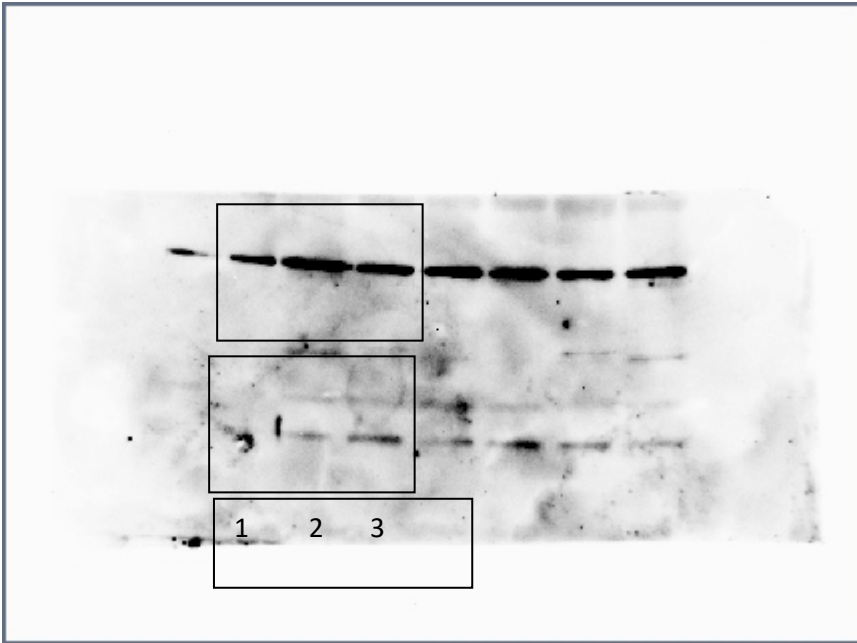


Supporting information S1

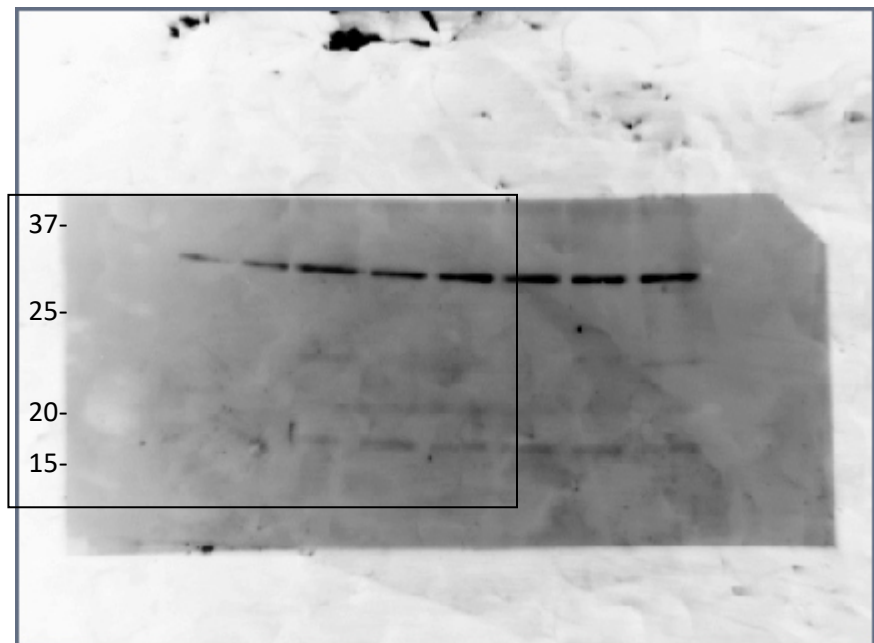
Original blots of Figs 1, 2, 3, 4

Figure 1C: Expression of caspase-3 in HUVEC exposed to NPs (0.25 mg/ml). Cells were exposed to the biomaterials for 24 h and then lysed. (1: Ctr; 2: CoFe_2O_4 ; 3: $\text{CoFe}_2\text{O}_4\text{-NH}_2$)

Representative blot of the first version of the paper:

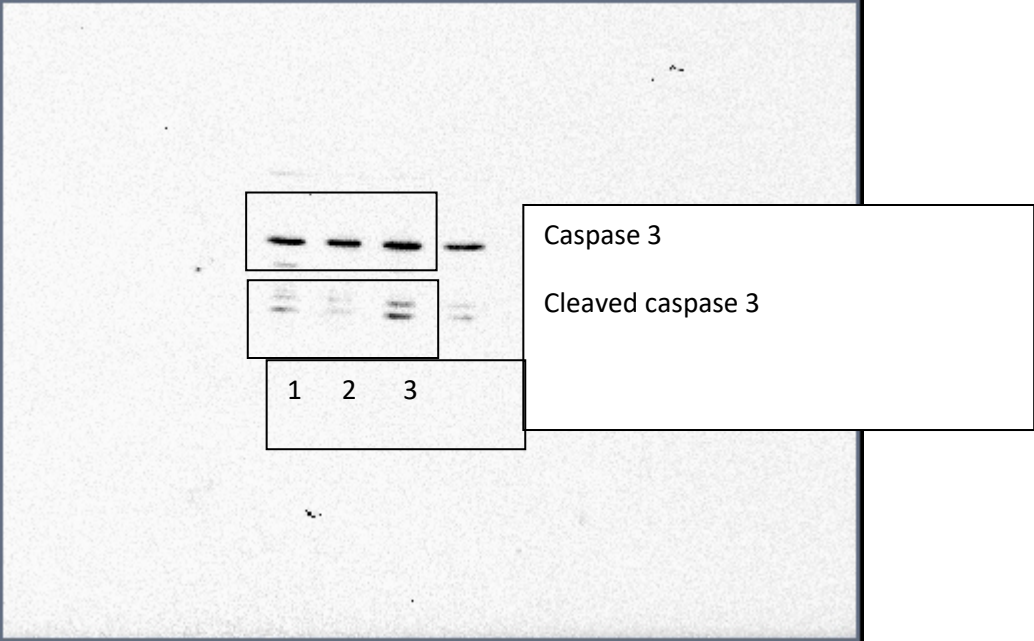


Blank:



Second representative image:

Cleaved caspase -3



Blank

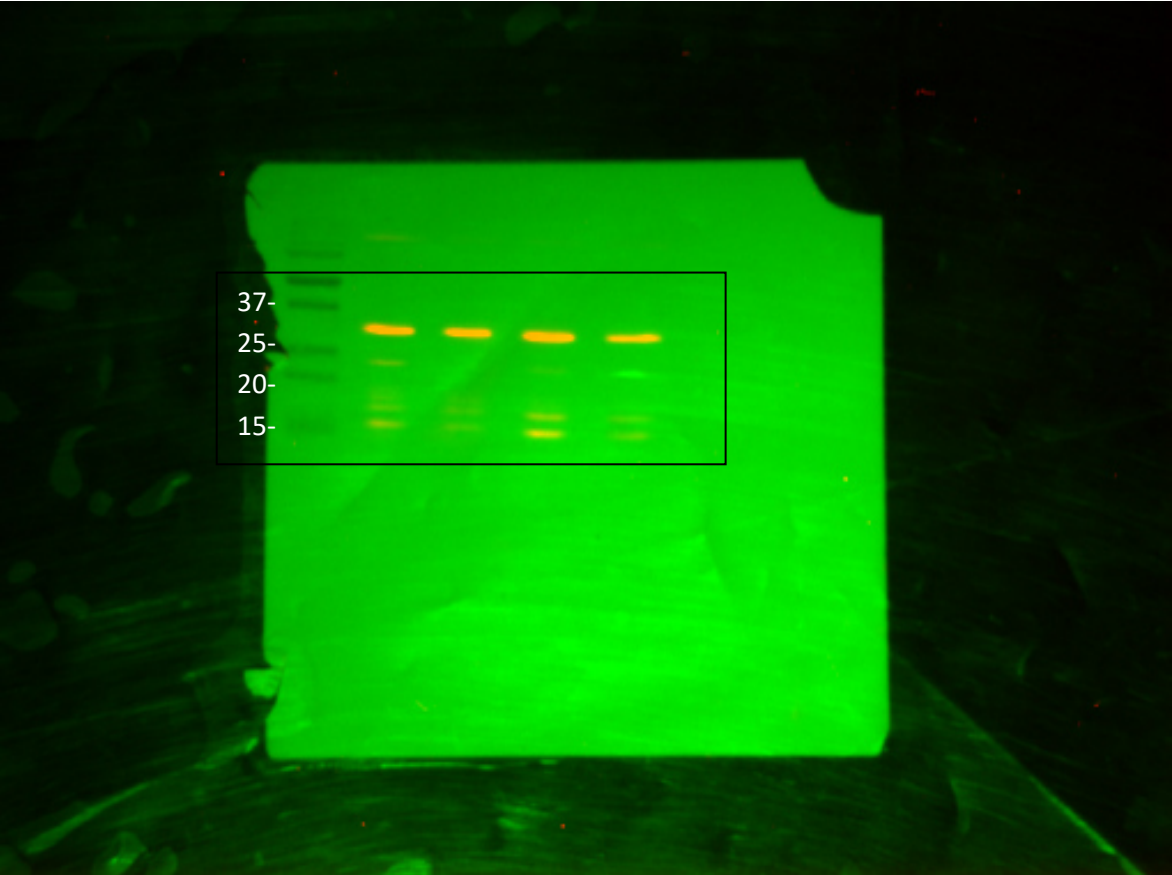
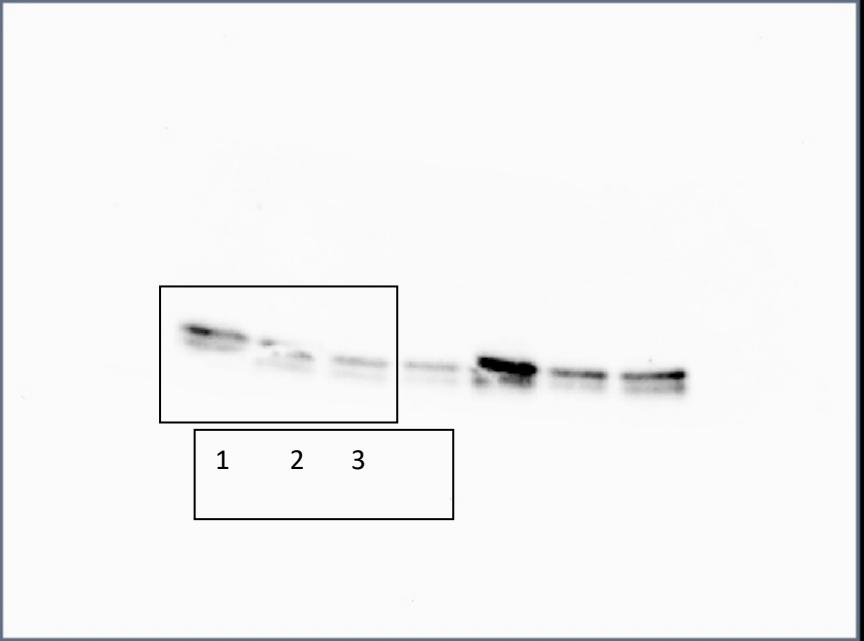


Figure 1E: Expression of p21 in HUVEC exposed to NPs (0.25 mg/ml). Cells were exposed to the biomaterials for 24 h and then lysed. (1: Ctr; 2: CoFe₂O₄; 3: CoFe₂O₄-NH₂)

P21



β-Actin:

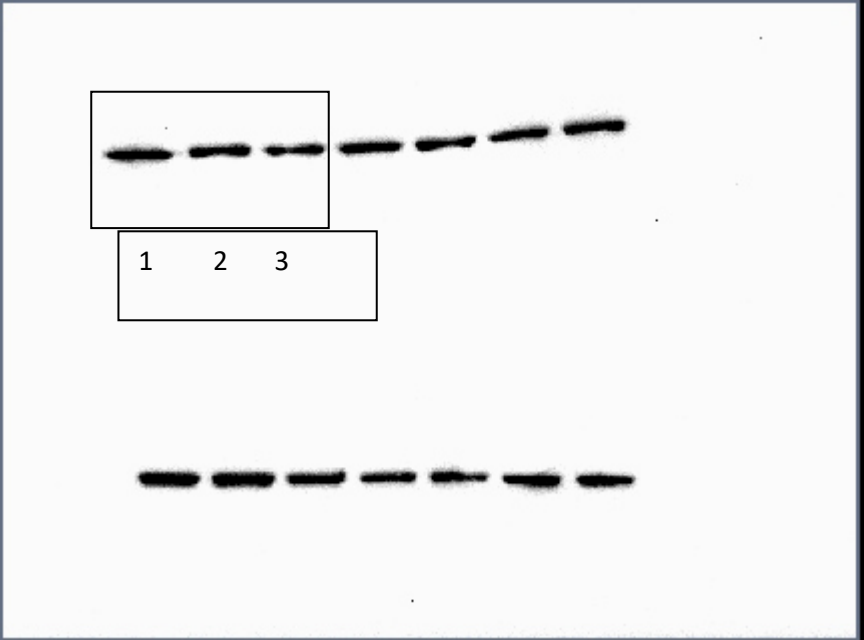


Figure 1F: Expression of p53 in HUVEC exposed to NPs (0.25 mg/ml) . Cells were exposed to the biomaterials for 24 h and then lysed. (1: Ctr; 2: CoFe₂O₄; 3. CoFe₂O₄-NH₂)

P53



β -Actin:

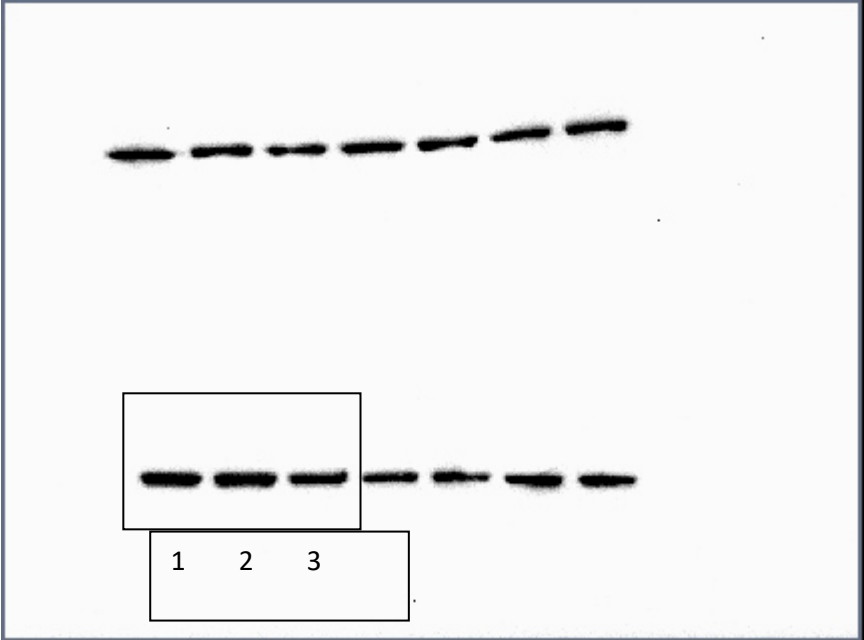
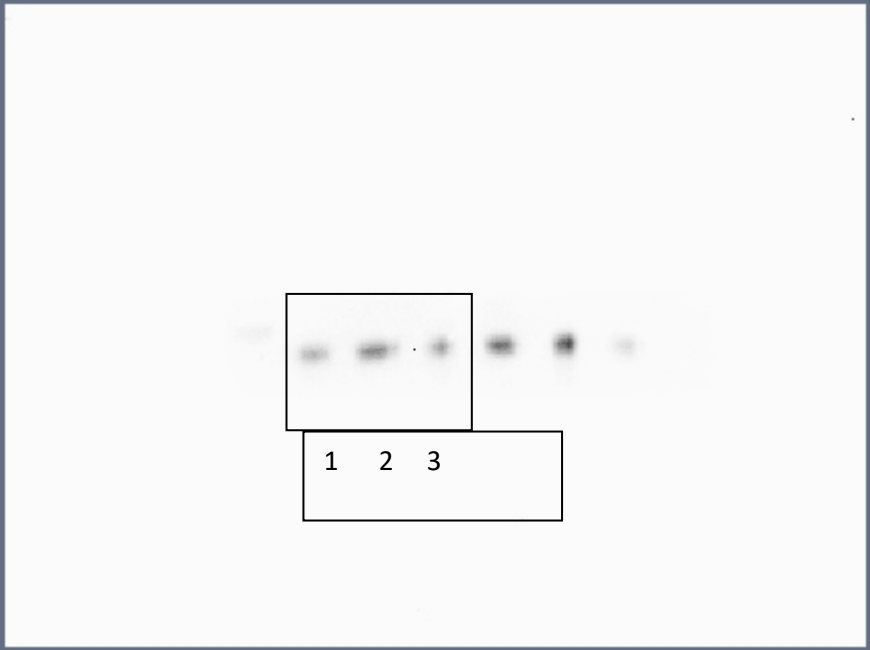
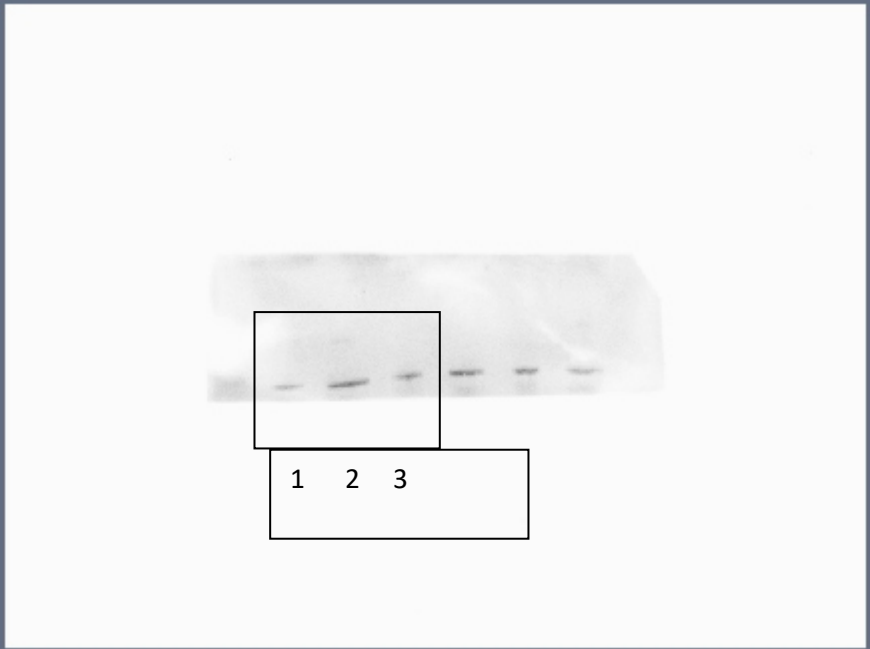


Fig 2D: Expression of COX-2 and iNOS in HUVEC exposed for 24 h to CoFe₂O₄ NPs or CoFe₂O₄-NH₂ NPs (0.25 mg/ml) measured by western blot. Blots are representative of 3 experiments with overlapping results. (1: Ctr; 2: CoFe₂O₄; 3. CoFe₂O₄-NH₂)

COX-2:



iNOS:



β -Actin:

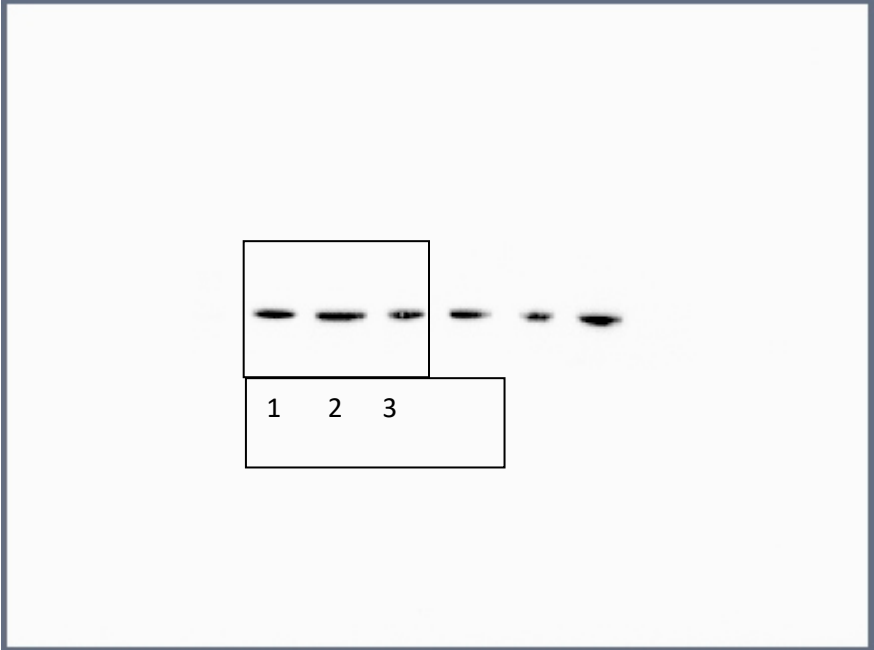


Fig 3C: Evaluation by western blot of the expression of cleaved caspase-3 in HUVEC exposed to CMC (1), CoFe₂O₄-CMC (2) or CoFe₂O₄-NH₂-CMC (3) (0.5 mg/ml) for 24 h.

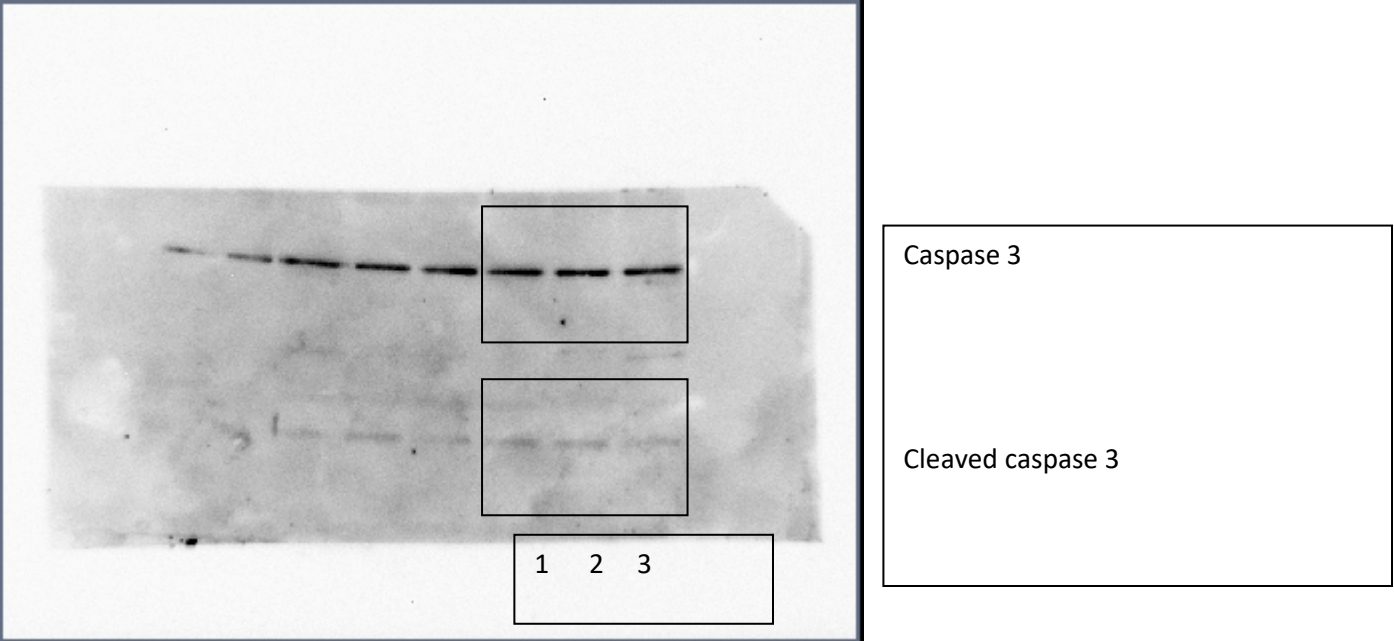
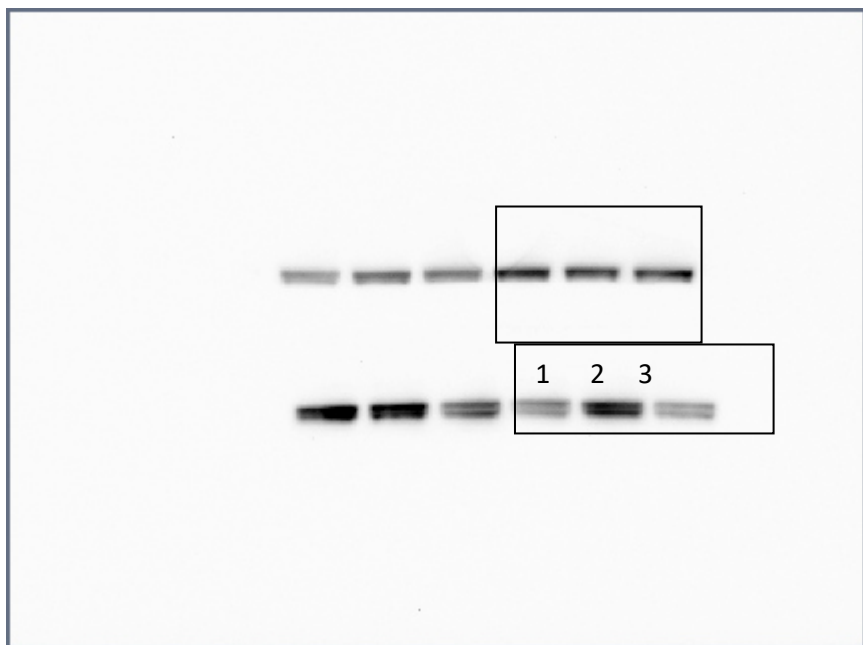
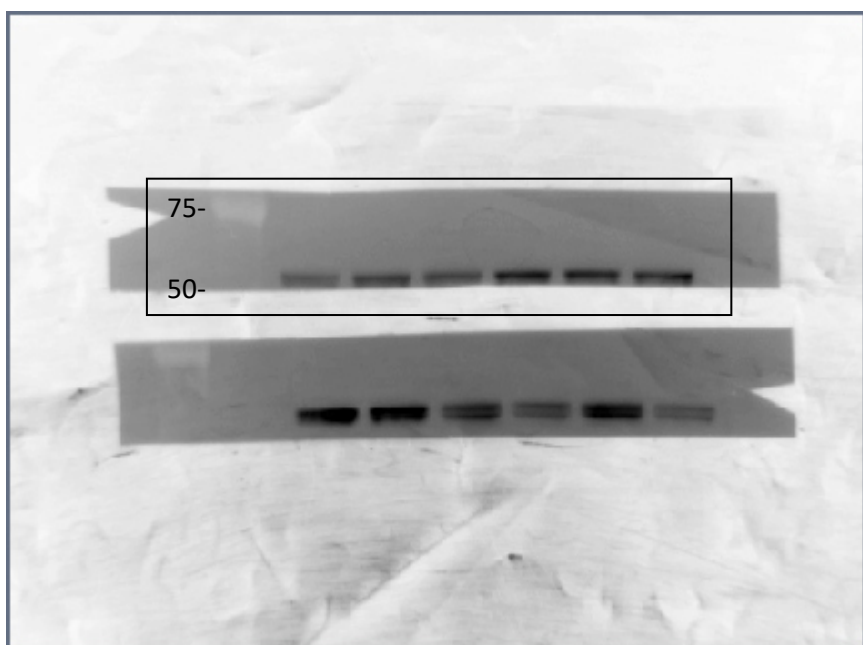


Fig 3E: Evaluation by western blot of the expression of p53 in HUVEC exposed to CMC (1), CoFe₂O₄-CMC (2) or CoFe₂O₄-NH₂-CMC (3) (0.5 mg/ml) for 24 h.

P53:



P53 bianco:



β -Actin:

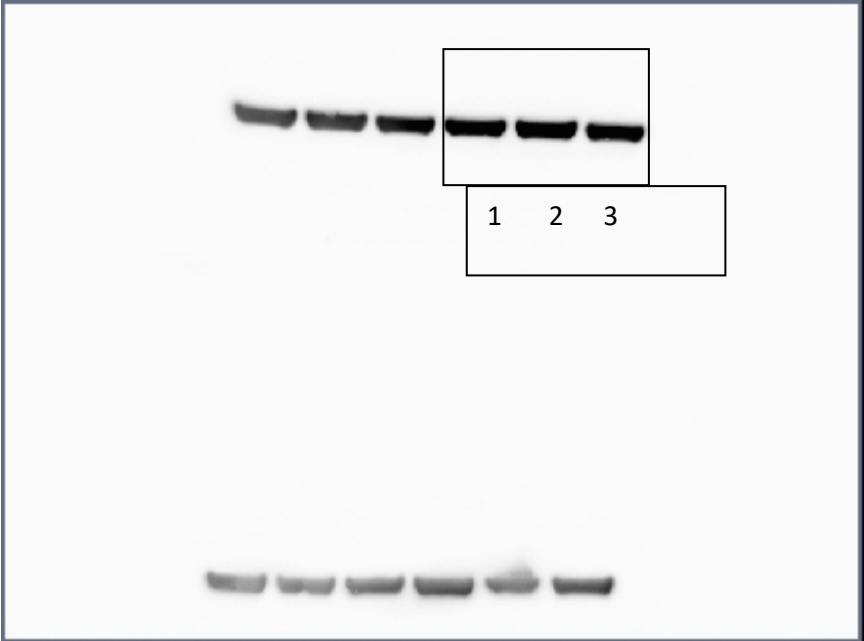
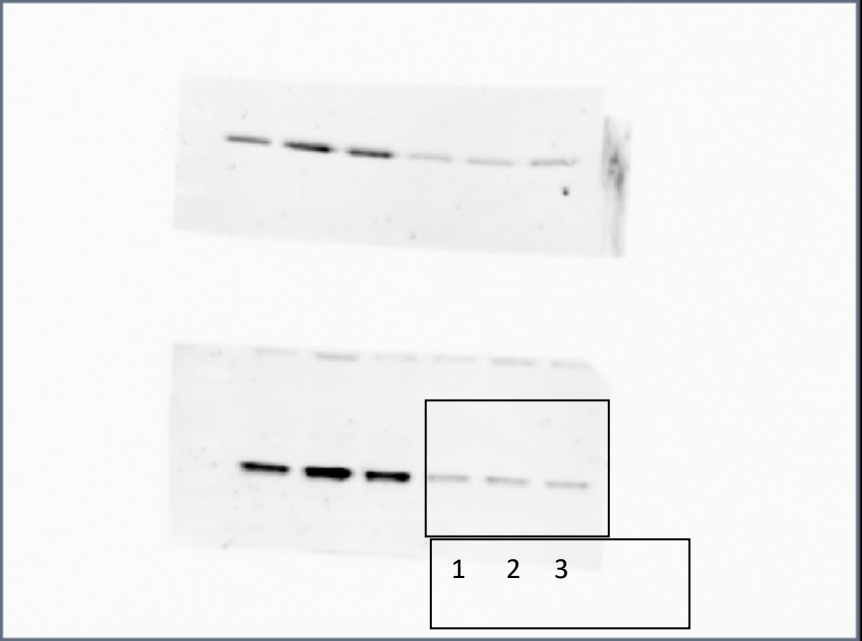
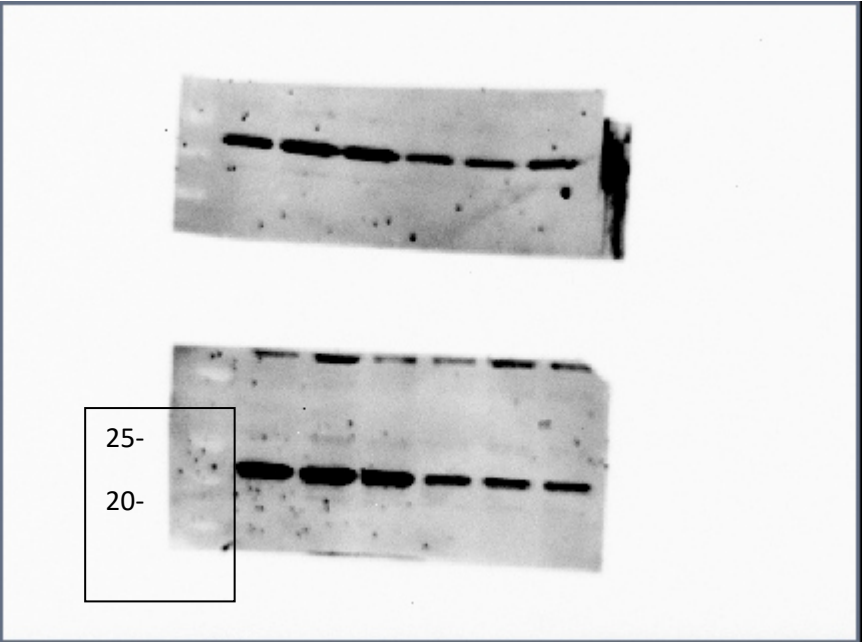


Fig 3F: Evaluation by western blot of the expression of p21 in HUVEC exposed to CMC (1), CoFe₂O₄-CMC (2) or CoFe₂O₄-NH₂-CMC (3) (0.5 mg/ml) for 24 h.

P21:



P21 bianco:



β -Actin:

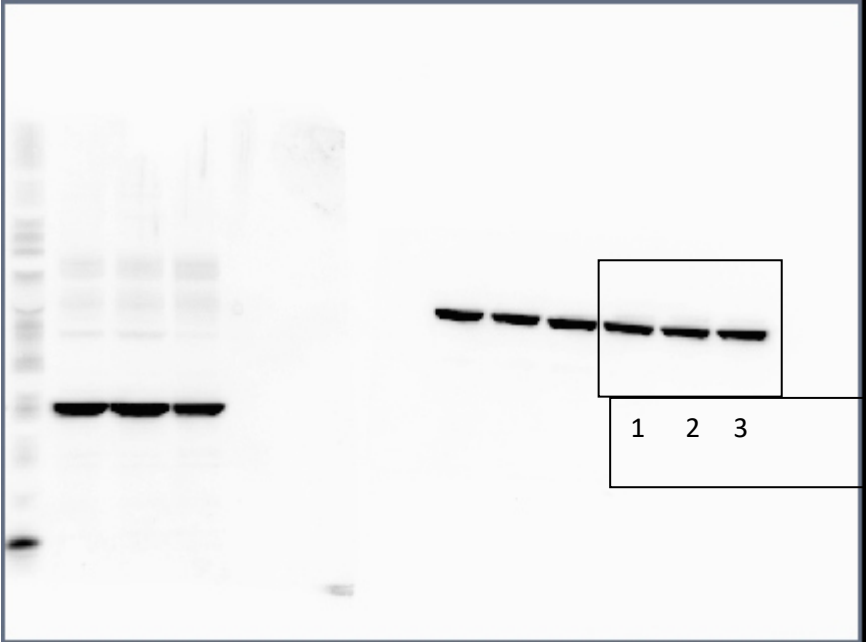
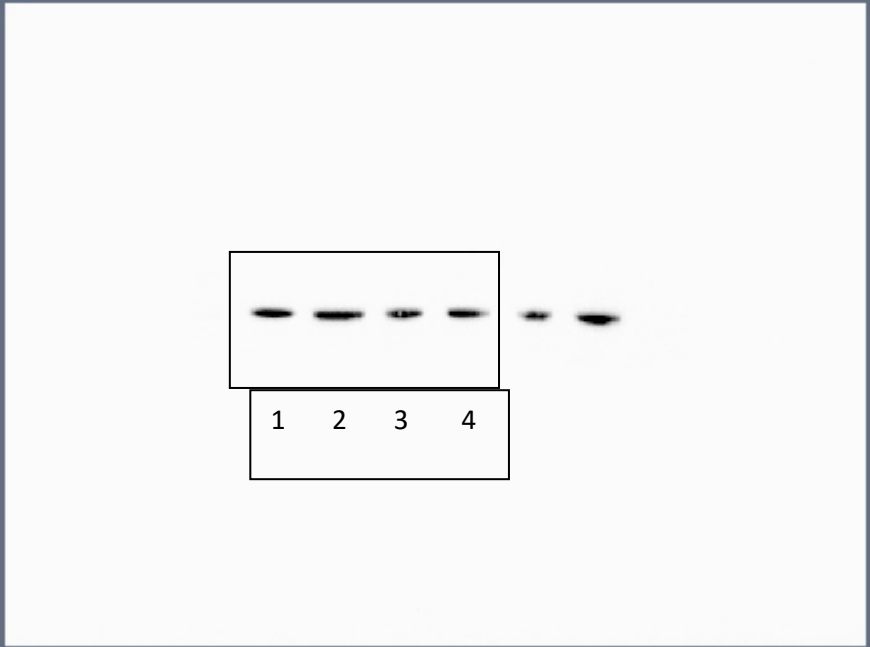
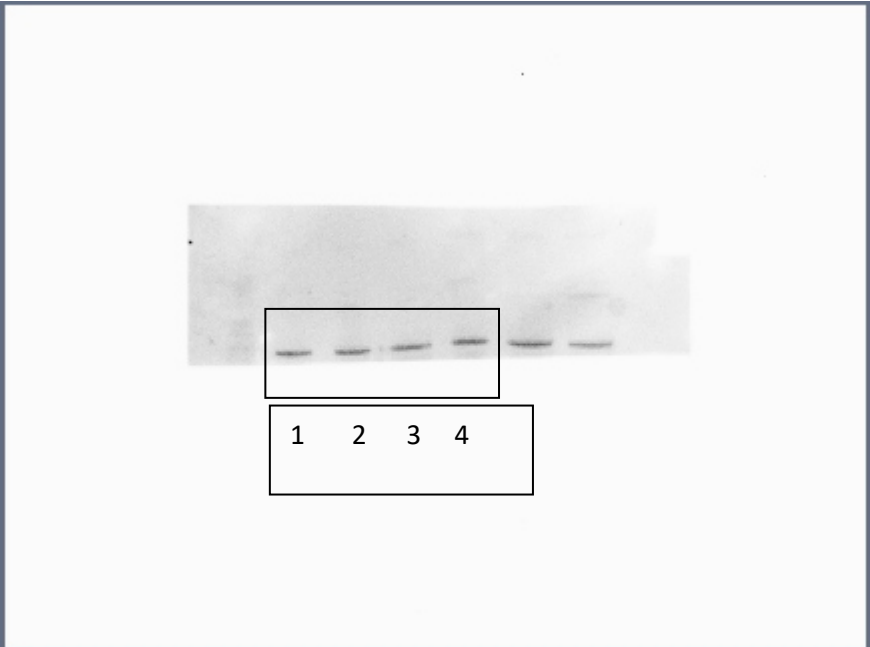


Fig 4B: Expression of COX-2 and iNOS in HUVEC exposed for 24 h to the biomaterials measured by western blot. (1. CMC, 2. CoFe₂O₄-CMC, 3. CoFe₂O₄-NH₂-CMC, 4. Ctr)

COX-2



iNOS



β -Actin:

