

Olive oil extracts and oleic acid attenuate the LPS-induced inflammatory response in murine RAW264.7 macrophages but induce the release of prostaglandin E₂

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Supplementary Table S1: Concentration of major fatty acids in OOE¹.

Fatty acid	Concentration [mol/l]
C16:0	0.379
C16:1c9	0.022
C18:0	0.076
C18:1c9	2.517
C18:2c9,12	0.180
C18:3c9,12,15	0.017
C20:0	0.010
Total	3.200

¹ OOE, olive oil extract.

Supplementary Table S2: PCR primers used in this study. In each case, forward and reverse primers are located in different exons.

mRNA	mRNA name	GenBank accession no.	Forward primer	Reverse primer	Amplicon size [bp]
Cox2	Cyclooxygenase 2	NM_011198	TCCCTGAAGCCGTACACAT CA	TGGACGAGGTTTTTCCAC CA	132
Il1 β	Interleukin 1 beta	NM_008361.3	TGAAGTTGACGGACCCCAA A	CAGCCACAATGAGTGAT ACTGCC	140
Il6	Interleukin 6	NM_031168.1	TCAATTCCAGAAACCGCTAT GAA	GGAAGGCCGTGGTTGTCA C	94
Il10	Interleukin 10	NM_010548.2	AAATAAGAGCAAGGCAGTG GAGC	TCATTCATGGCCTTGTAG ACACC	81
iNos	Inducible nitric oxide synthases	NM_010927.3	GAGCGAGGAGCAGGTGGA A	CCATAGGAAAAGACTGC ACCGA	90
Ppib	Peptidylprolyl isomerase B	NM_011149.2	AAACAGCAAGTTCCATCGT GTCAT	GAAGCGCTCACCATAGAT GCTCT	103
Tnf α	Tumor necrosis factor α	NM_013693	AGAAACACAAGATGCTGGG ACAGT	CCTTTGCAGAACTCAGGA ATGG	46

Supplementary Table S3: MTT cell viability of RAW264.7 cells (%)

Concentration (μ M)	OOE ¹	OA ²
0	100 \pm 0	100 \pm 0
1	106.9 \pm 2.9	95.1 \pm 6.9
5	116.2 \pm 7.8	101.6 \pm 8.5
10	116.0 \pm 6.2	100.5 \pm 10.6
50	112.8 \pm 4.9	105.3 \pm 10.2
100	114.1 \pm 5.9	109.4 \pm 6.9
200	127.7 \pm 9.6	115.1 \pm 9.0

¹ OOE, olive oil extract; ² OA, Oleic acid

Supplementary Table S4: Fatty acid composition (% of total FAME¹) of olive oil extracts

	O1	O2	O3	O4	O5
C16:0	9.4	10.3	10.6	14.6	12.2
C18:0	2.9	2.4	2.3	2.1	2.3
C18:1c9	81.3	78.0	77.8	66.9	72.8
C18:2 n-6 (LA) ²	3.3	5.6	5.5	11.4	8.4
C-18:3 n-3 (ALA) ³	0.5	0.5	0.5	0.5	0.5

¹ FAME, fatty acid methyl esters. ² LA, linoleic acid. ³ ALA, α -linolenic acid.
