



This week in therapeutics

Indication	Target/marker/ pathway	Summary	Licensing status	Publication and contact information
Neurology				
Alzheimer's disease (AD)	Sterol O-acyltransferase 1 (SOAT1; ACAT1)	A study in mice suggests that antagonizing ACAT1 could help treat AD. In a transgenic mouse model of AD, <i>Acat1</i> knockout increased brain levels of the cholesterol byproduct 24(<i>S</i>)-hydroxycholesterol (24SOH) and reduced levels of neurotoxic β-amyloid (Aβ) compared with those in wild-type controls. In cultured hippocampal slices from the AD mice, adding back 24SOH decreased levels of amyloid-β precursor protein (APP), the precursor to neurotoxic Aβ. Next steps include developing brain-permeable ACAT1 inhibitors. ACAT1 inhibitors previously tested for cardiovascular indications include Pfizer Inc.'s CI 1011 and Daiichi Sankyo Co. Ltd.'s Pactimibe (CS-505). Both compounds are no longer in development.	Patents pending; available for licensing	Bryleva, E.Y. et al. Proc. Natl. Acad. Sci. USA; published online Jan. 26, 2010; doi:10.1073/pnas.0913828107 Contact: Ta-Yuan Chang, Dartmouth College, Hanover, N.H e-mail: ta-yuan.chang@dartmouth.edu
		SciBX 3(8); doi:10.1038/scibx.2010.250 Published online Feb. 25, 2010		