This week in techniques

Approach	Summary	Licensing status	Publication and contact information
Assays & screens			
One-bead, one-compound peptoid-encoded α -helix mimetic library to identify chaperones or inhibitors of protein-protein interactions	<p>Cell culture studies suggest a one-bead, one-compound peptoid-encoded α-helix mimetic library could be used to identify chaperones or inhibitors of α-helix-mediated protein-protein interactions. Each bead displays one of 1,458 triazine-piperazine-triazine-based α-helix mimetics on the outside and a peptoid coding tag on the inside, enabling identification of the corresponding inhibitory mimetic. A screen of the one-bead, one-compound library against the myeloid leukemia cell differentiation protein (MCL1) identified two MCL1-binding compounds that also antagonized the interaction between MCL1 and the proapoptotic protein Bcl2 homology domain 3 (BH3). A screen of the library against recombinant α-synuclein (SNCA) protein also identified two SNCA-binding compounds that delayed the onset of SNCA aggregation. Ongoing work includes optimizing the identified compounds and preparing more diverse and larger libraries of α-helix mimetics to screen against different targets.</p> <p>SciBX 7(31); doi:10.1038/scibx.2014.934 Published online Aug. 14, 2014</p>	Patented; available for licensing	<p>Oh, M. <i>et al. Proc. Natl. Acad. Sci. USA</i>; published online July 14, 2014; doi:10.1073/pnas.1320556111 Contact: Hyun-Suk Lim, Pohang University of Science and Technology, Pohang, South Korea e-mail: hslim@postech.ac.kr Contact: Quyen Q. Hoang, Indiana University School of Medicine, Indianapolis, Ind. e-mail: qqhoang@iu.edu</p>