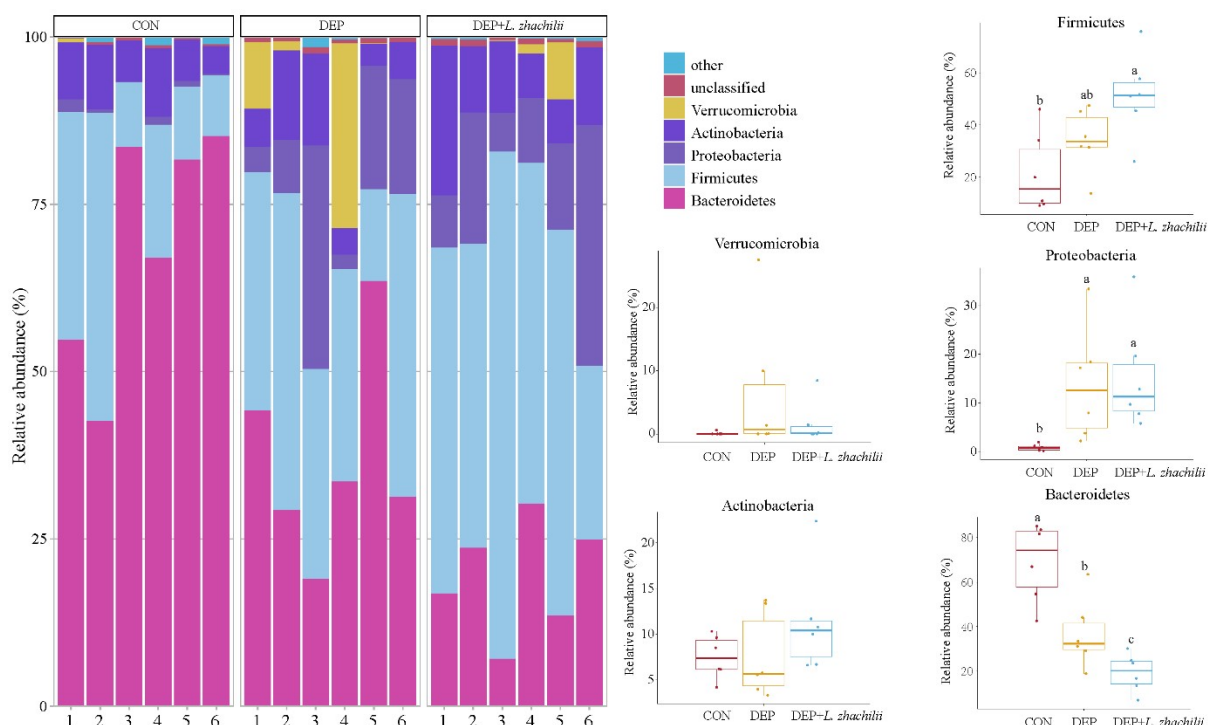


1 **Supplementary materials**

2 **Fig. S1.** Phylum-level composition of the gut microbiome in susceptible mice. Major
3 (>1% relative abundance) phyla in fecal samples from susceptible mice (A). Relative
4 abundance of the dominant *Bacteroidetes*, *Firmicutes*, *Proteobacteria*, *Actinobacteria*,
5 and *Verrucomicrobia* phyla in the gut microbiota of susceptible mice. CON, control
6 mice gavage with VEH; DEP, susceptible mice gavage with VEH; DEP + *L. zhachilii*,
7 susceptible mice gavage with *Lactobacillus zhachilii* HBUAS52074^T (B).

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18 Table S1 Gene-specific primer sequences for RT-qPCR

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Gene	Forward (5' - 3')	Reverse (5' - 3')
<i>TLR4</i>	GCAGAAAATGCCAGGATGATG	AACTACCTCTATGCAGGGATTCAAG
<i>TNF-α</i>	TAGCCAGGAGGGAGAACAGA	TTTCTGGAGGGAGATGTGG

<i>IFN-γ</i>	CATCAGCAACAACATAAGCGTCA	CGCTGGACCTGTGGGT
<i>IL-6</i>	ATTTCCTCTGGTCTTCTGG	CTGGCTTTGTCTTCTTGT
<i>Arg1</i>	GAACCCAACCTTTGGGAAGAC	GGAGAAGGCGTTGCTTAGTT
<i>β-actin</i>	GGCTGTATTCCCCTCCATCG	CCAGTTGGTAACAATGCCATGT

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21 TLR4: Toll-like receptor 4; TNF- α , Tumor necrosis factor- α ; **IFN- γ : Interferon-**

22 **gamma**; IL-6: Interleukin 6; Arg1: **Arginase 1**

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