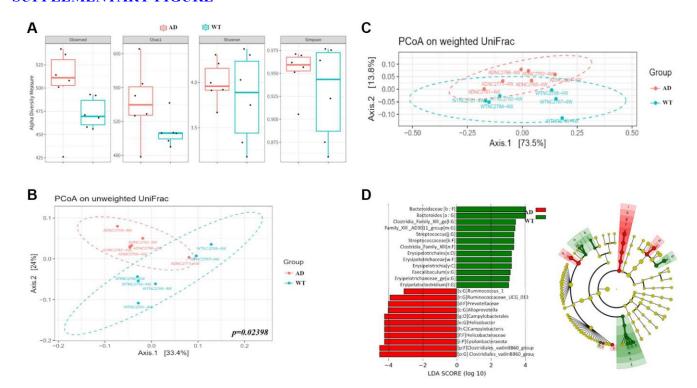
SUPPLEMENTARY FIGURE



Supplementary Figure 1. Fecal microbiome distribution analysis in wild-type (WT) and AD mice. The feces of rats treated with and without plasmon-activated (PAW) was prepared for fecal microbiotic profiling by high-throughput sequencing of the 16s rRNA gene with the Illumina MiSeq system. (A) Alpha-diversity of PAW treated samples and untreated controls. Principal coordinate analysis (PCoA) plot based on (B) unweighted or (C) weight UniFrac distances of omeprazole treated samples and untreated controls. Significant differences in beta-diversity were evaluated with permutational multivariate analysis of variance (vegan::adonis, 1000 permutations) and beta-dispersion was quantified with beta-disper (vegan::beta-disper, 1000 permutations). Both indices achieved adonis p < 0.05 and beta-disper p > 0.05. (D) Linear discriminant analysis (LDA) effect size (LEfSe) analysis of gut microbiotic changes in rats with long-term omeprazole treatment. Significant biomarkers were defined as taxa with an LDA score (log10) of ≥ 2 . (b) Significant taxa were highlighted on the cladogram. Abbreviations: P: phylum; C: class; O: order; F: family; G: genus.