

Supplementary Materials: The following are available online at www.mdpi.com/xxx, Figure S1: title, Table S1: title, Video S1: title.

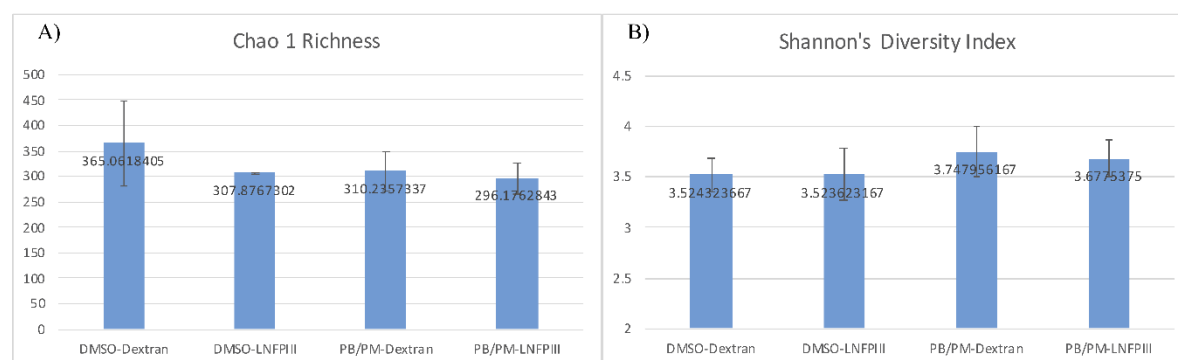


Figure S1: Changes in (A) richness (Chao1 richness) and (B) diversity (inverse of Simpson's diversity index) in the mice exposed to either DMSO-Dextran, DMSO-LNFP III, PB/PM-Dextran, and PB/PM-LNFP III in the long-term (chronic) study.

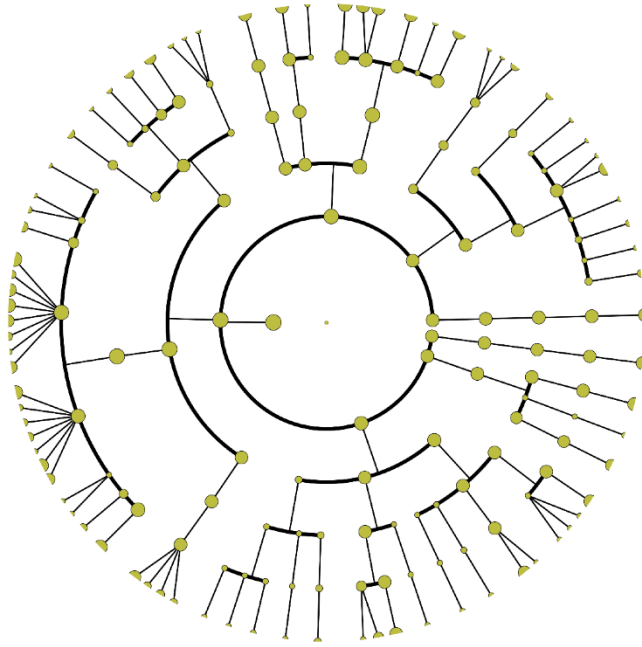


Figure S2. Linear discriminant analysis (LDA) effect size (LEfSe; Kruskal-Wallis [$P < 0.05$]; Pairwise Wilcoxon [$P < 0.05$]; logarithmic LDA score > 2.0) of the fecal microbiota of mice exposed to either DMSO-Dextran or PB/PM-Dextran after 6 h post GWI exposures. As no taxa were altered, no groups are highlighted and no labels are provided.

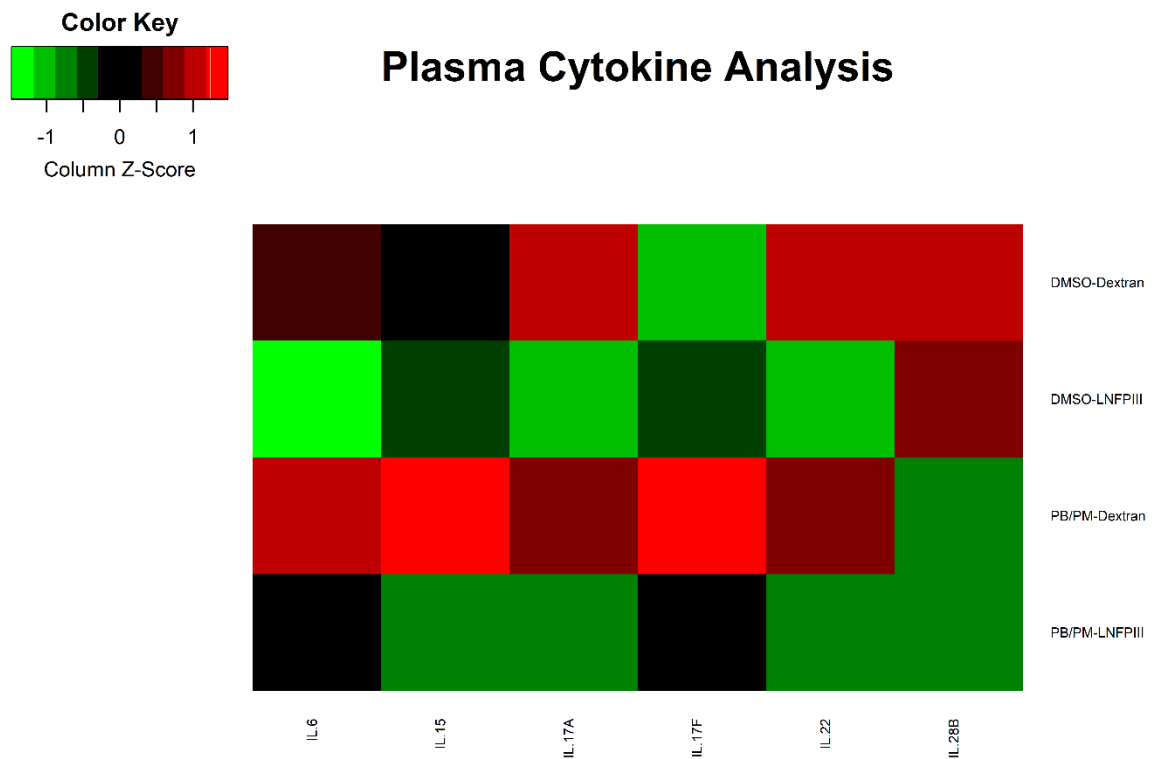


Figure S3. Heat map of selected plasma cytokines. Heat map representing selected cytokines in mice exposed to DMSO-Dextran (n=6), DMSO-LNFPIII (n=6), PB/PM-Dextran (n=7), and PB/PM-LNFPIII (n=7). Red and green color indicates increases and decreases, respectively, of plasma cytokine levels. Color key with Z-scores is located on the upper left.