This week in therapeutics

Indication	Target/marker/ pathway	Summary	Licensing status	Publication and contact information
Neurology				
Nerve damage	Kruppel-like factor 4 (KLF4)	<i>In vitro</i> and rodent studies suggest that inhibiting <i>KLF4</i> could restore the regenerative capacity of neurons to help treat CNS injury. In rat embryonic retinal ganglion cells, <i>Klf4</i> overexpression decreased neurite outgrowth and branching. In mice, <i>Klf4</i> knockout led to greater neurite growth following optic nerve injury than that in wild-type controls. Next steps include developing gene therapy vectors and identifying compounds that activate or repress the pathways.	Provisional patent application filed for nervous system applications; available for licensing for CNS regeneration	Moore, D. <i>et al. Science</i> ; published online Oct. 8, 2009; doi:10.1126/science.1175737 Contact: Jeffrey L. Goldberg, Miller School of Medicine at University of Miami, Miami, Fla. e-mail: jgoldberg@med.miami.edu
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