

This week in therapeutics

Indication	Target/marker/ pathway	Summary	Licensing status	Publication and contact information
Musculoskeletal disease				
Musculoskeletal disease	Cytoglobin (CYGB)	<i>In vitro</i> and mouse studies suggest increasing CYGB expression could help treat muscle injury. In mouse myoblasts, siRNA against <i>Cygb</i> increased reactive oxygen species levels and apoptotic cell death compared with siRNA control, whereas overexpression of <i>Cygb</i> decreased both. In mice, skeletal muscle-specific <i>Cygb</i> knockout impaired postinjury regeneration of muscle and differentiation and proliferation of myogenic progenitor cells. Next steps include additional studies to determine the mechanism of CYGB activity.	Patent application filing in progress; licensing status not applicable	Singh, S. <i>et al. Proc. Natl. Acad. Sci. USA</i> ; published online Dec. 23, 2013; doi:10.1073/pnas.1314962111 Contact: Pradeep P.A. Mammen, The University of Texas Southwestern Medical Center, Dallas, Texas e-mail: pradeep.mammen@utsouthwestern.edu Contact: Beverly A. Rothermel, same affiliation as above e-mail: beverly.rothermel@utsouthwestern.edu
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