This week in therapeutics

Indication	Target/marker/pathway	Summary	Licensing status	Publication and contact information
Cancer				
Breast cancer	RAR-related orphan receptor A (RORA); semaphorin 3F (SEMA3F)	<p>Mouse and patient sample studies suggest increasing RORA signaling through SEMA3F could treat breast cancer. In a mouse xenograft model of breast cancer, induction of RORA expression delayed tumor growth and led to the formation of smaller tumors compared with what was seen using vector control. In a cultured human breast cancer cell line expressing RORA, small interfering RNA against SEMA3F restored tumor cell invasiveness compared with control siRNA. In a panel of 259 patient samples, low expression of RORA and SEMA3F was associated with disease progression and reduced survival. Next steps include evaluating the function of RORA and SEMA3F in a transgenic mouse model of cancer.</p> <p>SciBX 5(11); doi:10.1038/scibx.2012.277 Published online March 15, 2012</p>	Unpatented; unavailable for licensing	<p>Xiong, G. <i>et al. Cancer Res.</i>; published online Feb. 20, 2012; doi:10.1158/0008-5472.CAN-11-2762 Contact: Ren Xu, University of Kentucky, Lexington, Ky. e-mail: ren.xu2010@uky.edu</p>