This week in therapeutics

Indication	Target/marker/pathway	Summary	Licensing status	Publication and contact information
Cancer				
Breast cancer	Euchromatic histone-lysine N-methyltransferase 2 (EHMT2; G9A); DNA methyltransferase	<p>Cell culture and mouse studies suggest blocking both G9A histone methyltransferase activity and its interactions with DNA methyltransferases could help treat breast cancer.</p> <p>In a mouse xenograft model of breast cancer, small hairpin RNA-mediated knockdown of G9A lowered tumor growth and metastasis compared with G9A expression. In cultured breast cancer cells, G9A shRNA decreased a DNA methyltransferase-mediated interaction associated with epithelial-to-mesenchymal transition compared with control shRNA. Next steps include screening for small molecules that disrupt the interaction of G9A with DNA methyltransferases.</p> <p>SciBX 5(13); doi:10.1038/scibx.2012.329 Published online March 29, 2012</p>	Unpatented; licensing status not applicable	<p>Dong, C. <i>et al. J. Clin. Invest.</i>; published online March 12, 2012; doi:10.1172/JCI57349</p> <p>Contact: Binhua P. Zhou, University of Kentucky College of Medicine, Lexington, Ky. e-mail: peter.zhou@uky.edu</p>