

Isomer-Specific Effects of *cis*-9,*trans*-11- and *trans*-10,*cis*-12-CLA on Immune Regulation in Ruminal Epithelial Cells

Yang et al. Online Supplementary Material

Table S1. Primers used in mRNA abundance analysis.

Gene	NCBI accession	Primer sequence 5'-3'
TNF- α	NM_001024860	F: GTCCAACTTTAAACAGCTGCACTTA R: CCCAAACTTGTGGACCCGA
IL-6	NM_001009392	F: ACACTGACATGCTGGAGAAGATGC R: CCGAATAGCTCTCAGGCTGAACTG
NF- κ B	XM_027960471	F: ATTGAGCGTCCTGTAACCGTGTTTC R: TGCACCTCCTCCTTGTCTTCTACC
IL-1 β	NM_001009465	F: GCAACCGTACCTGAACCCAT R: TGTTGGGTGCAGCTCTTCAT
CX3CL1	XM_027977870	F: AGGCATGAGTGAGCCTGAAGA R: TAAGACAGCGCGGGAAGAG
CCL20	XM_012147649	F: GTCTCCGATACACAGAACGAATACT R: TTCACCCACTTCTTCTTTGGATCTG
CD40	XM_012189293	F: AAACAGAATGCCAGTCCTGCGGTAA R: ACGCAAGTGGTGTCTGTATTCAAGG
ICAM-1	NM_001009731	F: CAATACATCCTCCAAAAGCCATCAT R: CACATCACTCAGTTCAAAAACCTTC
IRF1	NM_001009751	F: ATTGAAGAGGTGAAGGACCAGAGCA R: TCGGCTGGACTTGGACTTTCTCTCT
RIPK2	XM_012184164	F: AAAGCGAGGGCTTCTGTCAA R: CATCTGGATTTTGCGCCAC
MMP13	NM_001166179	F: GCCACTTTATGCTTCCTGACGATGA R: CGGCGTTTTCGGATGTTTAGAGTTG
CDK17	XM_027967633	F: GAGAAGGCTATCCCTCACGC R: CACTCTCGCCATCTGATCCC
WNT10A	XM_004004935	F: AGTCCTATCTTCAGCAGAGGTTTCC R: AGGGTGCTCGGGAACCCGTGGCTC
TLR4	NM_001135930	F: GGTTTCAGGAATGCCACTT R: CTTTCACCTCTGCCATACTTT
TICAM1	XM_004023497	F: CACGACACCAGGTCAGCTC R: GCCAGTGGACCTTAGGGAAC
PPAR γ	NM_001100921	F: GCTGCTCCAGAAAATGACGG R: GTGGGTGGAGACTCATGTCC
SCD	NM_001009254	F: TGCTGATCCCCACAATTCCC R: TGAAGCACAACAGCAGGACA
FADS2	XM_015103138	F: ACCTCTCTGTTTACAAGAAGTCCAT R: TGGAAGATGTTGGGTTTGGCGTGGT

SREBF1	XM_027974781	F: AAACGCTACCGCTCTTCCATCA R: TCCACCACCTCGGGCTTCAT
CPT1A	NM_001009414	F: GGCGCCGGGTGCATT R: GACTGTGAACTGGAAGGCGA
YWHAZ	NM_001267887	F: GATGAAGCCATTGCTGAACTTGA R: CAGCTTCGTCTCCTTGGGTA
GAPDH	NM_001190390	F: GTCTTCACTACCATGGAGAAGG R: TCATGGATGACCTTGGCCAG

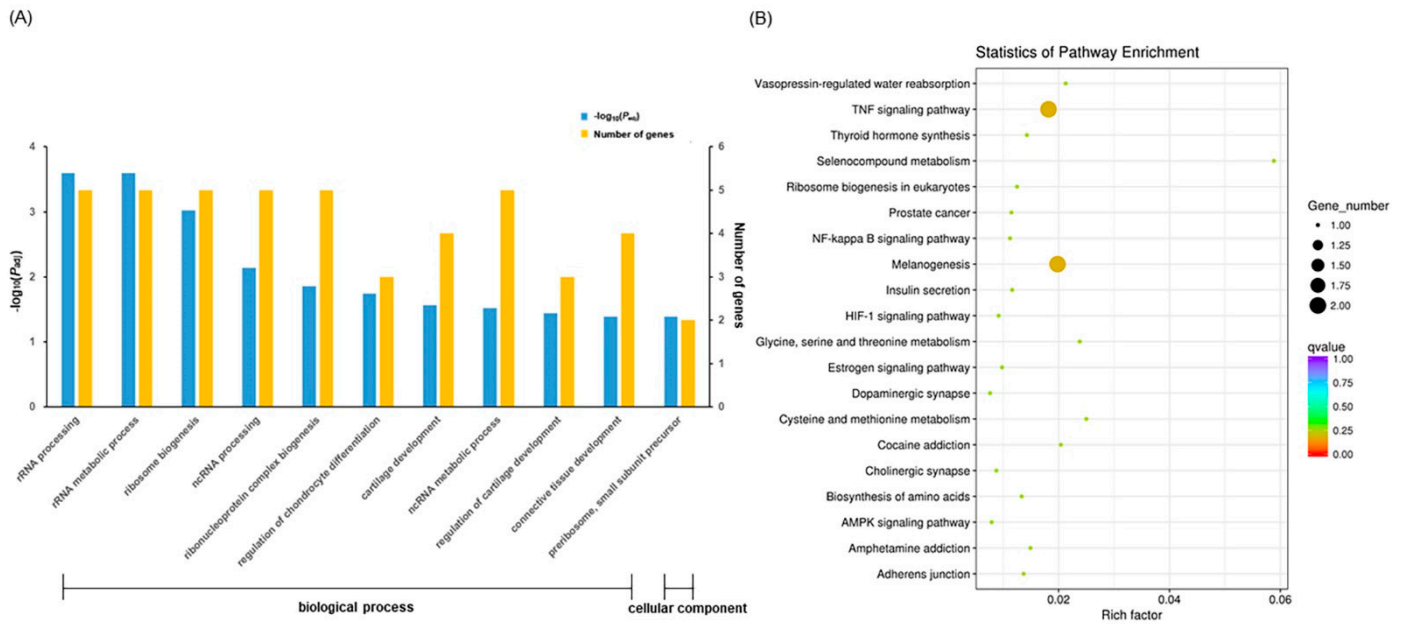


Figure S1. Effect of *cis*-9,*trans*-11-CLA pretreatment on the GO terms (A) and KEGG pathways (B) in RECs upon LPS stimulation. The DEGs used for functional annotation were significantly downregulated in the *c*-9,*t*-11-CLA+LPS group and upregulated in the LPS group. The circle size indicates the number of enriched genes, and the circle color indicates the P_{adj} value.