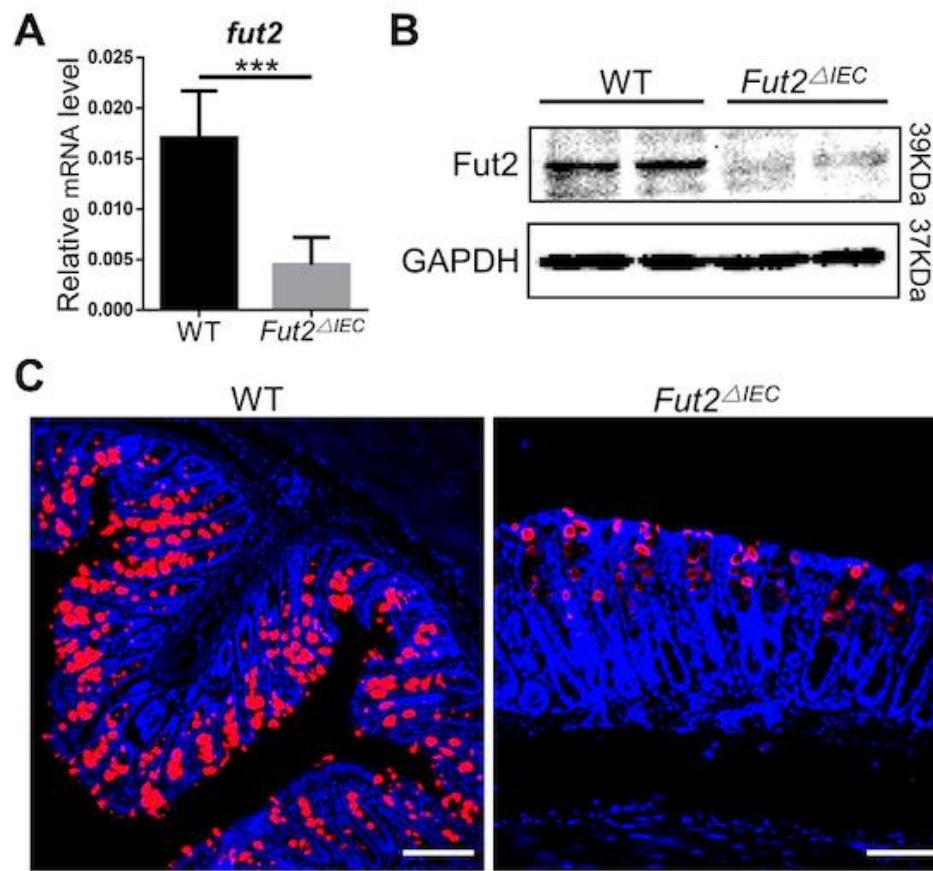


Supplementary Table.1

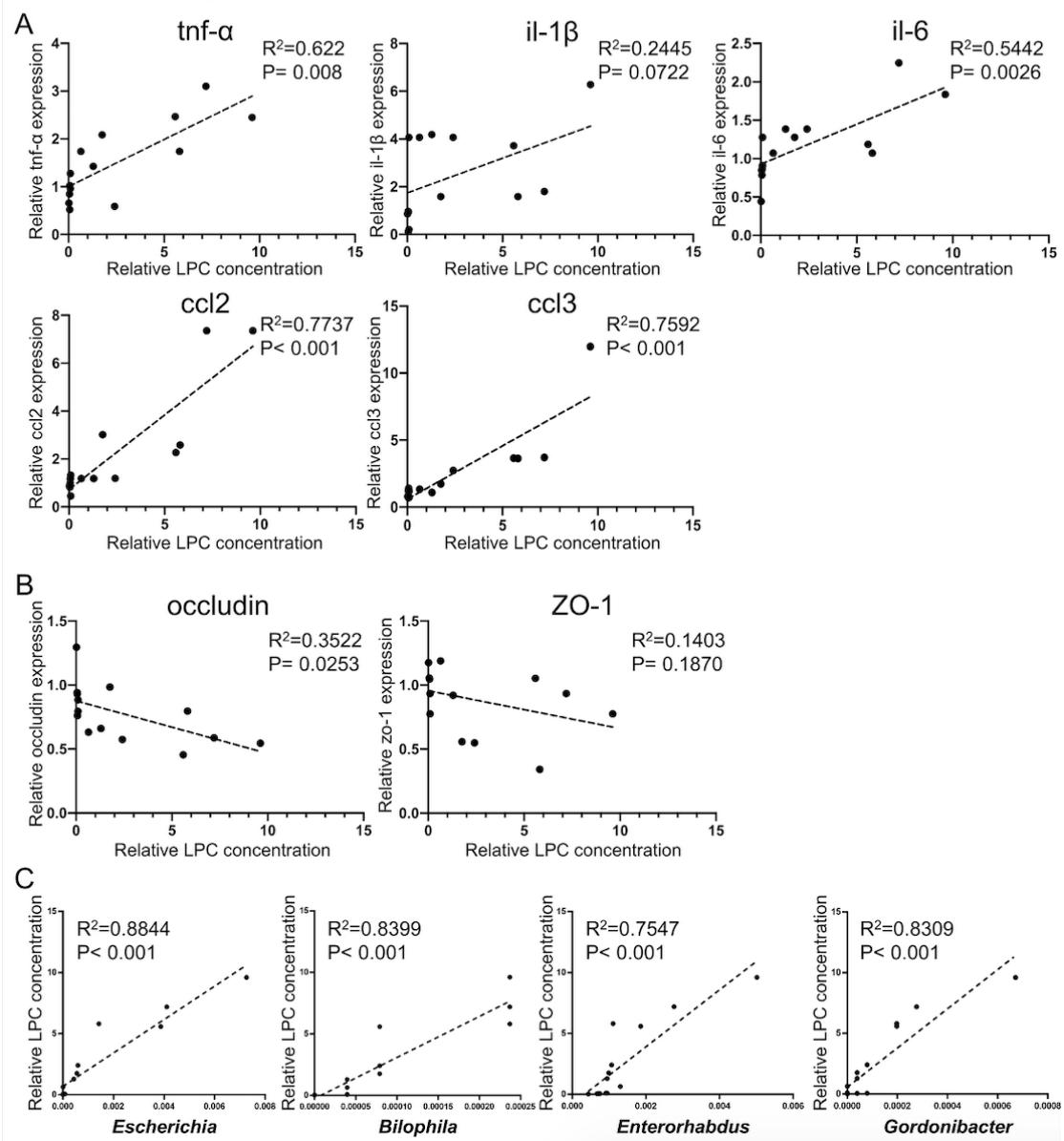
Gene	Forward primer (5'- 3')	Reverse primer(5'- 3')
<hr/>		
human		
<i>Gapdh</i>	CCCCACTTGATTTGGAGGGA	AGGGCTGCTTTAACTCTGGT
<i>Fut2</i>	CTACCACCTGAACGACTGGATG	AGGGTGAACTCCTGGAGGATCT
<i>ZO-1</i>	CCATTCCCGAAGGAGTTGA	CGACGAGGAGTCGGATGATT
<i>occludin</i>	CTCTCAGCCAGCCTACTCTT	CATAGCCATAGCCACTTCCGT
mice		
<i>gapdh</i>	CATGGCCTTCCGTGTTCTTA	TACTTGGCAGGTTCTCCAGG
<i>fut2</i>	ACCACAGCCAGAACAGAGGATTG	GAAAGGTACCTGGGACTCG
<i>tnf-α</i>	CATCTTCTAAAATTCGAGTGACAA	TGGGAGTAGACAAGGTACAACCC
<i>ccl2</i>	TTGGCTCAGCCAGATGCA	CCTACTCATGGGATCATTTGC
<i>il-1β</i>	CCGTGGACCTTCCAGGATGA	GGGAACGTCACACACCAGCA
<i>il-6</i>	AGGATACCACTCCAACAGACCT	CAAGTGCATCATCGTTGTTCATAC
<i>cxcl-1</i>	TGCACCCAAACCGAACGTCAAGCC	AGCCAGCGTTACCAGACAGGT
<i>ccl3</i>	CCATGACACTCTGCAACCAAG	ACGATGAATTGGCGTGGAAT
<i>ccl4</i>	CCTCCCACCTCCTGCTGTTT	GCTTGGAGCAAAGACTGCTG
<i>ccl5</i>	GCCCACGTCAAGGAGTATTTC	CACACACTTGGCGGTTCTT
<i>ZO-1</i>	GCTTTAGCGAACAGAAGGAGC	TTCATTTCGAGACTTCACCA
<i>occludin</i>	TGAAAGTCCACCTCCTACAGA	CCGGATAAAAGAGTACGCTGG

Supplementary Figure 1



Supplementary Figure 1. (A) The mRNA level of *Fut2* in colonic epithelial cells of WT and *Fut2*^{ΔIEC} mice. (B) The proteins level of *Fut2* in colonic epithelial cells of WT and *Fut2*^{ΔIEC} mice. GAPDH was used as a loading control. (C) UEA-I staining (red) images of colon tissue in WT and *Fut2*^{ΔIEC} mice (Scale bar, 100 μ m).

Supplementary Figure 2



Supplementary Figure 2. LPC concentration was positively correlated with colonic pro-inflammatory cytokines and negatively correlated with tight junction genes. It was also correlated with gut microbiota. A) Correlation analysis of LPC and pro-inflammatory cytokines, *tnf- α* ($P=0.008$) , *il-1 β* ($P=0.0722$), *il6* ($P=0.0026$), *ccl2* ($P<0.001$), *ccl3* ($P<0.001$). (B) Correlation analysis of LPC and epithelial tight junction genes—*occludin* ($P=0.0253$) and *ZO-1* (0.1870). (C) LPC was positively correlated with *Escherichia*, *Bilophila*, *Enterorhabdus* and *Gordonibacter*. (n=14)