

THE DISTILLERY

This week in therapeutics

Indication	Target/marker/ pathway	Summary	Licensing status	Publication and contact information
Musculoskeletal disease				
Bone repair	Peroxisome proliferation– activated receptor-γ (PPARG; PPARγ)	In vitro and mouse studies suggest that inhibiting PPARy could increase the bone repair capacity of mesenchymal stem cells (MSCs). In vitro, a PPARy inhibitor promoted differentiation of human MSCs into osteoblasts with cell yields greater than those for control MSCs not given the inhibitor. In a mouse model of cranial bone damage, PPARy- incubated human MSC transplants increased bone repair and decreased rejection-associated chemokine signaling compared with control MSC transplants. Future studies could include testing PPARy-incubated MSC transplants in other animal models of bone repair.	Patent and licensing status unavailable	Krause, U. <i>et al. Proc. Natl. Acad.</i> <i>Sci. USA</i> ; published online Jan. 25, 2010; doi:10.1073/pnas.0914360107 Contact: Carl A. Gregory, Texas A&M Health Science Center, Temple, Texas e-mail: cgregory@medicine.tamhsc.edu

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