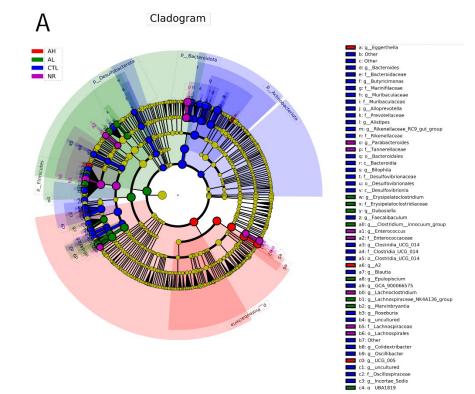
## **Supporting Information**

Table 51 The primer sequences for K1-q1 CK	
Primer	Sequence (5'-3')
Claudin1-F	TCTCTGGGATGGATCGGCTC
Claudin1-R	TGTATCTGCCCGGTGCTTTG
ZO-1-F	TGTTCCGGGTCGTGGATACT
ZO-1-R	CCCGCTGTCTTTGGAAGTGT
GAPDH-F	ATGTGTCCGTCGTGGATCTG
GAPDH-R	AAGTCGCAGGAGACAACCTG

## Table S1 The primer sequences for RT-qPCR

Table S2 The primers sequences d	luring analysis of gut microbiota
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Primer	Sequence (5'-3')
343-F	TACGGRAGGCAGCAG
798-R	AGGGTATCTAATCCT



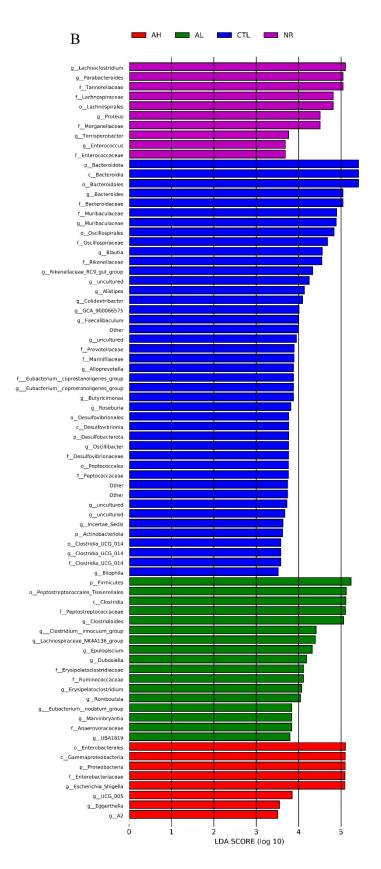


Figure S1. LEfSe analysis of microbiota: (A) taxonomic cladogram obtained from LEfSe analysis of 16S sequences, (B) LDA scores of the differentially abundant taxa.

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Figure S2. Identification of potential biomarkers (positive ion combined with negative ion) for the effect of tangeretin on antibiotics consumption based on the differently expressed metabolites.