

Supporting Information

Magnetite-Arginine Nanoparticles as a Multifunctional Biomedical Tool

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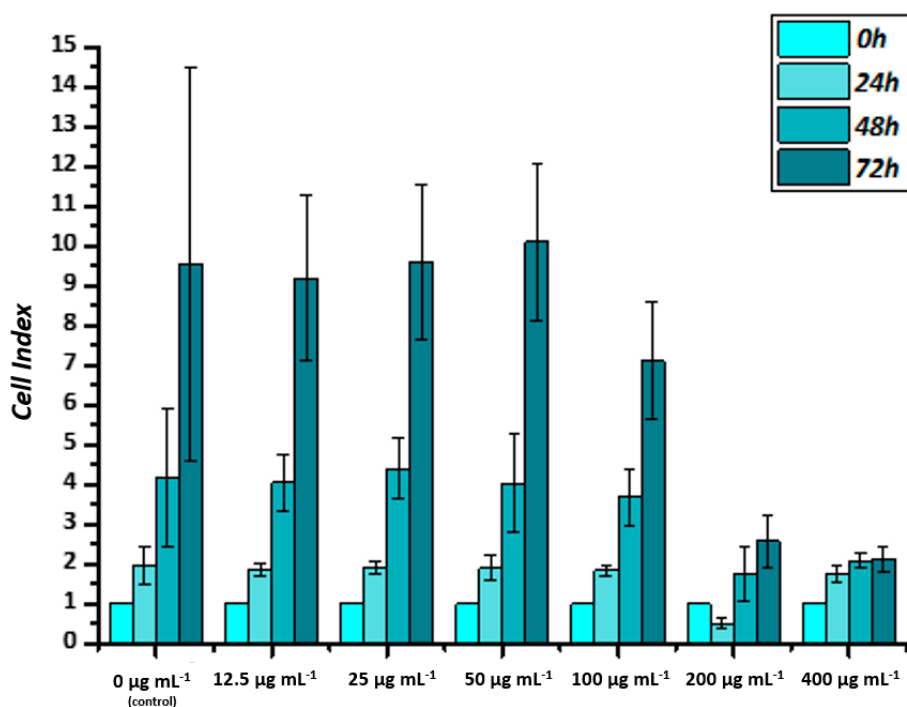


Figure S1. Biological effects of Resovist® particles on endothelial cells grown in static conditions by real-time cell analysis. HUVECs were seeded 24 h before nanoparticle application. After these initial 24 h, particles in different concentrations were added and cell index was monitored up to 72 h post application. Cell Index is displayed as x-fold of untreated controls. Data are expressed as mean ± SEM of n = 3 experiments.

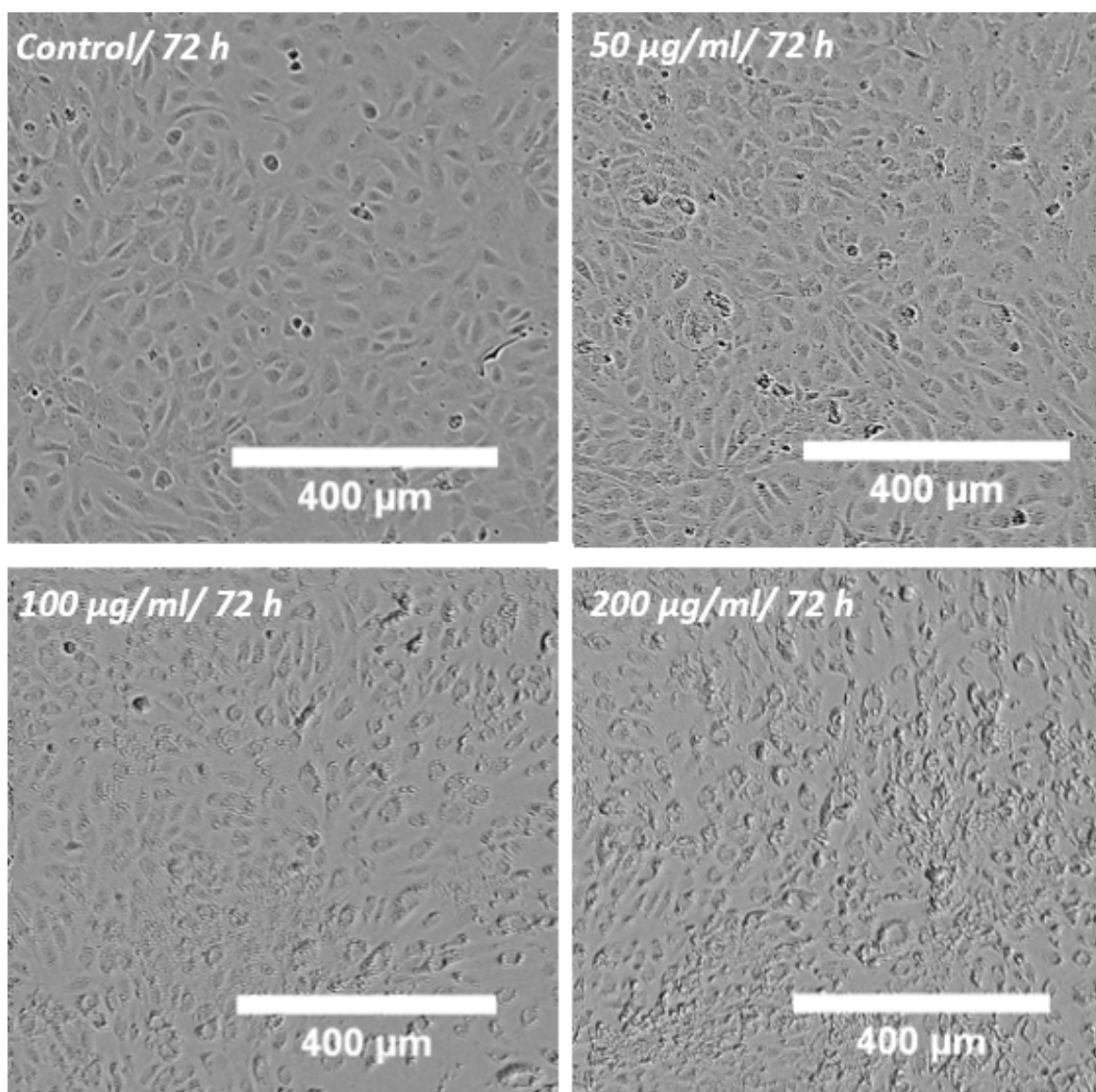


Figure S2. Live-cell microscopy of HUVECs treated with Resovist® particles: Phase contrast images of HUVECs were taken after 72 h post particle addition. (a) Untreated control HUVECs, (b) HUVECs treated with $50 \mu\text{g mL}^{-1}$, (c) HUVECs treated with $100 \mu\text{g mL}^{-1}$ and (d) HUVECs treated with $200 \mu\text{g mL}^{-1}$ Resovist® particles.

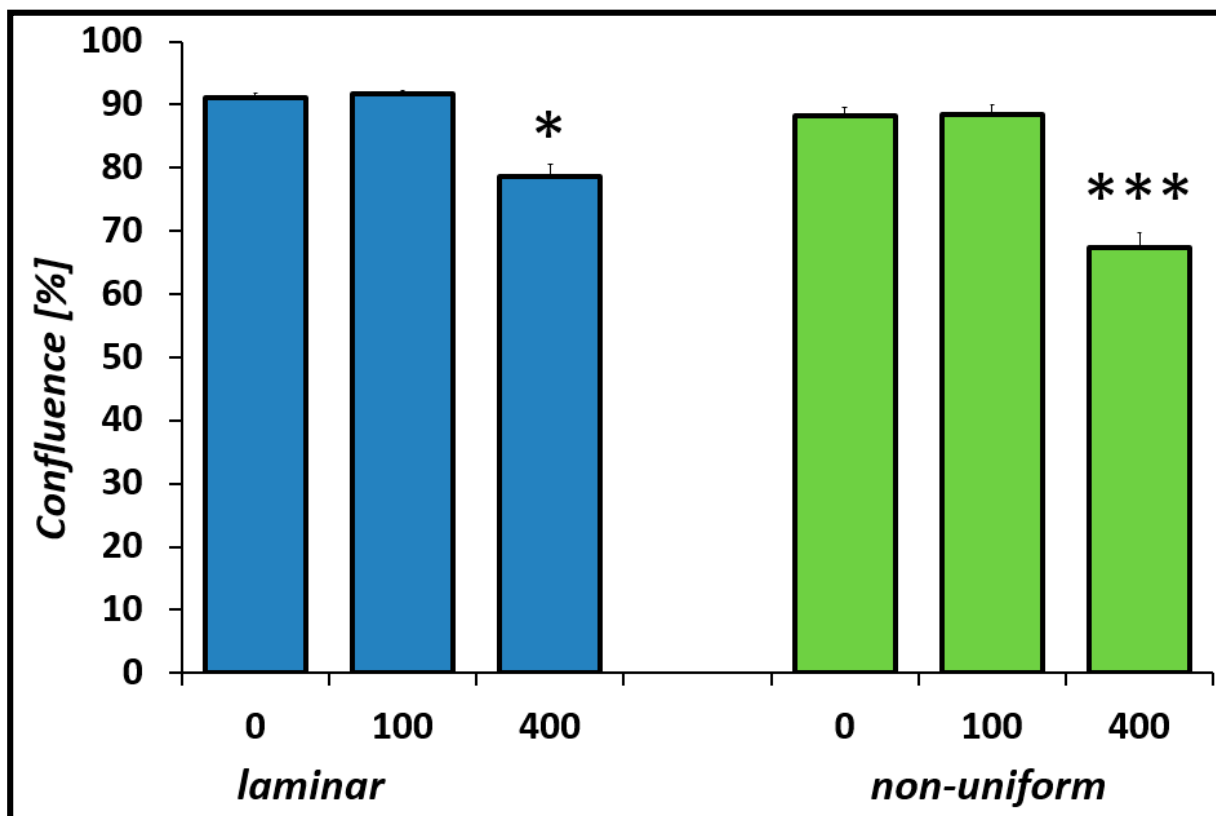


Figure S3. The graphs show the semi-quantitative analysis of confluence in non-uniform (green) and laminar (blue) region of the bifurcating channels according to the fluorescent images shown in Figure 4. The analysis was done using ImageJ software. n=3, Data are expressed as mean \pm SEM, *p<0.05, **p<0.01, ***p<0.001 vs. corresponding control (one-way Anova).