Supporting information

Protein corona formation and its influence on biomimetic magnetite nanoparticles

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Figure S1. (A) Transmission electron microscopy images of biomimetic magnetic nanoparticles (BMNPs). (B) Size distribution of BMNPs.
**Figure S2.** (A) Protein binding profiles of inorganic magnetite nanoparticles (MNPs). Protein constituents of full human plasma and BMNPs with and without doxorubicin (DOXO) coupled, followed by 1 or 24 h incubation with human plasma (PC-(DOXO)-MNPs 1 or 24 h). Proteins were separated by one-dimensional SDS-PAGE and visualized by Coomassie Brilliant Blue staining. (B) Protein constituents of inorganic magnetite nanoparticles (MNPs) bearing protein corona, as determined by trypsin peptide mass fingerprints recorded using MALDI-TOF-MS.
Figure S3. Elemental mapping by electron spectroscopy imaging – Transmission electron microscopy (ESI-TEM) (a-e) and electron energy loss spectroscopy (EELS) (f) of BMNPs either (A) outside or (B) inside the cells.
Figure S4. Primary human macrophages cultured with (A) BMNPs, (B) PC-BMNPs 1h and (C) PC-BMNPs 24 h after 4 h incubation at 37 ºC and 5% CO₂.