This week in techniques

Approach	Summary	Licensing status	Publication and contact information
Assays & screens			
EnPlex, a high throughput flow cytometry platform to assess potency and selectivity of small molecule enzyme inhibitors	<p>The platform EnPlex could enable multiplexed, high throughput evaluation of the potency and selectivity of small molecule inhibitors of enzymes. In the assay, enzymes are coupled to differently colored polystyrene microspheres and competitive binding to small molecule inhibitors is assessed with a biotinylated activity-based probe. A two-laser flow cytometer identifies each enzyme by microsphere color, and a biotin-dependent colorimetric assay determines the degree of inhibition. In an analysis of 94 serine hydrolases, 55 known small molecule inhibitors yielded on-target IC₅₀ values consistent with published data but revealed previously unknown off-target interactions. Next steps could include adapting EnPlex for additional enzyme families.</p> <p>SciBX 7(31); doi:10.1038/scibx.2014.933 Published online Aug. 14, 2014</p>	Patent and licensing status unavailable	<p>Bachovchin, D.A. <i>et al. Nat. Chem. Biol.</i>; published online July 6, 2014; doi:10.1038/nchembio.1578 Contact: Todd R. Golub, the Broad Institute of MIT and Harvard, Cambridge, Mass. e-mail: golub@broadinstitute.org</p>