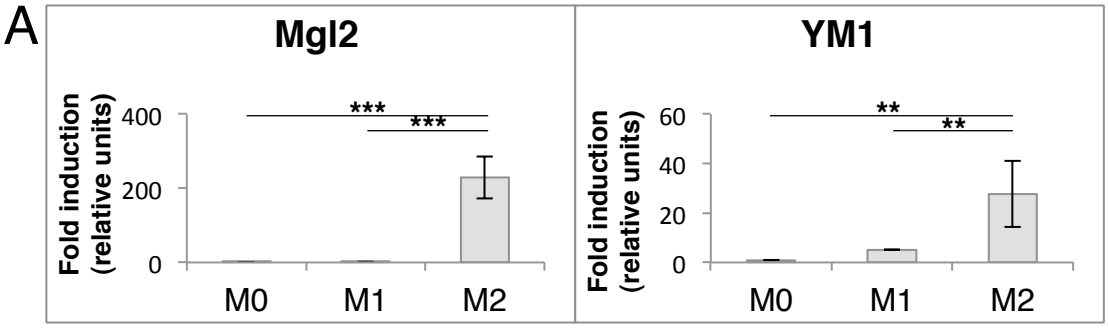
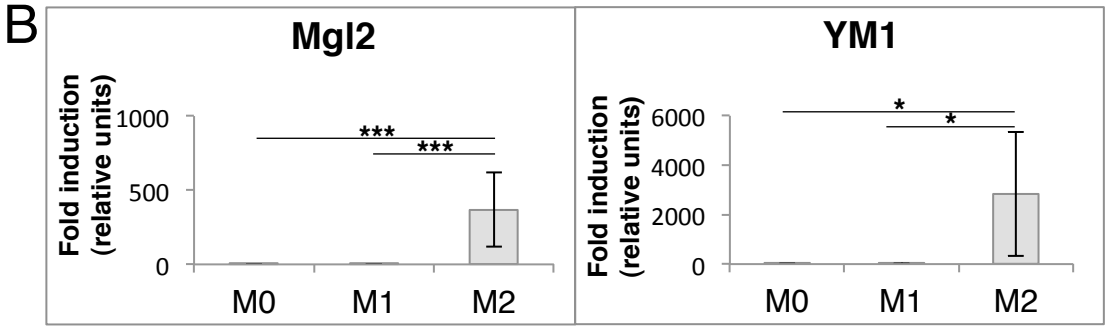
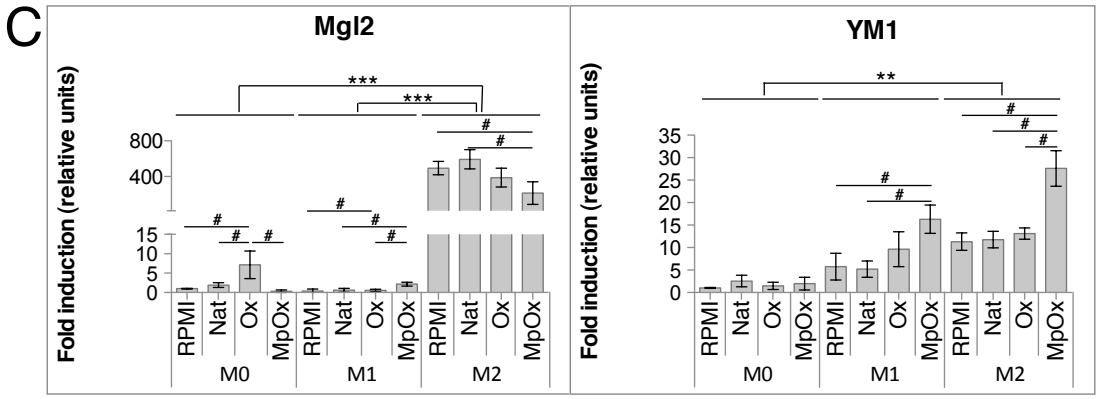
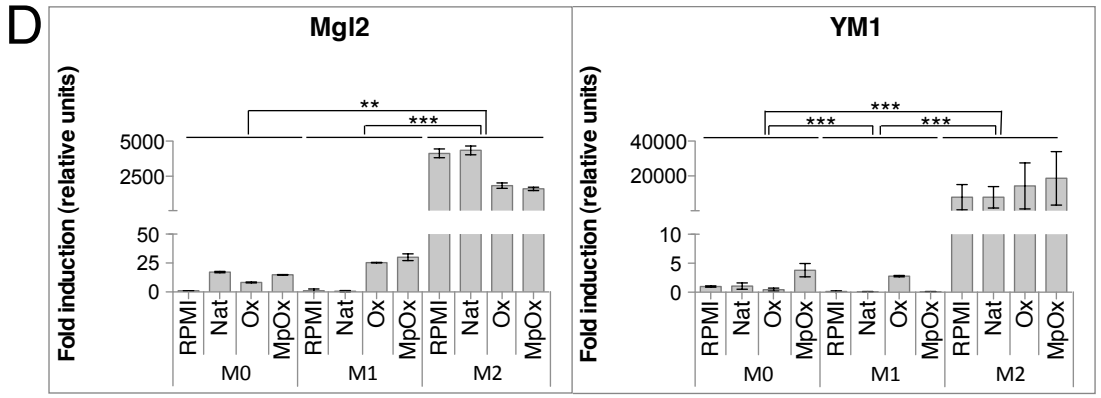
Supplementary data
Figure S1

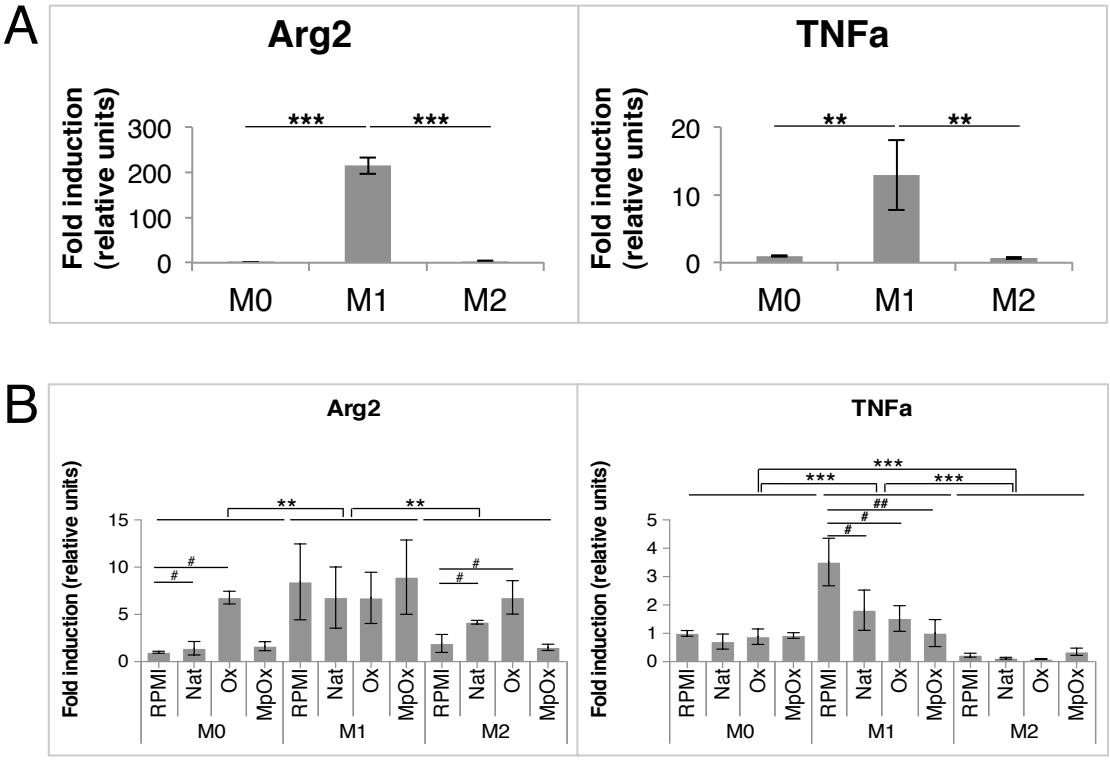




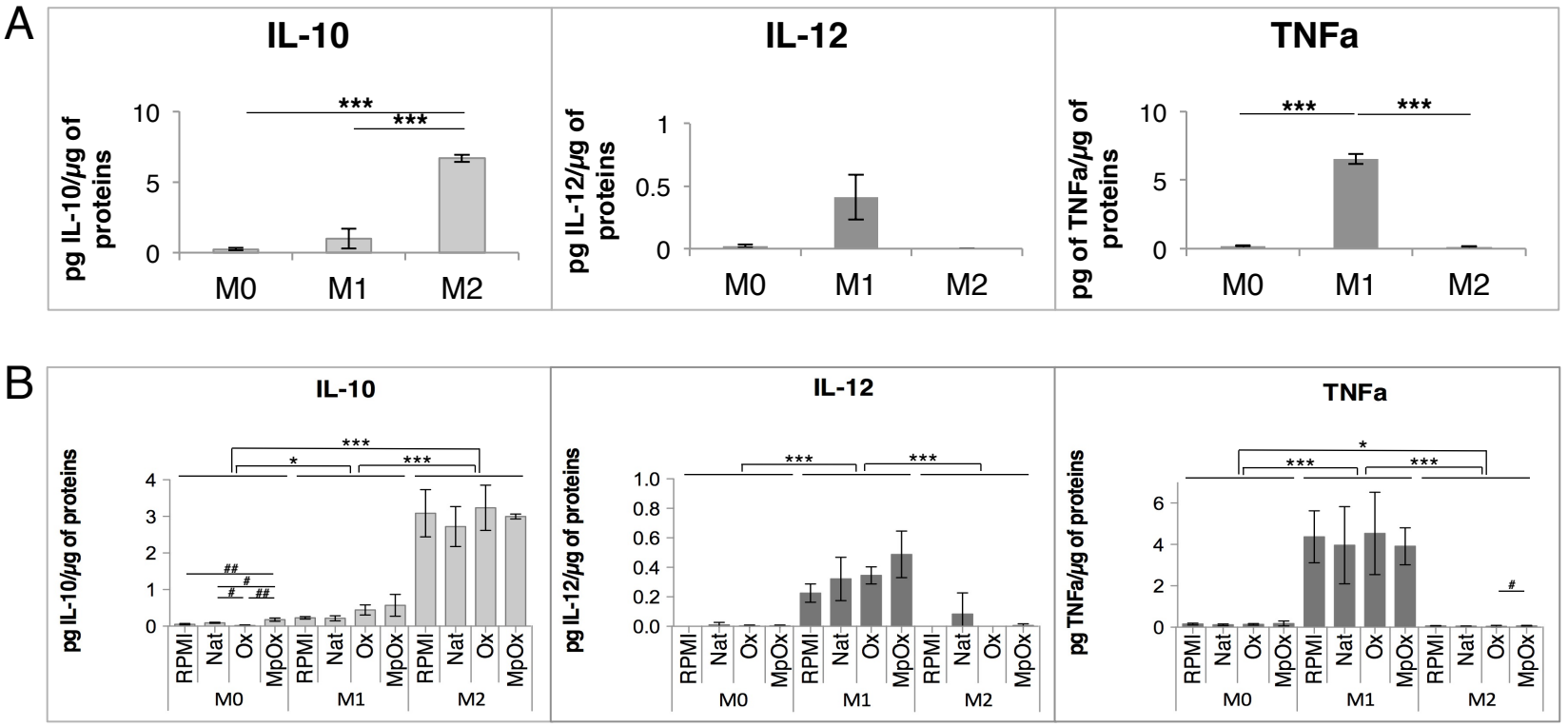




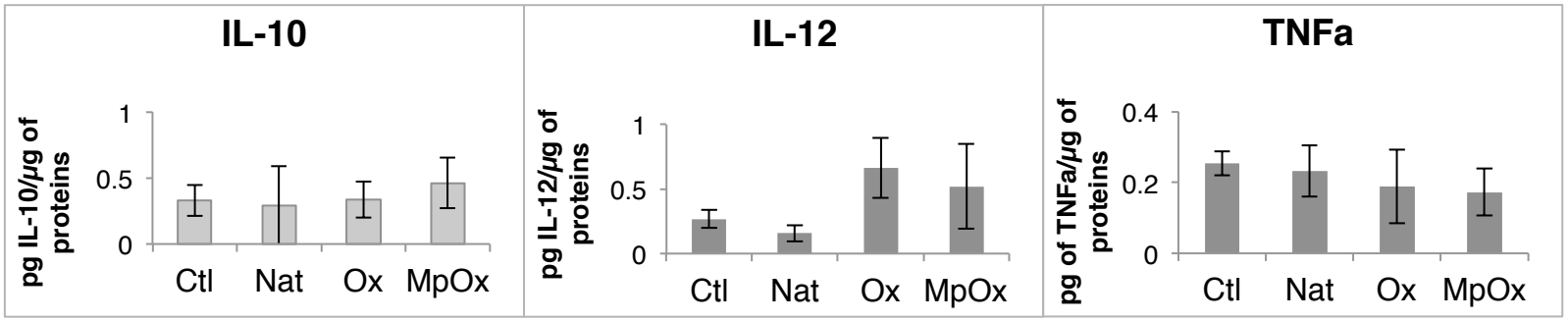
Supplementary data
Figure S2



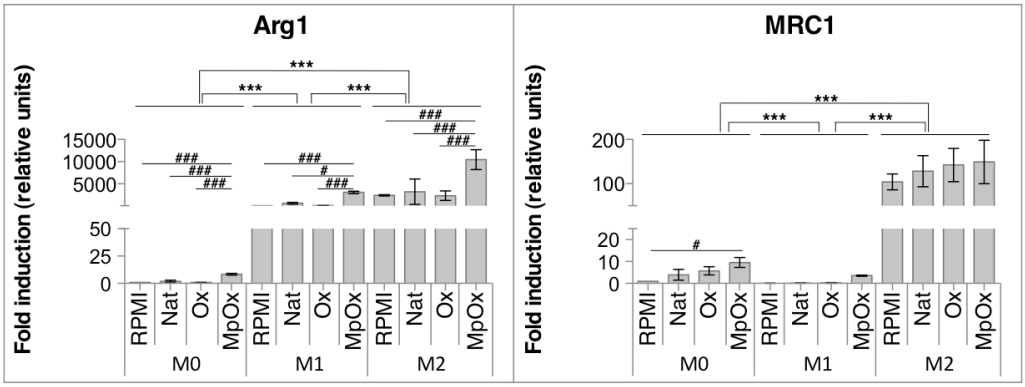
Supplementary data
Figure S3



Supplementary data
Figure S4

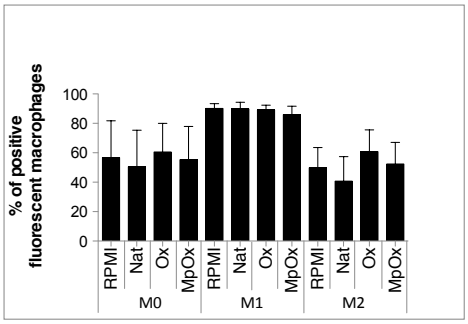


Supplementary data
Figure S5



Supplementary data
Figure S6

A



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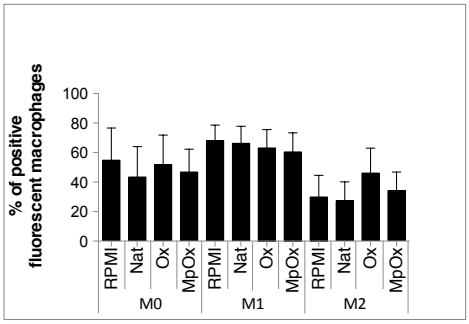

Supplementary data

Supplementary Figure Legends

Figure S1. Expression of M2 polarization marker genes (*Mgl2* and *YM1*) at the mRNA level (RT-qPCR), in M0, M1 and M2 macrophages, in the absence (A-B) or in the presence of LDLs for 24 hours (100 µg/ml) (C-D), in RAW 264.7 cells (A and C) and in BMDMs (B and D). (A-B) The expression of the M2 marker genes was analyzed by RT-qPCR as described in figure 1. Data is expressed as mean fold induction relatively to M0 cells ± SD (n = 6 in RAW 264.7 (A); n = 5 in BMDMs (B)). ANOVA 1: * $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$.

(C-D) Comparative effects of LDLs on (un)polarized RAW 264.7 macrophages and BMDMs. M0, M1 and M2 macrophages were stimulated in the presence or not (RPMI control) of Nat-LDLs, Ox-LDLs, MpOx-LDLs for 24 hours (100 µg/ml).The expression of polarization marker genes was assessed at the mRNA level (RT-qPCR) in RAW 264.7 cells (C) and BMDMs (D). Data for *Mgl2* and *YM1* was analyzed by a Kruskal-Wallis ANOVA on ranks. Data was normalized with TBP used as housekeeping gene and expressed as mean fold induction relatively to M0 control cells (RPMI) ± SD (n = 6 in RAW 264.7 (C); n = 5 in BMDMs (D)). ANOVA 2: *#, $p < 0.05$; **, ## $p < 0.01$; ***, ### $p < 0.001$.

Figure S2. Expression of M1 polarization marker genes (*Arg2* and *TNFα*) at the mRNA level (RT-qPCR), in M0, M1 and M2 macrophages, in the absence (A) or in the presence of LDLs for 24 hours (100 µg/ml) (B) in RAW 264.7 cells. (A) The expression of M1 polarization marker genes was assessed at the mRNA level (RT-qPCR). Data is expressed as mean fold induction relatively to M0 cells ± SD (n = 6). ANOVA 1: * $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$.

(B) Comparative effects of LDLs on (un)polarized RAW 264.7 macrophages. M0, M1 and M2 macrophages were stimulated in the presence or not (RPMI control) of Nat-LDLs, Ox-LDLs, MpOx-LDLs for 24 hours (100 µg/ml). Data for *Arg2* and *TNFα* was analyzed by a Kruskal-Wallis ANOVA on ranks. Data was normalized with TBP used as housekeeping gene and expressed as mean fold induction relatively to M0 control cells (RPMI) ± SD (n = 6). ANOVA 2: *, # $p < 0.05$; **, ## $p < 0.01$; ***, ### $p < 0.001$.

Figure S3. Secretion of cytokines by RAW 264.7 M0, M1 and M2 polarized macrophages in the absence (A) or in the presence of LDLs for 24 hours (100 µg/ml) (B). (A) Secreted IL-10 (M2 marker) as well as IL-12 and TNFα (M1 markers) were assessed by ELISA. (B) Comparative effects of LDLs on (un)polarized RAW 264.7 macrophages. M0, M1, and M2 macrophages were stimulated in the presence or not (RPMI control) of Nat-LDLs, Ox-LDLs, MpOx-LDLs for 24 hours (100 µg/ml). IL-10, IL-12 and TNFα cytokines were assessed in the cell culture supernatants by ELISA. Data is expressed relatively per µg protein per well as mean ± SD (n = 3). (A) ANOVA 1, (B) ANOVA 2: *, # $p < 0.05$; **, ## $p < 0.01$; ***, ### $p < 0.001$.

Figure S4. Comparative effects of LDLs on the secretion of M1 (IL-12 and TNFα) and M2 (IL-10) cytokines by unpolarized RAW 264.7 M0 macrophages. M0 macrophages were treated for 24 hours in the presence of medium alone (Ctl), Native-LDLs (Nat), Ox-LDLs (Ox) or MpOx-LDLs (MpOx) (100 µg/ml). Cytokines were assessed in the supernatants by ELISA. Data is expressed relatively per µg protein per well as mean ± SD (n = 3). ANOVA 1: * $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$.

Figure S5. Comparative effects of LDLs on the expression of M2 marker genes (*Arg1* and *MRC1*) in RAW 264.7 (un)polarized macrophages. Zoomed data for *Arg1* and *MRC1* from Fig. 4A.

Macrophages were treated for 24 hours in the presence of medium alone (RPMI control), Native-LDLs (Nat), Ox-LDLs (Ox) or MpOx-LDLs (MpOx) (100 µg/ml) and the expression of polarization marker genes was monitored at the mRNA level (RT-qPCR), with *Arg1* and *MRC1* as M2 markers. Data was normalized with TBP used as housekeeping gene and expressed as mean fold induction relatively to M0 control cells (RPMI) ± SD (n = 6). ANOVA 2: * $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$.

Figure S6. Impact of native or oxidized LDLs on the phagocytosis of fluorescent beads by (un)polarized RAW264.7 cells (A) and BMDMs (B). M0, M1 and M2 macrophages were incubated in the presence or not of Nat-, Ox- and MpOx-LDLs and fluorescent beads (dilution: 1/133) for 24 hours. The percentage of positive fluorescent cells was evaluated using flow cytometry (FACS BD Verse). Data is expressed as mean ± SD (n = 3). ANOVA 2: *, # $p < 0.05$; **, ## $p < 0.01$; ***, ### $p < 0.001$.