

Title: Supplementary Video 1.

Description: Intravital multiphoton imaging of skull bone tissues from Col2.3-ECFP mice. Left: an original video; cyan: mOBs and SOVs; blue: bone tissue, second harmonic generation. Right: a schematic video; cyan: mOBs; yellow balls: SOVs. mOBs are releasing and taking up SOVs. Scale bar: 5 μm . Playback speed = 1800 \times .

Title: Supplementary Video 2.

Description: In vitro imaging of primary osteoblasts releasing SOVs. Cyan: mOBs and SOVs. mOBs are releasing SOVs. Scale bar: 10 μm . Playback speed = 600 \times .

Title: Supplementary Video 3.

Description: In vitro imaging of primary osteoblasts taking up SOVs. Cyan: mOBs and SOVs. mOBs are taking up SOVs. Scale bar: 10 μm . Playback speed = 600 \times .

Title: Supplementary Video 4.

Description: In vitro imaging of primary osteoblasts from Col2.3-ECFP mice treated with PKH-labeled SOVs. Cyan: mOBs; red: PKH-labeled SOVs. mOBs are taking up PKH-labeled SOVs. Scale bar: 10 μm . Playback speed = 600 \times .

Title: Supplementary Video 5.

Description: In vitro imaging of primary osteoblasts from Col2.3-ECFP mice treated with PKH-labeled SOVs. Cyan: mOBs; red: PKH-labeled SOVs. mOBs are taking up PKH-labeled SOVs. Scale bar: 10 μm . Playback speed = 600 \times .