This week in techniques

Approach	Summary	Licensing status	Publication and contact information
Disease models			
Genetically defined triple-knockout mouse model of high-grade superficial bladder cancer	<p>A triple-knockout mouse model of bladder cancer could be useful for studying disease biology and evaluating new candidate therapies for high-grade superficial bladder cancer. Adult mice with conditional deletion of <i>retinoblastoma 1</i> (<i>Rb1</i>), <i>retinoblastoma-like 2</i> (<i>Rbl2</i>; <i>p130</i>) and <i>Rbl1</i> (<i>p107</i>) developed lesions in the bladder lumen with histological features that recapitulated high-grade, nonmuscle-invasive carcinoma. Genomic analysis of tumor samples from the models and from patients identified an RB-E2F-enhancer of zeste homolog 2 (EZH2) signaling axis that drove cancer development. Next steps include evaluating inhibitors of EZH2 signaling in the mouse model.</p> <p>SciBX 7(41); doi:10.1038/scibx.2014.1213 Published online Oct. 23, 2014</p>	Unpatented; model available under materials transfer agreement	<p>Santos, M. <i>et al. Cancer Res.</i>; published online Sept. 24, 2014; doi:10.1158/0008-5472.CAN-14-1218 Contact: Jesus M. Paramio, The Research Center for Energy, Environment and Technology (CIEMAT), Madrid, Spain e-mail: jesusm.paramio@ciemat.es</p>