

Figure S1. Flow cytometry analysis of T- and B-cell populations in spleen and MLN. On day 31, the spleens and MLNs were collected and cell suspensions were obtained. Representative CD4⁺ T-cell (A), CD8⁺ T-cell (B) and B-cell (C) plots are shown. Percentages of regulatory T-cells (D), Th17 (E), Th1 (F), activated CD8⁺ T-cells (G) were determined in the CD4+ or CD8+ lymphocyte populations in the spleen. The percentage of CD19⁺B220⁺ B-cells (H) in the spleen is also shown. Respectively, T- and B-cell populations for MLN are shown (I-M). Data are represented as mean \pm SEM of sham ($n = 3$) and vaccinated mice ($n = 9$). Significant differences are shown as * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$.

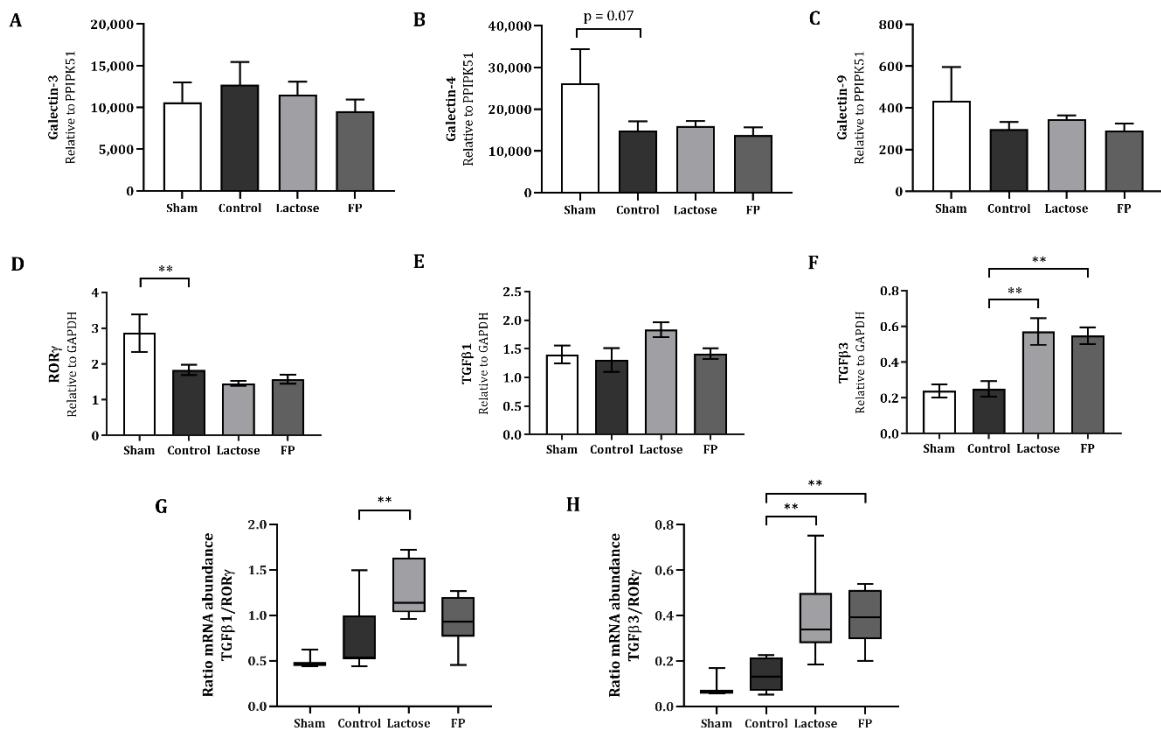


Figure S2. Relative mRNA expression in the colon. Relative mRNA expression of galectin-3 (A), -4 (B), -9 (C), ROR γ (D), TGF β 1 (E) and TGF β 3 (F) were measured in the colon using RT-qPCR. TGF β 1/ROR γ ratio (G) and TGF β 3/ROR γ ratio (H) were calculated to represent regulatory/Th17 balance in the colon. Data are represented as mean \pm SEM of sham ($n = 3$) and vaccinated mice ($n = 9$). Significant differences are shown as ** $p < 0.01$.

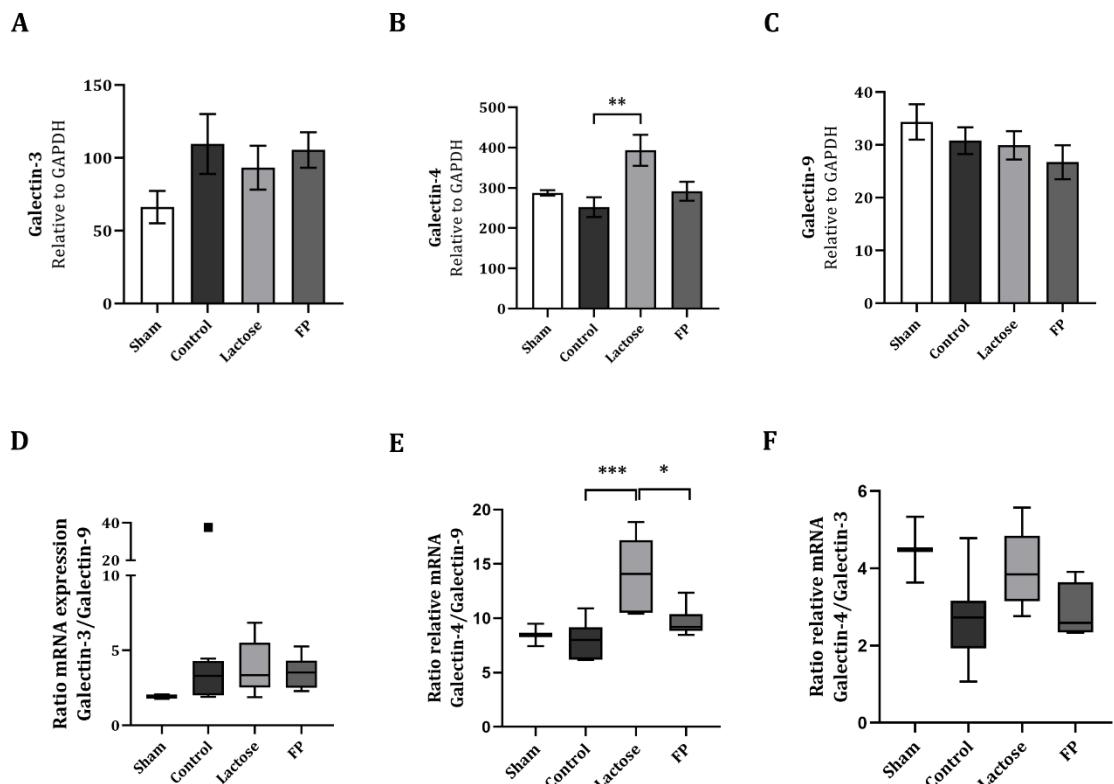


Figure S3. Ratio mRNA expression and serum galectins. Relative mRNA expression of galectin-3 (A), -4 (B), -9 (C), ROR γ (D), TGF β 1 (E) and TGF β 3 (F) were measured in the ileum using RT-qPCR. TGF β /ROR γ ratios were calculated to represent regulatory/Th17 balance in the colon. Data are represented as mean \pm SEM of sham ($n = 3$) and vaccinated mice ($n = 9$). Significant differences are shown as * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$.

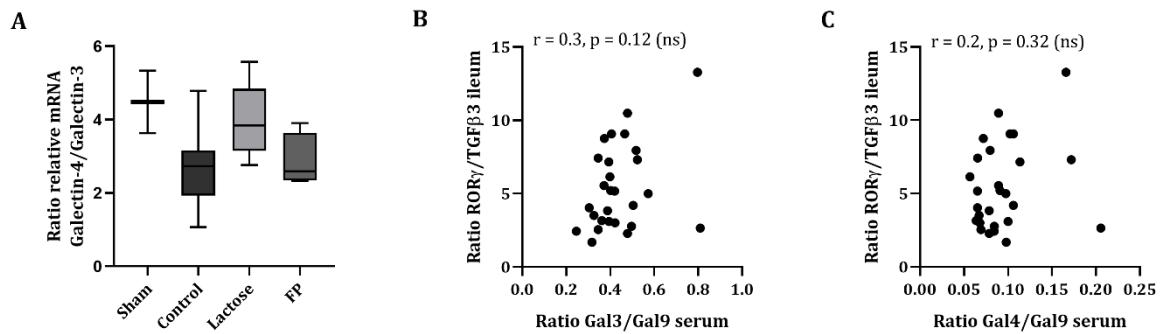


Figure S4. Ratio galectin-4/galectin-3 mRNA in ileum and correlations of ROR γ /TGF β 3 and serum galectins. The ratio of galectin-4/galectin-3 mRNA expression (A) is shown. Additionally, ROR γ /TGF β 3 ratio in ileum were correlated to serum galectin3/galectin-9 ratio (B) and to serum galectin-4/galectin-9 ratio (C) using Spearman correlation. Data are represented as mean \pm SEM of sham ($n = 3$) and vaccinated mice ($n = 9$).