

This week in therapeutics

Indication	Target/marker/pathway	Summary	Licensing status	Publication and contact information
Cancer				
Breast cancer	Tripartite motif containing 37 (TRIM37)	<p><i>In vitro</i> and mouse studies suggest inhibiting TRIM37 could help treat breast cancer. TRIM37 is located within 17q23, a chromosomal region frequently amplified in breast cancers. In human breast cancer cell lines, TRIM37 ubiquitinated histone H2A and silenced tumor suppressor genes. In mice bearing 17q23-amplified xenograft breast tumors, tumor-targeted shRNA against TRIM37 decreased tumor formation and growth compared with an inactive control shRNA. In mouse embryonic fibroblasts, ectopic expression of wild-type TRIM37 induced tumor formation, whereas a catalytically dead mutant TRIM37 did not. Next steps could include designing and testing a TRIM37 inhibitor.</p> <p>SciBX 7(48); doi:10.1038/scibx.2014.1400 Published online Dec. 18, 2014</p>	Patent and licensing status unavailable	<p>Bhatnagar, S. <i>et al. Nature</i>; published online Nov. 24, 2014; doi:10.1038/nature13955</p> <p>Contact: Michael R. Green, University of Massachusetts Medical School, Worcester, Mass. e-mail: michael.green@umassmed.edu</p>