

## STEM CELLS THAT PRODUCE DECORIN

<u>Guilak, Farshid, Pferdehirt, Lara</u> <u>Richards, Jennifer</u>

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Using CRISPR-based gene editing, decorin was inserted downstream of Smad7 to create autoregulated stem cells that can produce decorin. As Smad7 is activated during TGF-beta signaling, the stems cells produce decorin in response to TGF-beta. Decorin is a key modulator of extracellular matrix assembly and has been shown to have anti-fibrotic properties.