Supporting Information:

Characteristics of Three Sizes of Silica Nanoparticles in Osteoblastic Cell Line, MC3T3-E1

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| | Zeta potential (mV) |
|--------------------|---------------------|
| SN121 ^a | -11.9 ± 0.6 |
| SN310 ^b | -12.7 ± 0.3 |
| $SN646^{c}$ | -13.8 ± 0.4 |

Table S1. Measurements of zeta-potential of SNs in the culture medium by dynamic

 light scattering.

^a SN121, 121 nm of silica nanoparticle.

^b SN310, 310 nm of silica nanoparticle.

° SN646, 646 nm of silica nanoparticle.