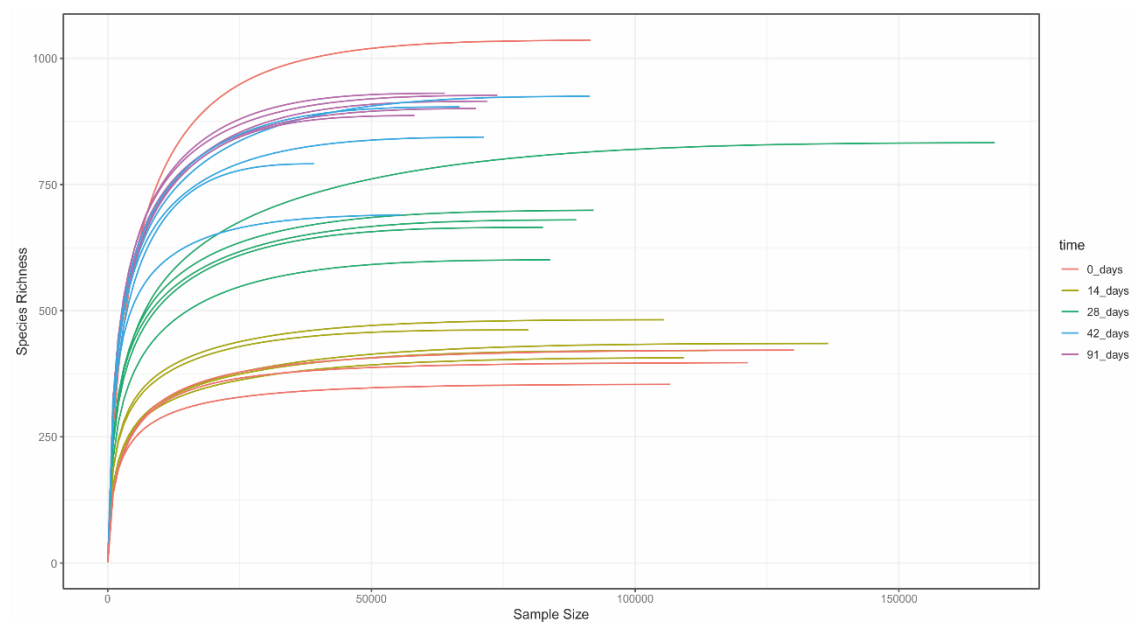


Figure S1 Rarefaction curves showing the number of amplicon sequence variants (ASVs) found in each sample during vermicomposting of grape marc derived from the red winemaking process of the grape variety Mencía. These curves indicate that the sequencing depth was optimal for all of the samples in the full data set.

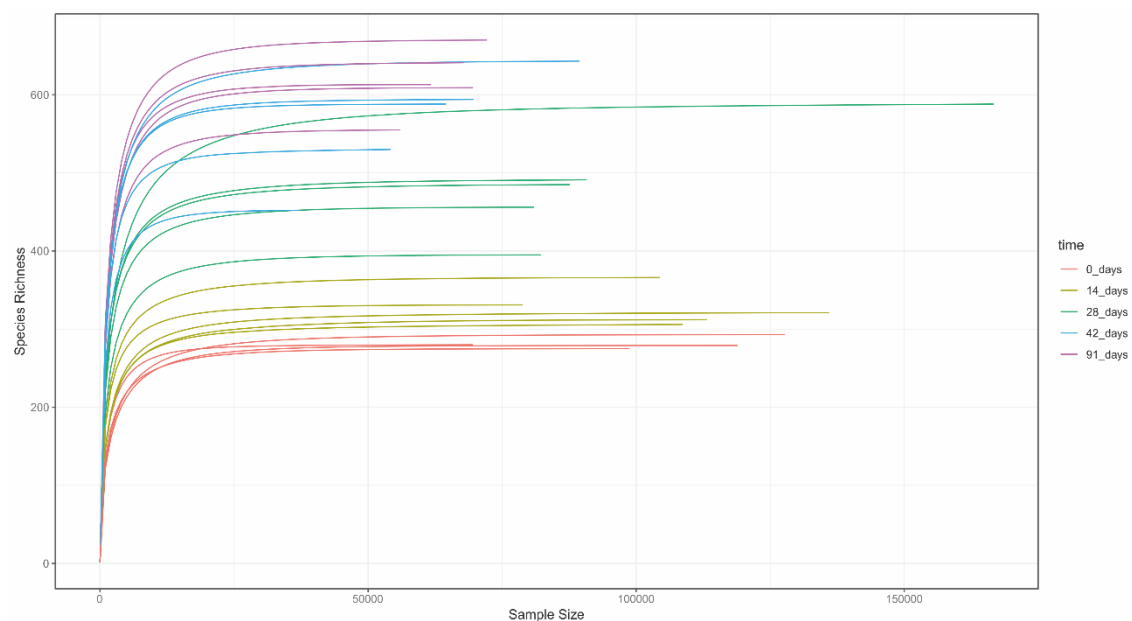


Fig. S2 Rarefaction curves showing the number of amplicon sequence variants (ASVs) found in each sample during vermicomposting of grape marc derived from the red winemaking process of the grape variety Mencía. These curves indicate that the sequencing depth was optimal for all of the samples in the filtered data set.

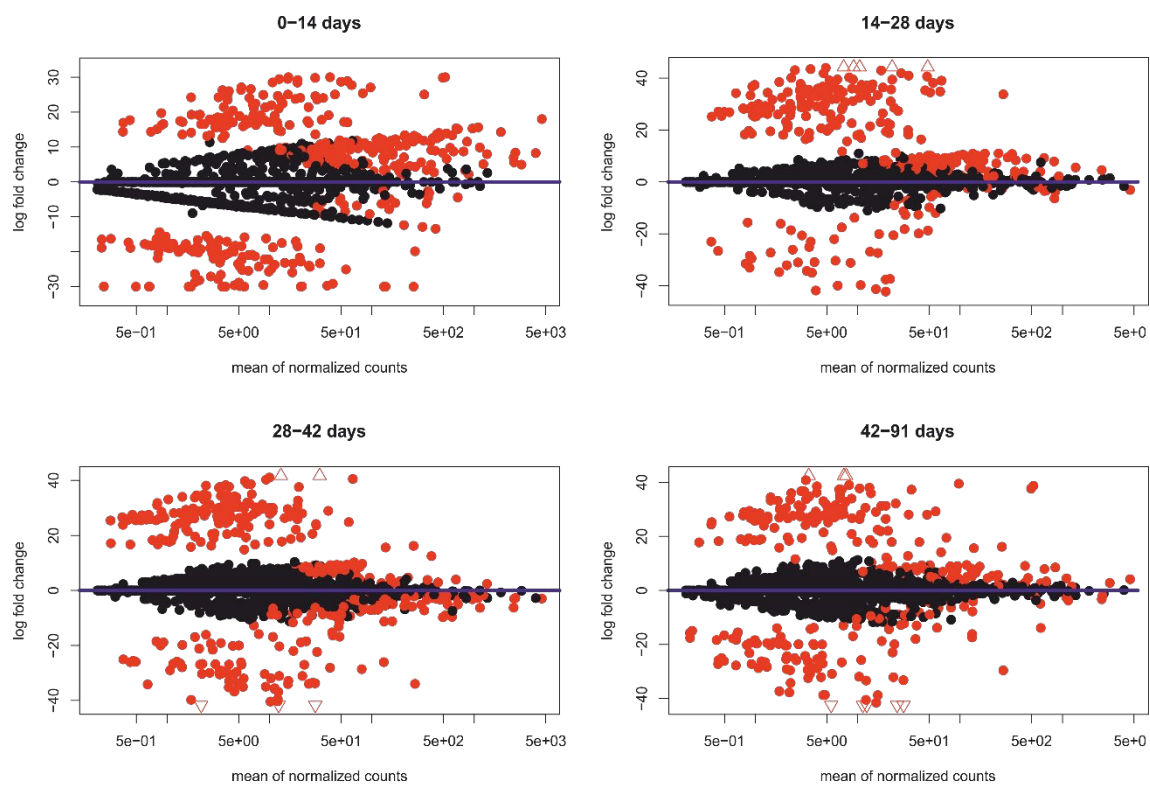


Fig. S3 MA-plots of the estimated fold change in ASVs over average expression strength during vermicomposting of grape marc derived from the red winemaking process of the grape variety Mencía. Small triangles at the top and bottom of the plots indicate points that would fall outside of the plotting window.



Fig. S4 Boxplots showing the changes in the normalized abundance of bacterial classes during vermicomposting of grape marc derived from the red winemaking process of the grape variety Mencía. Abundance changes are expressed as \log_2 fold. A specific colour is given to the name of the different bacterial classes according to the phylum they belong to.

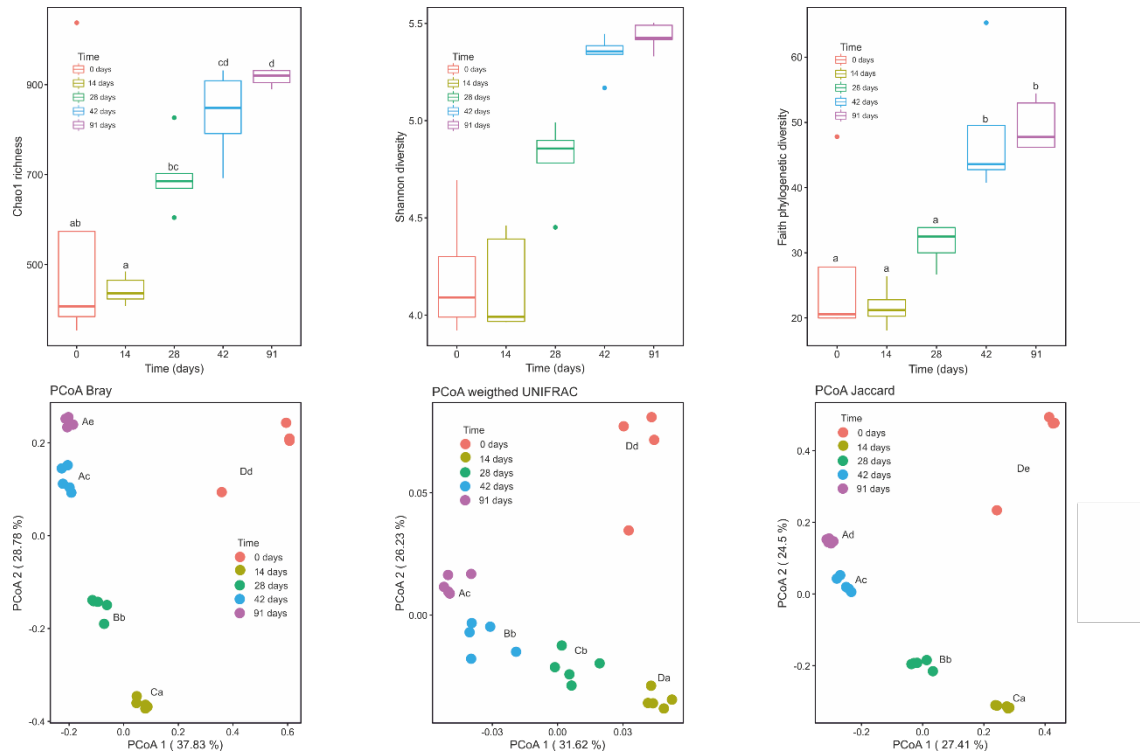


Fig. S5 Additional estimates of bacterial α -diversity and β -diversity during vermicomposting of grape marc derived from the red winemaking process of the grape variety Mencía. α -diversity increased over time regardless of estimation method, including Chao1 richness (A), Shannon diversity (B), and Faith phylogenetic diversity (C). Letters in (a)-(c) denote significant differences between the different stages of the vermicomposting process (Tukey HSD test). Principle coordinate analysis with Bray-Curtis (D), weighted UniFrac (E), and Jaccard (F) showed significant differences between stages of vermicomposting. Different capital and lowercase letters indicate significant differences between the time points in PCoA1 and PCoA2 scores, respectively.