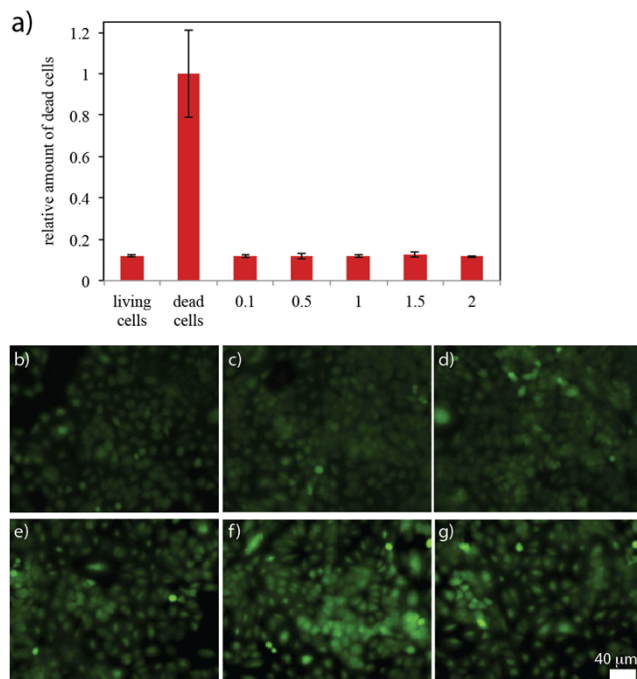


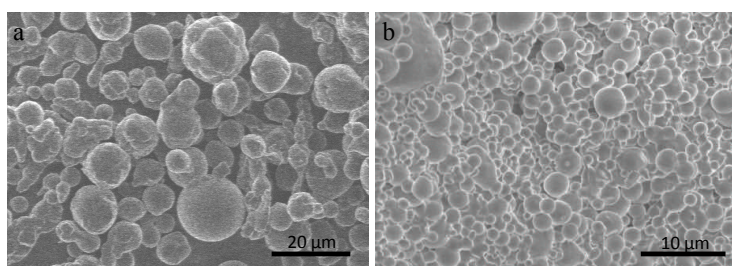
# Matrix metalloproteinase-sensitive hydrogel microparticles for pulmonary drug delivery of small molecule drugs or proteins.

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## Supplementary information



**Figure S1.** a) LDH assay, and Live/dead microscope images on A549 cells with concentration of PEG-peptide microparticles at b) 0 mg/mL, c) 0.1 mg/mL, d) 0.5 mg/mL, e) 1 mg/mL, f) 1.5 mg/mL, g) 2 mg/mL



**Figure S2.** SEM images of bare PEG-peptide microparticles obtained from an emulsion made a) with a vortex mixer, b) with a homogenizer. The mean diameter of the microparticles made with a vortex mixer is  $6.1 \pm 2.8 \mu\text{m}$  while it is  $2.2 \pm 0.8 \mu\text{m}$  for the microparticles made with a homogenizer.