

Legends to the Supplementary Movies are described below:

Supplementary Movie 1: 3-D visualization of an injured tibialis anterior muscle treated with a non-targeting control vector

Three-dimensional rendering of injured skeletal muscle treated with non-targeting control vector using Second Harmonic Generation imaging. The auto-fluorescence of muscle fibers is pseudo-colored in green and collagen is pseudo-colored in red.

Supplementary Movie 2: 3-D visualization of an injured tibialis anterior muscle treated with α -Klotho shRNA

Three-dimensional rendering of injured skeletal muscle treated with shRNA to α -Klotho using Second Harmonic Generation imaging. The auto-fluorescence of muscle fibers is pseudo-colored in green and collagen is pseudo-colored in red.