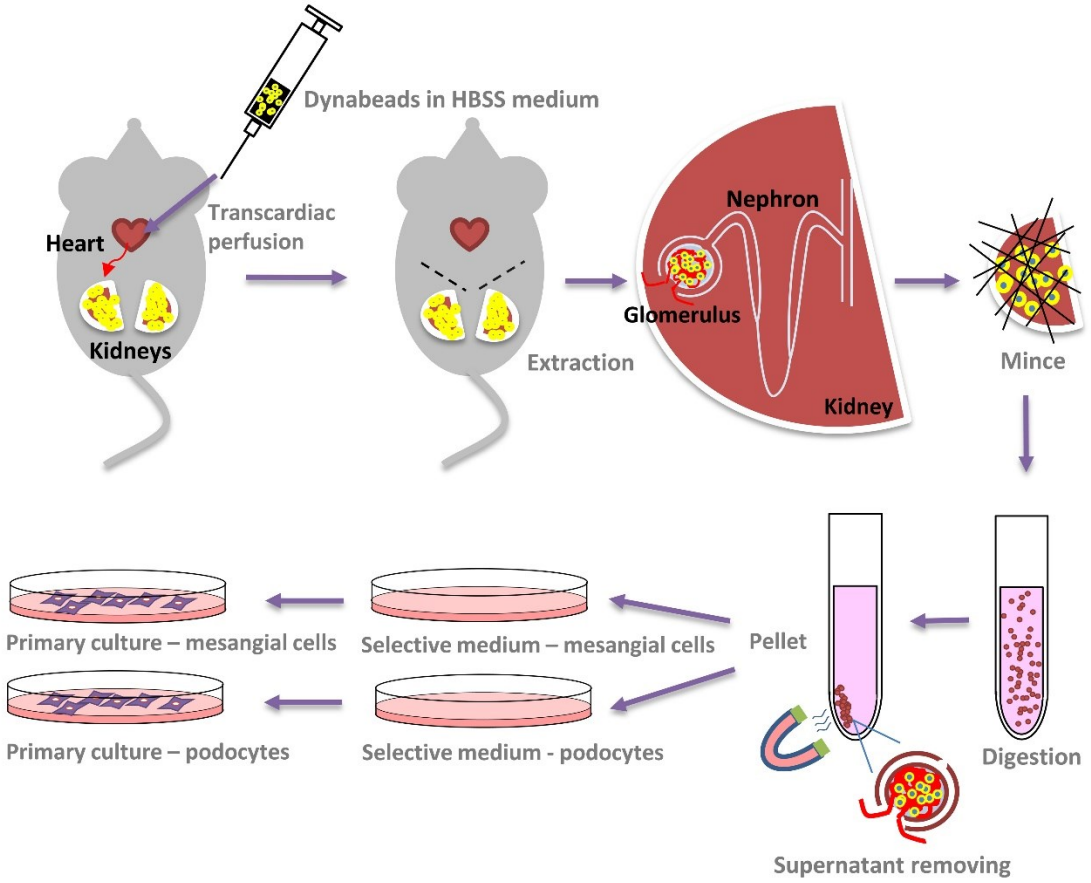
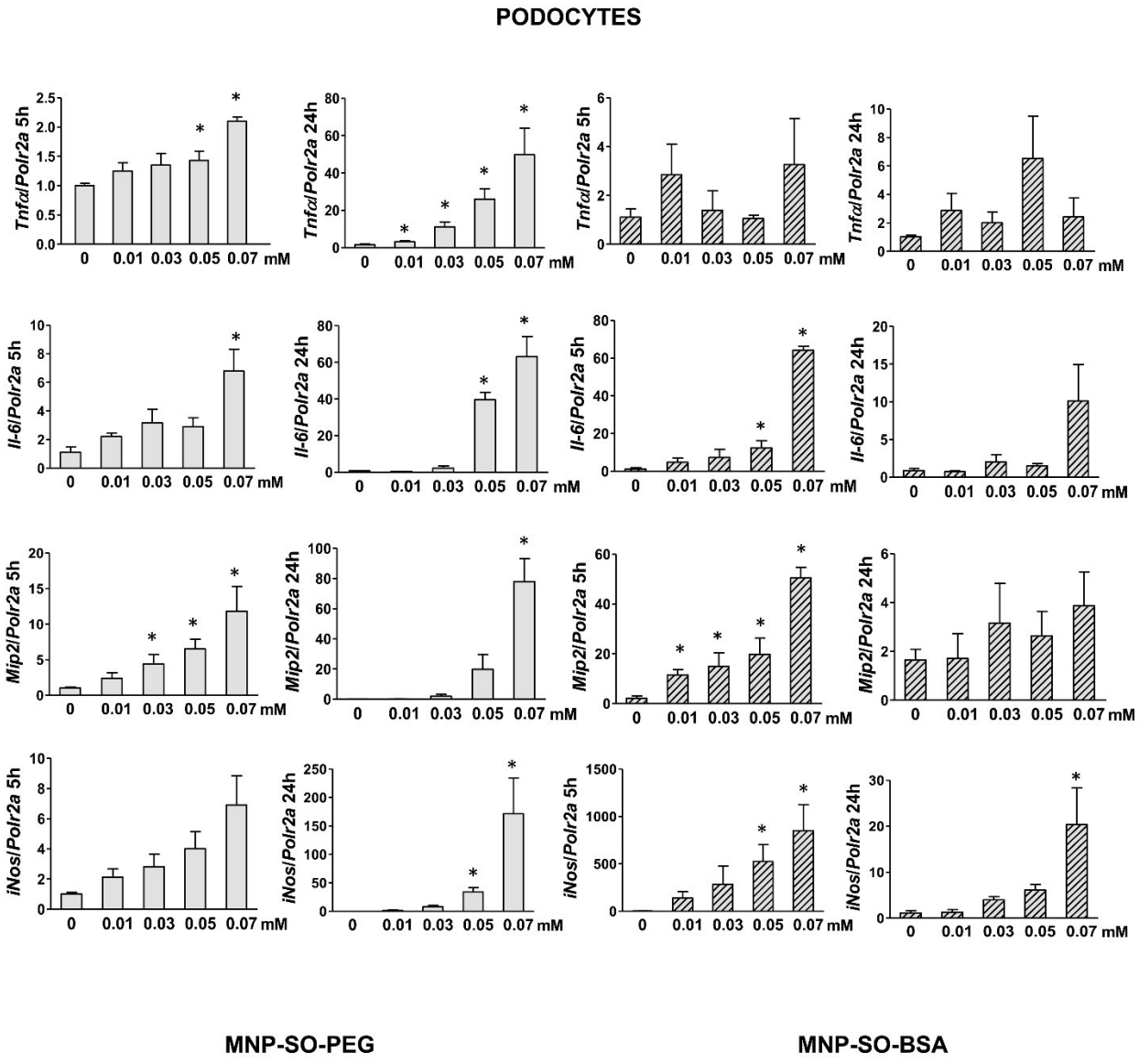


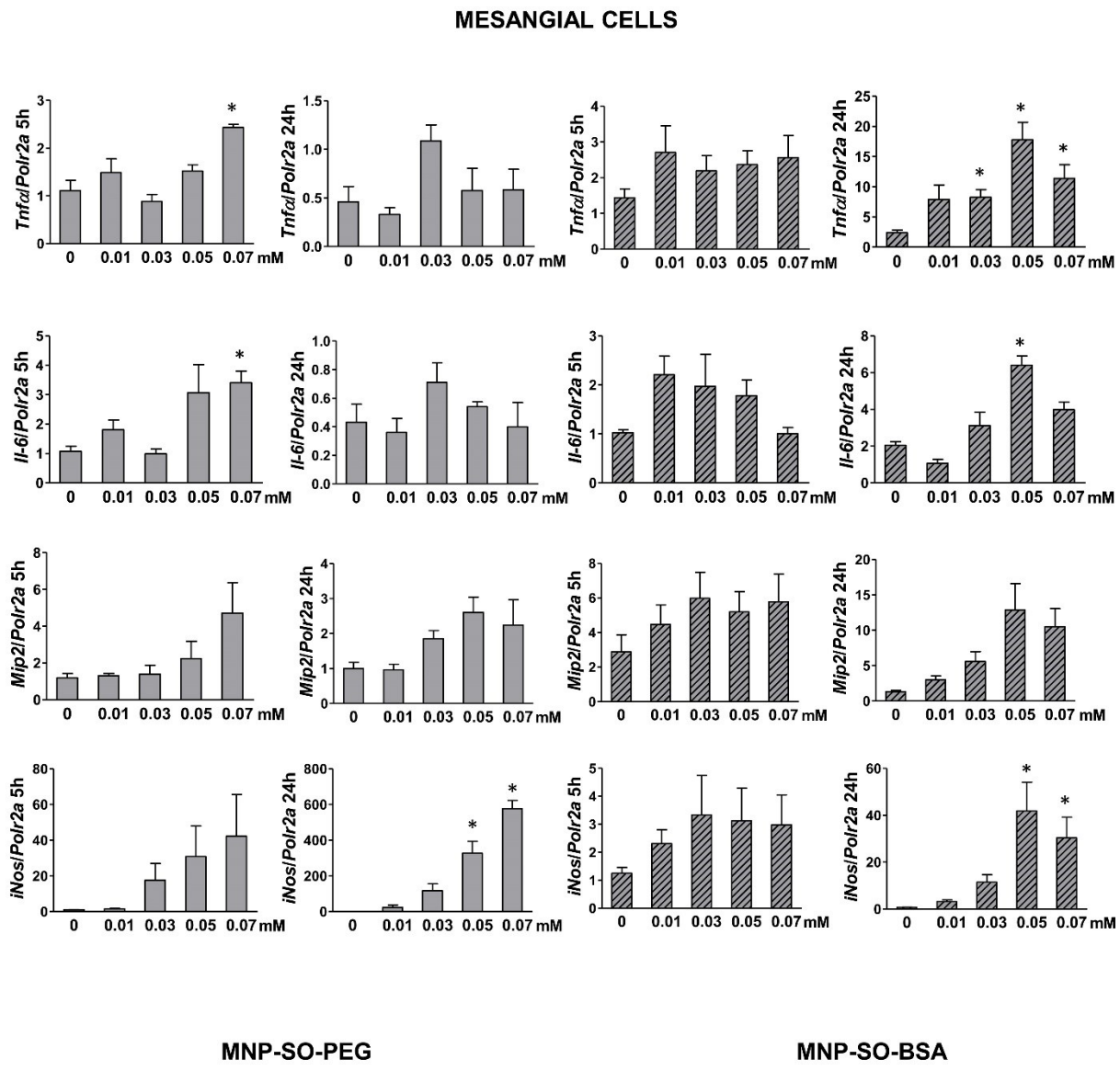
Supplemental Figure S1 Isolation of primary mesangial cells and podocytes from mouse kidney. Transcardiac perfusion of HBSS medium containing 8 x 10^7 inactivated Dynabeads serves to enrich Dynabeads in kidney glomeruli. Following extraction, kidneys are minced into 1 mm^3 pieces and subsequently digested with 1 mg/ml collagenase A at 37°C for 30 minutes. Being gently pressed through a 100 µm cell strainer, the cell suspension is centrifuged at 200 x *g* for 5 minutes and cell pellet resuspended in 5 ml of HBSS. Glomeruli containing Dynabeads are gathered using magnetic particle concentrator. After washing with HBSS, glomeruli are cultured in cell-specific media.

Supplemental figure S1



Supplemental Figure S2 MNPs induce intensive inflammatory response in murine podocytes. RT-PCR for *Tnfα*, *Il-6*, *Mip2*, and *iNos* after the short (5 h) and long (24 h) time exposure to indicated concentrations of MNP-SO-PEG (**A**) and MNP-SO-BSA (**B**). Data represent the mean ± SEM of three independent experiments. **P*<0.05 *vs*. corresponding non-exposed control.

Supplemental figure S2



Supplemental Figure S3 MNPs induce moderate inflammatory response in murine mesangial cells. RT-PCR for *Tnfα*, *Il-6*, *Mip2*, and *iNos* after the short (5 h) and long (24 h) time exposure to indicated concentrations of MNP-SO-PEG (**A**) and MNP-SO-BSA (**B**). Data represent the mean ± SEM of three independent experiments. **P*<0.05 *vs*. corresponding non-exposed control.

Supplemental figure S3