This week in techniques

Approach	Summary	Licensing status	Publication and contact information
Drug platforms			
Structural and biochemical insights into human bromodomain-containing proteins for epigenetic drug discovery	<p>Structural and biochemical insights into bromodomains may help guide the development of drugs that target the protein family. Bromodomain-containing proteins recognize epigenetic modifications and bind to acetylated histones to modulate gene transcription. X-ray crystal structures were solved for 29 of the 61 human bromodomain-containing proteins. <i>In vitro</i> binding assays determined the affinities of 33 bromodomain-containing proteins for peptides representing all possible acetylated histone sites. Next steps include developing selective inhibitors of bromodomain-containing proteins, including ATPase family AAA domain containing 2 (ATAD2), as tool compounds.</p> <p>SciBX 5(18); doi:10.1038/scibx.2012.481 Published online May 3, 2012</p>	Unpatented; licensing status not applicable	<p>Filippakopoulos, P. <i>et al. Cell</i>; published online March 30, 2012; doi:10.1016/j.cell.2012.02.013 Contact: Stefan Knapp, University of Oxford, Oxford, U.K. e-mail: stefan.knapp@sgc.ox.ac.uk Contact: Panagis Filippakopoulos, same affiliation as above e-mail: panagis.filippakopoulos@sgc.ox.ac.uk</p>