

Electronic supplementary information

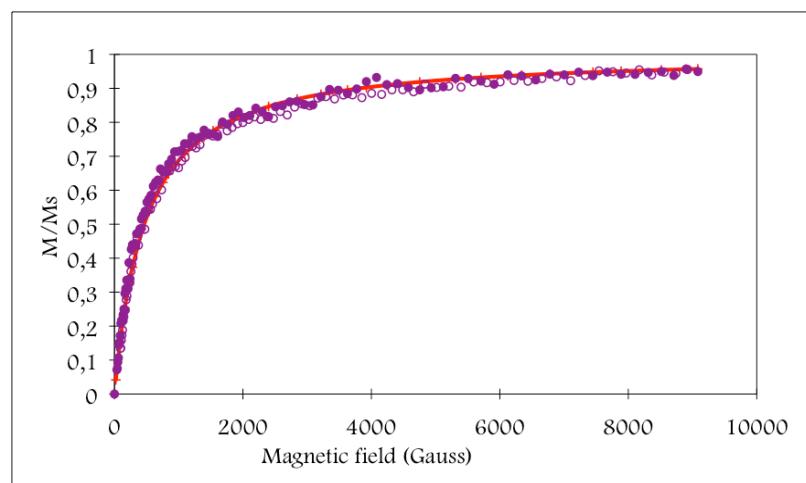


Figure S1. Magnetization curve of the starting maghemite USPIOs, full points: increasing magnetic field, empty points decreasing magnetic field

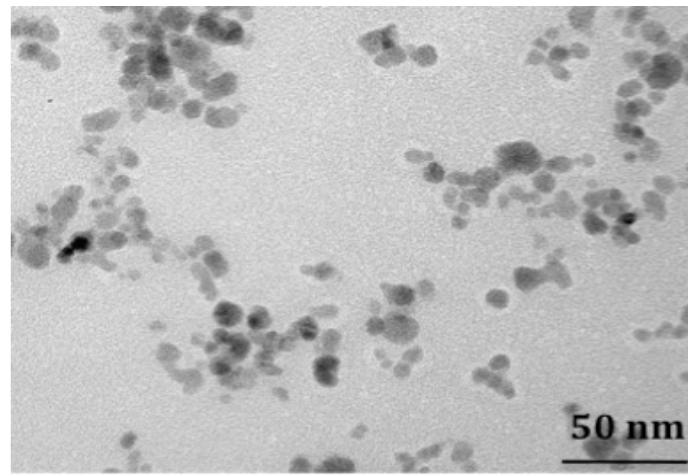


Figure S2. TEM micrograph of UCF nanoparticles. The bright circle observed around the nanoparticles is due to the polymer coating on the grid.

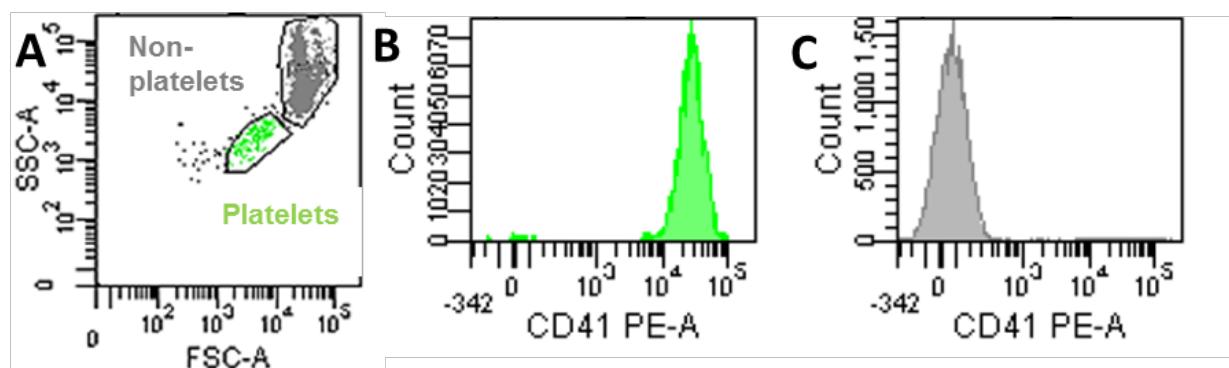


Figure S3. Morphologic (FSC/SSC) gating of platelets (green) by flow cytometry (A). FSC/SSC gated cells are almost exclusively platelets since most of them are CD41 positive (identified with a PE-conjugated anti-CD41 antibody) (B) while, as expected, the non-platelet cells (grey) were CD41 negative (C).

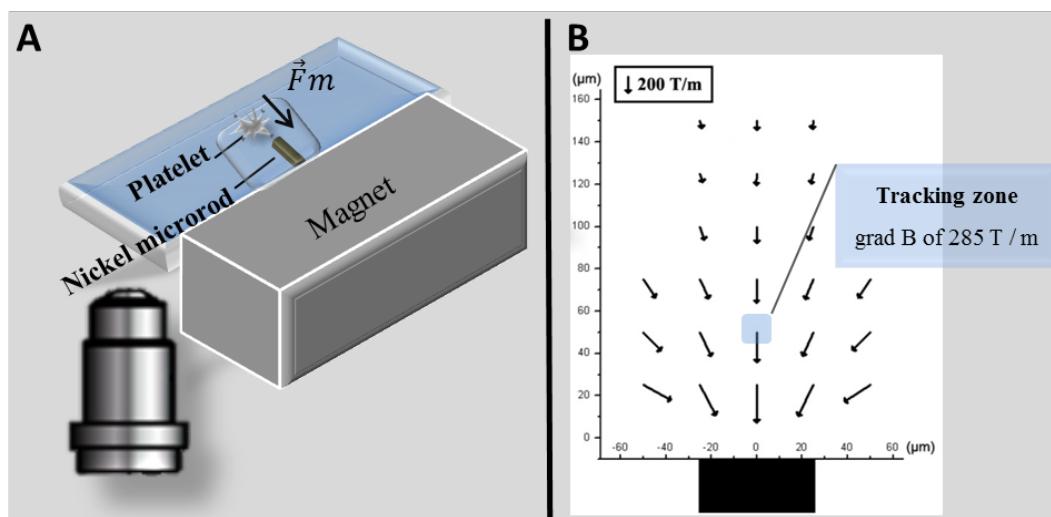


Figure S4. Micromagnetophoresis experimental set up. (A) Platelets are inserted in a glass slide/coverslip chamber integrating a 50 μm diameter nickel rod. Microrod magnetization is provided by a rectangular magnet positioned parallel to the micromagnet. (B) Cartography of the magnetic field lines created by the micromagnet.