This week in therapeutics

Indication	Target/marker/pathway	Summary	Licensing status	Publication and contact information
Cancer				
Cancer	Lysine-specific demethylase 4A (KDM4A; JMJD2A); jun (AP1) proto-oncogene	Cell culture and mouse studies suggest inhibiting KDM4A could help treat metastatic squamous cell carcinoma (SCC). A small hairpin RNA screen against 27 histone demethylases (HDACs) in SCC cells showed that <i>KDM4A</i> knockdown decreased cellular invasion and expression of AP1 target genes compared with no knockdown. In an orthotopic mouse model for SCC, shRNA against <i>KDM4A</i> in implanted cells decreased metastasis compared with control shRNA. Next steps include testing KDM4A inhibitors in SCC models.	Unpatented; licensing status not applicable	Ding, X. <i>et al. Sci. Signal.</i> ; published online April 30, 2013; doi:10.1126/scisignal.2003884 Contact: Cun-Yu Wang, University of California, Los Angeles, Calif. e-mail: cunywang@ucla.edu
<i>SciBX</i> 6(21); doi:10.1038/scibx.2013.513 Published online May 30, 2013				