

Supplementary figure 1: Activation of BV2 cells and oxysterol levels in control BV2 cells

(A) 2,5 * 10⁵ cells were incubated with vehicle (CTL) or LPS (100 ng/mL) for the indicated time points. mRNA was extracted and RT-qPCR performed for IL-1 β , IL-6 and TNF-1 α . Data are expressed as the mean ± S.E.M in % of the respective CTL. *** p < 0,001; ** p < 0,01; * p < 0,05 vs CTL. (B) Oxysterols were quantified in BV2 cells incubated without LPS. Data are expressed as the mean ± S.E.M in pmol/10*10⁶ cells. (C) 2,5 * 10⁵ cells were incubated with vehicle (CTL) or 10 U/mL of IL-4 for the indicated time points. mRNA was extracted and RT-qPCR performed for Arg1 and CD206. Data are expressed as the mean ± S.E.M in % of the respective CTL.





Supplementary Figure 2: LPS-induced activation of primary co-culture of astrocytes and microglia and oxysterol levels in control cells (A) 2,5* 10⁵ cells were incubated with LPS (100 ng/mL) or vehicle (CTL) for 8 hours. mRNA was extracted and RT-qPCR performed for IL-1 β , IL-6 and TNF- α . Data are expressed as mean ± S.E.M in % of CTL. **** p < 0,0001; *** p < 0,001 vs CTL. (B) Oxysterols were quantified in co-culture of primary microglia and astrocytes incubated without LPS. Data are expressed as the mean ± S.E.M in pmol/10*10⁶ cells.



Supplementary Figure 3: mRNA expression of pro-inflammatory markers in (A) the brain and (B) spinal cord of mice with LPS-induced inflammation in comparison to control mice. Mice (7 per group) were treated with LPS (300 µg/kg) or vehicle (CTL) and sacrificed after 4 or 8 hours. mRNA was extracted and RT-qPCR was performed for IL-6 and TNF- α . Data are expressed as the mean ± S.E.M in % of CTL set at 100. *** p < 0,001 vs CTL.



Supplementary Figure 4: Oxysterol levels in CTL mice. Oxysterols were analysed in 7 control mice, in the brain (A), the spinal cord (B) and the liver (C). Data are expressed as the mean ± S.E.M in pmol / gram of tissue.



Supplementary Figure 5: Effect of LPS-induced inflammation on oxysterol levels in the liver in comparison to CTL mice. 7 mice per group were treated with LPS (300 μ g/kg) or vehicle (CTL) and sacrificed after 4 or 8 hours. Data are expressed as mean ± S.E.M in % of CTL. ** p < 0,01 * p < 0,05 vs CTL.

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