Electronic Supplementary Material (ESI) for Materials Advances.

Supplementary information

Laser-based ion doping is a suitable alternative to dope biologically active ions into colloidal bioglass nanoparticles

Pichaporn Sutthavas[a], Matthias Schumacher[a], Martyna Nikody[a,b], Vaijayanthi Ramesh[c], Jurij Jakobi[c], Elizabeth R. Balmayor[a,d], Pamela Habibovic[a], Christoph Rehbock[c], Stephan Barcikowski[†c] and Sabine van Rijt[†a]

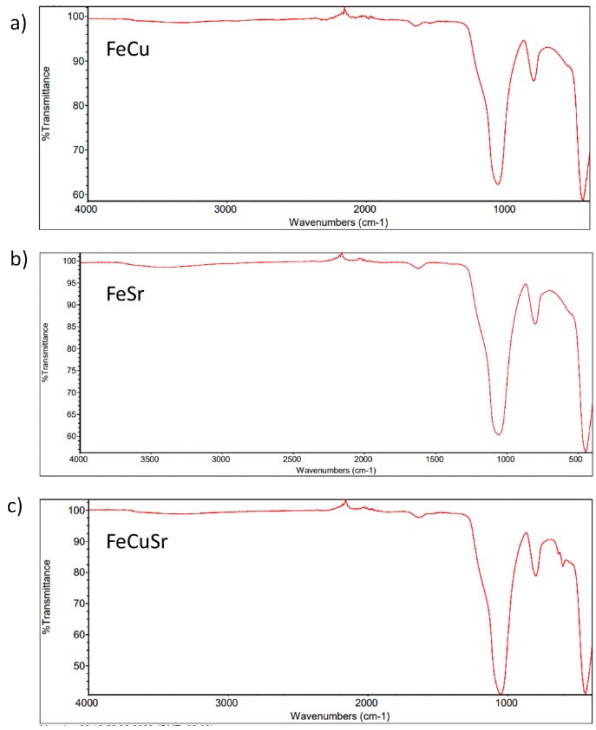

Figure S1. FTIR spectra of a) FeCu, b) FeSr, and c) FeCuSr

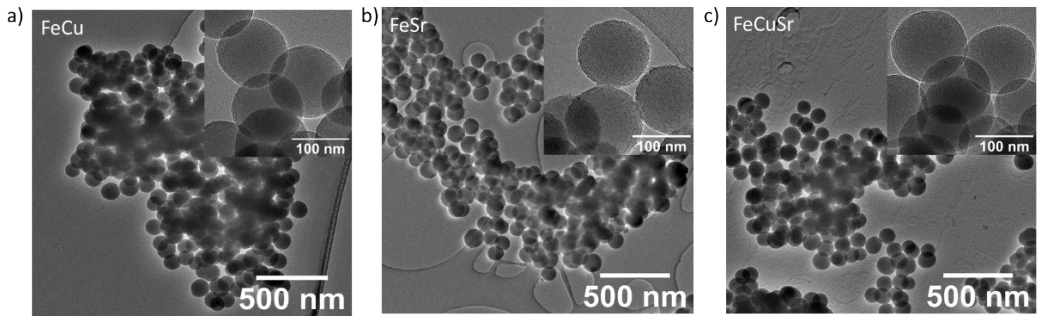

Figure S2. TEM images of a) FeCu, b) FeSr, and c) FeCuSr showing round spherical morphology

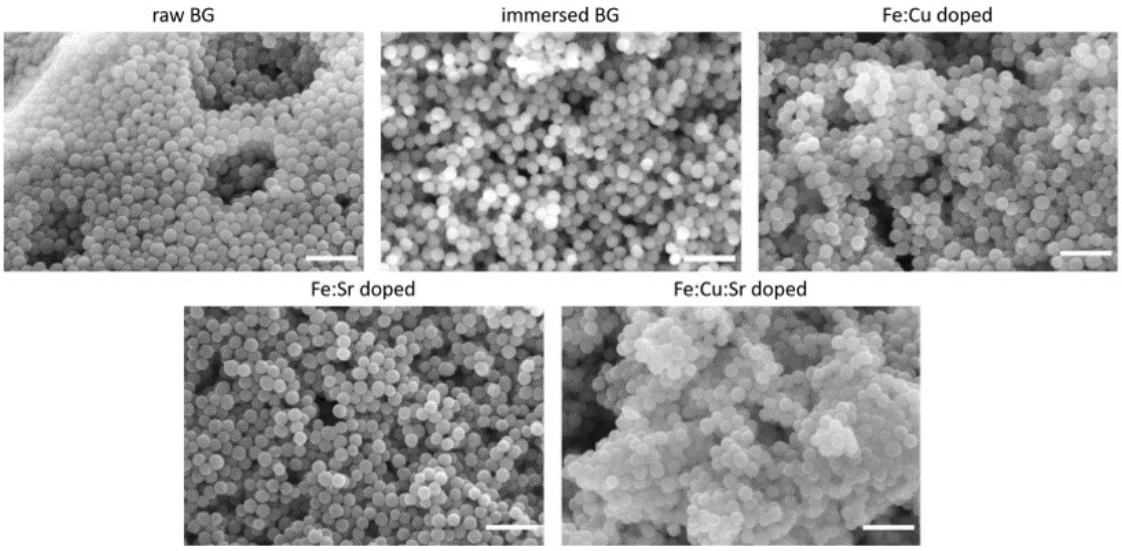

Figure S3 SEM images of nBG, immersed nBG, and FeCu, FeSr and FeCuSr doped nBG

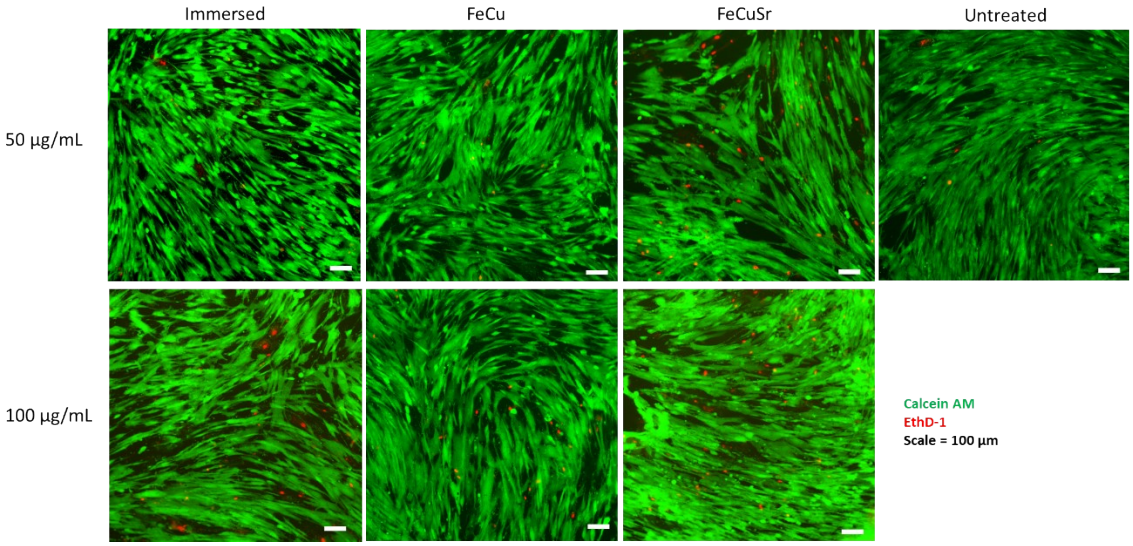

Figure S4. Representative fluorescence micrographs of human mesenchymal stem cells exposed to 50 and 100 µg/mL of FeCu, FeCuSr and Immersed nBGs for 72 hours and stained with calcein-AM (to stain live cells) and ethidium bromide (EthD-1, to stain dead cells). Scale bar is 100 µm.