This week in therapeutics

Indication	Target/marker/pathway	Summary	Licensing status	Publication and contact information
Cancer				
Sarcoma	Procollagen-lysine 2-oxoglutarate 5-dioxygenase 2 (PLOD2); hypoxia-inducible factor 1 α (HIF1A; HIF1 α)	<p>Studies in human samples and mice suggest inhibiting PLOD2 could help prevent metastasis in patients with sarcoma. In the tumor microenvironment, PLOD2 is upregulated by HIF1A. In mouse models of sarcoma, small hairpin RNA against <i>Hif1a</i> or <i>Plod2</i> or pharmacological inhibition of Plod2 signaling all decreased pulmonary metastasis compared with scrambled shRNA or no inhibition. In human sarcoma samples, HIF1A and PLOD2 expression were greater in metastatic tumors than nonmetastatic tumors. Next steps could include testing PLOD2 inhibition in additional animal models of sarcoma.</p> <p>SciBX 6(34); doi:10.1038/scibx.2013.927 Published online Sept. 5, 2013</p>	Patent and licensing status unavailable	<p>Eisinger-Mathason, T.S.K. <i>et al. Cancer Discov.</i>; published online Aug. 1, 2013; doi:10.1158/2159-8290.CD-13-0118</p> <p>Contact: M. Celeste Simon, University of Pennsylvania, Philadelphia, Pa. e-mail: celeste2@mail.med.upenn.edu</p>