## Supplementary Material

Global-scale structure of the eelgrass microbiome

Ashkaan K Fahimipour<sup>1,\*</sup>, Melissa R Kardish<sup>2</sup>, Jonathan A Eisen<sup>2,3,4</sup>, Jenna M Lang<sup>3</sup>, Jessica L Green<sup>1,5</sup>, and John J Stachowicz<sup>2</sup>

<sup>1</sup>Institute of Ecology and Evolution, University of Oregon, Eugene, OR <sup>2</sup>Dept. of Evolution and Ecology, University of California, Davis, CA <sup>3</sup>Genome Center, University of California, Davis, CA <sup>4</sup>Medical Microbiology and Immunology, University of California, Davis, CA <sup>5</sup>Santa Fe Institute, Santa Fe, NM

## Supplementary Figure

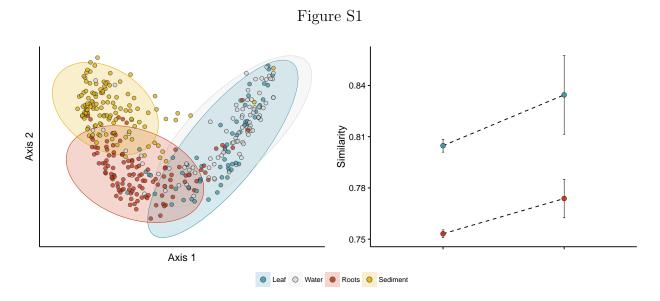


Fig. S1. Results of β-diversity analysis of unweighted UniFrac distances (Lozupone and Knight, 2005) are qualitatively similar to those of Canberra distances (compare with Fig. 1 in main text). (Left panel) Ordination plots show results of a 2-dimensional PCoA. Colors are the same as in Fig. 1 in the main text. Ellipses represent group-specific 95% confidence intervals assuming a multivariate t-distribution. (Right panel) Comparisons of host-environment phylogenetic similarities within- versus between seagrass beds. Points represent mean similarities between leaves and water (blue points), and roots and sediment (red points)  $\pm$  SEM. Patterns in phylogenetic diversity within- versus between seagrass beds followed the same qualitative patterns as compositional diversities, but were statistically non-significant (P = 0.18 for leaves; P = 0.19 for roots). This suggests that eelgrass leaf and root microbiomes were only marginally more phylogenetically related to their adjacent environments compared to all others.

## References

Lozupone, C. and Knight, R. (2005). Unifrac: a new phylogenetic method for comparing microbial communities. *Applied and environmental microbiology*, 71(12):8228–8235.