

Supplementary Table and Figures

Milk oligosaccharide driven persistence of *Bifidobacterium pseudocatenulatum* modulates local and systemic microbial metabolites upon synbiotic treatment in conventionally colonized mice

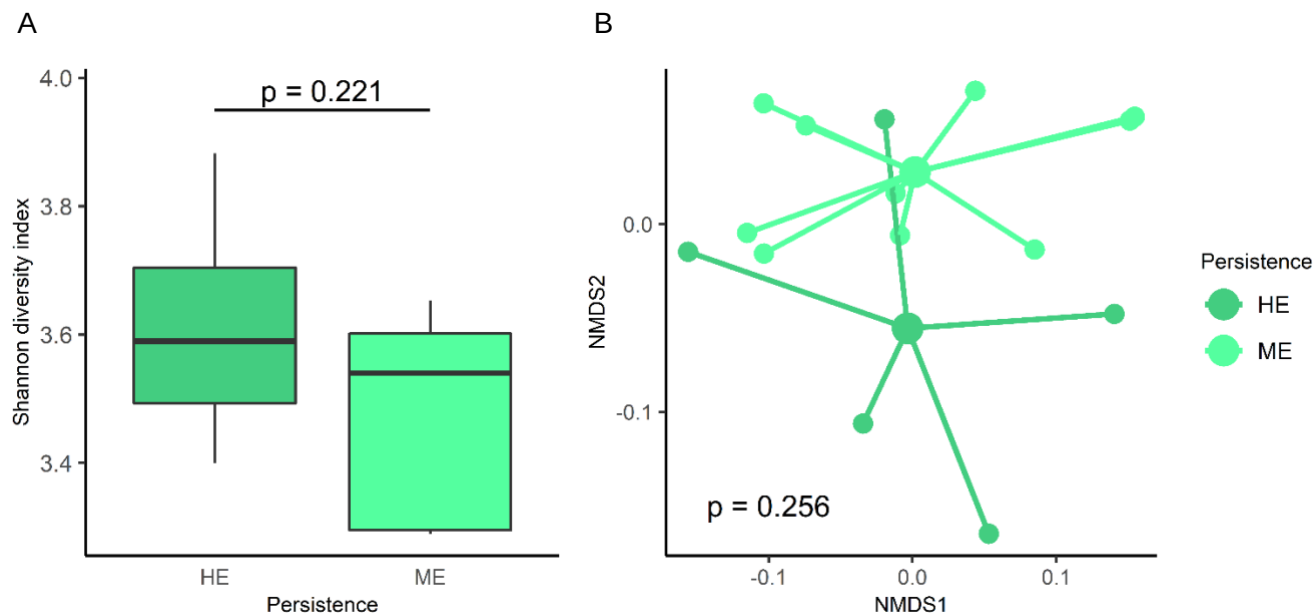
Jules A. Larke^{1*}, Britta E. Heiss^{2*}, Amy M. Ehrlich³, Diana H. Taft², Helen E. Raybould³, and David A. Mills², Carolyn M. Slupsky^{1,2}

¹Department of Nutrition ²Department of Food Science and Technology, ³Department of Anatomy, Physiology, and Cell Biology, School of Veterinary Medicine, University of California, Davis, Davis, CA, USA

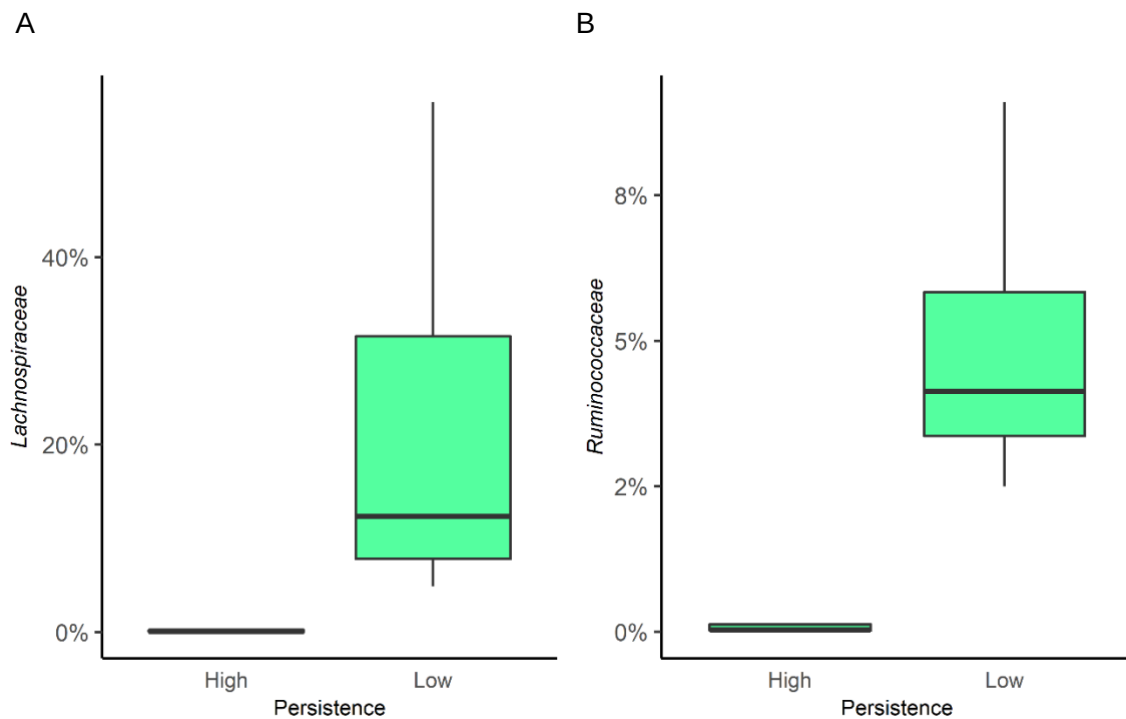
Supplementary Table 1. Pairwise comparisons* of weighted UniFrac measures between experimental trials at baseline.

	First Exp. Trial	Second Exp. Trial
Second Experimental Trial	0.021	
Third Experimental Trial	0.021	0.148

*Comparisons were evaluated using PERMANOVA and FDR adjustment.
P-values with statistical significance are denoted in bold.



Supplementary Figure 1. Baseline differences not significant between high and low bifidobacteria categorizations of synbiotic treated mice. (A) Shannon α -diversity index values at baseline for synbiotic treated mice grouped as highly enriched (HE) ($n = 4$) and moderately enriched (ME) ($n = 7$) bifidobacteria persistence; and (B) NMDS plot of β -diversity index weighted unifracs for high and low bifidobacteria groups at baseline. Boxplots represent medians and interquartile range (IQR) with whisker end points equal to the maximum and minimum values below or above the median at 1.5 times the IQR.



Supplementary Figure 2. Relative abundance of *Lachnospiraceae* and *Ruminococcaceae* at the final time point for 2'-FL treated mice grouped as highly enriched (HE) (n = 4) and moderately enriched (ME) (n = 7) *Bifidobacteriaceae* based on median relative abundance (50.5%). Boxplots represent medians and interquartile range (IQR) with whisker end points equal to the maximum and minimum values below or above the median at 1.5 times the IQR.