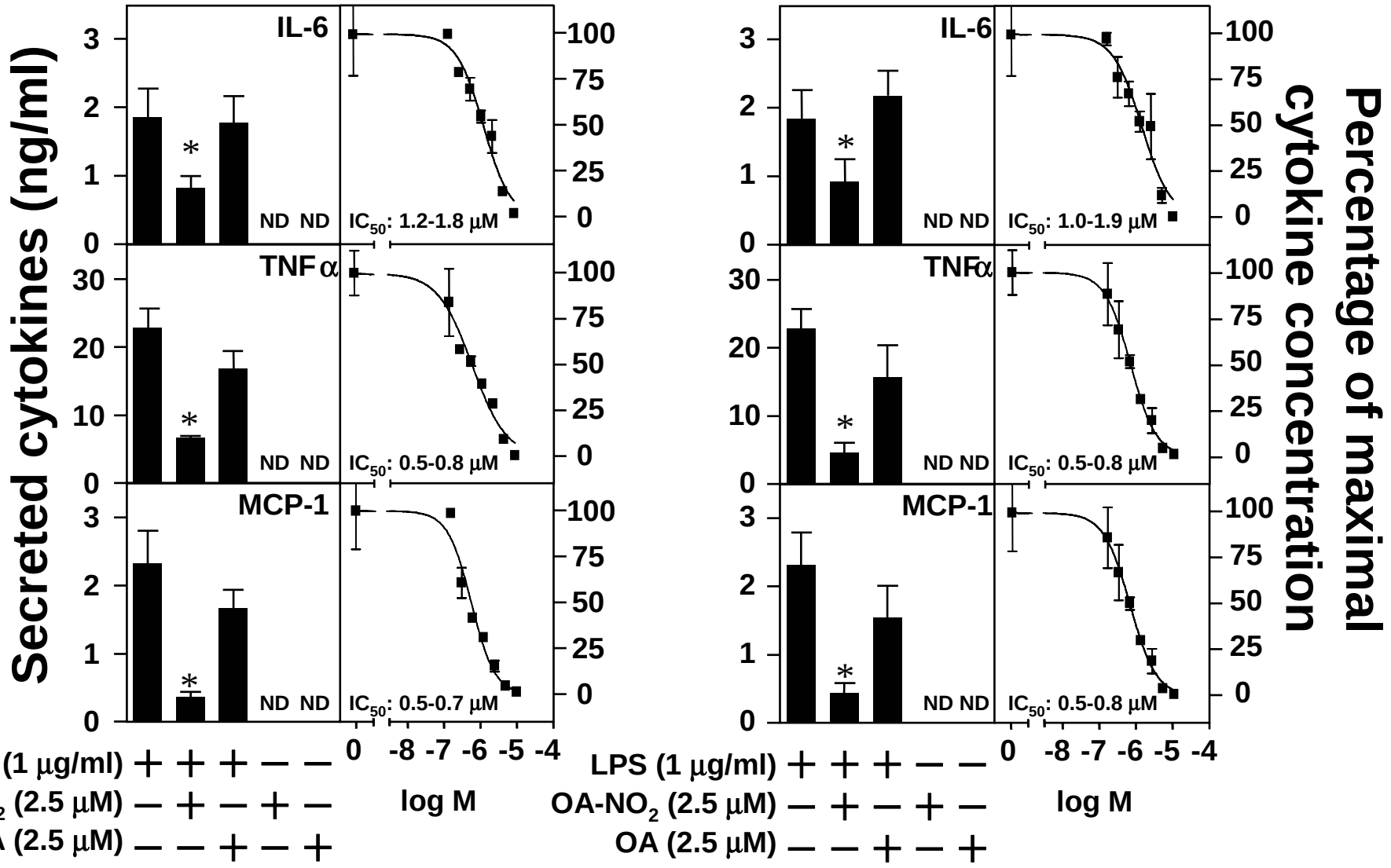
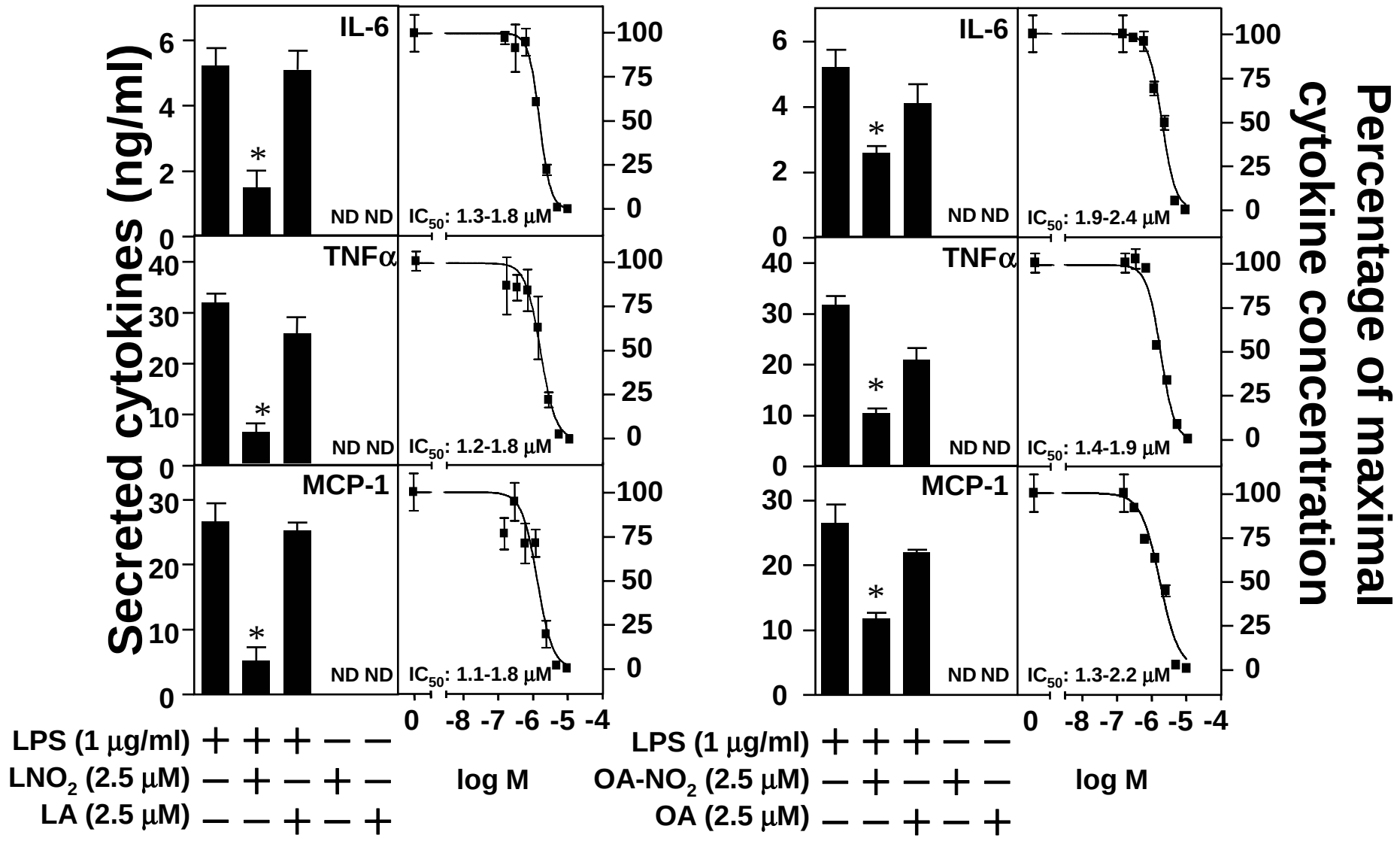
Supplemental Figure A ***THP-1 macrophages (D-serum)***



Supplemental Figure B ***RAW264.7 macrophages (D-serum)***



Legend to supplemental figure.

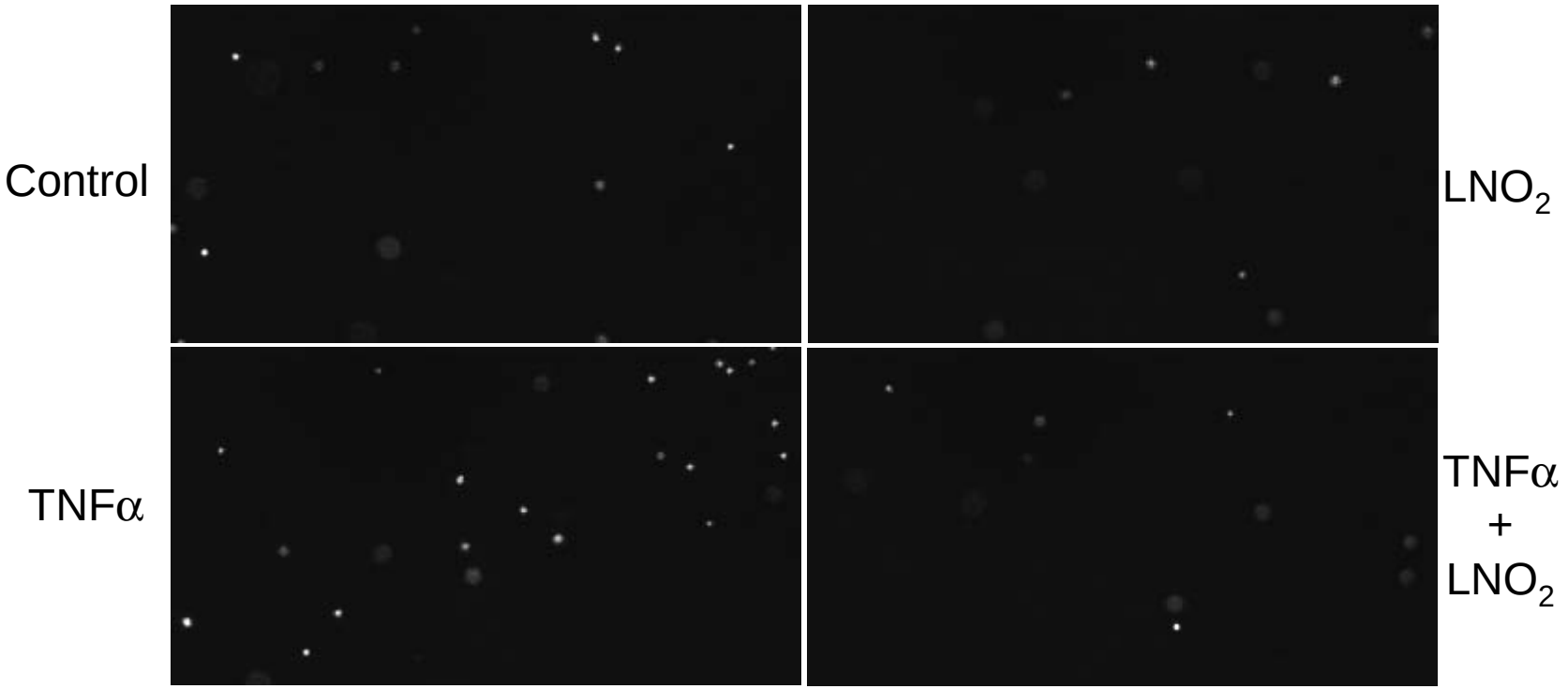
LNO_2 and OA-NO_2 inhibited LPS-induced inflammatory cytokine secretion in THP-1 and RAW264.7 macrophages in delipidated serum. *A*, *B*, Cells were stimulated as indicated for overnight in fresh culture medium with 1% delipidated serum (D-serum). The secretion of pro-inflammatory cytokines was assessed by ELISA. Values are expressed as mean ± s.d. (n=6). * $p<0.05$ vs LPS alone. ND, non-detectable; LNO_2, nitrated linoleic acid; OA-NO_2, nitrated oleic acid; LA, linoleic acid; OA, oleic acid.

Supplemental Table I
PCR reaction conditions and primer sequences for QRTPCR[a]

Gene[b]	Ta[b]	Tm[c]	Extension time	Primer sequence
PPARα	56°C	61°C	14 s	Up; 5'-acaaggtcaaggcccgggtcatact-3' Low; 5'-atcagcatcccgtctttgttcatca-3'
PPARδ	56°C	61°C	20 s	Up; 5'-tcaacatggaatgtcgggtgt-3 Low; 5'-ggtggactggcagcggtag-3'
PPARγ1	56°C	61°C	16 s	Up; 5'-aagatttgaaagaagcggtga-3' Low; 5'-caatggccatgagggagttag-3'
PPARγ2	56°C	61°C	16 s	Up; 5'-ttcgctgatgcactgcctatg-3' Low; 5'-gatccggcagttaagatcaca-3'
GAPDH[d]	62°C	95°C	18 s	Up; 5'-accacagtccatgccatcac-3' Low; 5'-tccaccaccctgctgta-3'

a: A previous denaturing step at melting temperature was performed for 30 s; melting plateau time was 0 s; reactions were run for a total of 35 to 45 cycles.
b: Ta, annealing temperature.
c: Tm, melting temperature.
d: Housekeeping gene for normalization

Adhesion and rolling of THP-1 monocytes cell on HUVEC in laminar flow:



Movie 1: Adhesion and rolling of THP-1 monocytes cell on HUVEC in laminar flow: Fluorescently labeled THP-1 cell adhesion to and rolling on HUVEC during a flow rate corresponding to a wall shear rate of 0.5 dynes/cm2 was captured at 30 frames/sec for 10 sec using the Automated Image Capture (AIC) feature of Simple PCI software (Compix Inc, Cranberry Township, PA). Conditions include untreated HUVECs, LNO2 pretreated (10 µM, 2 hours) and or activated for 16 h with TNFa (2 ng/ml). A Glycotech flow chamber system (Rockville, Md) was used and THP-1 cells were viewed on a Leica inverted fluorescence microscope equipped with differential interference contrast optics and a Hamamatsu Orca ER digital CCD camera (Compix Inc, Cranberry Township, PA).