

This week in techniques

Approach	Summary	Licensing status	Publication and contact information
Chemistry			
Production of N-methylated macrocyclic peptide libraries	A method for producing libraries of N-methylated macrocyclic peptides displayed on mRNA could be used to identify compounds targeting protein-protein interactions. A library of 10^{12} compounds was generated by <i>in vitro</i> translation and cyclization of mRNA-linked peptides. An <i>in vitro</i> screen of the library identified macrocycles that bound the ligase domain of ubiquitin protein ligase E3A (UBE3A; E6AP) with subnanomolar affinity. Ongoing work includes identifying macrocyclic inhibitors against a range of targets and looking at the activity of the molecules in cells and <i>in vivo</i> .	Work covered by patents and patent applications; exclusively licensed to PeptiDream Inc.	Yamagishi, Y. <i>et al. Chem. Biol.</i> ; published online Dec. 23, 2011; doi:10.1016/j.chembiol.2011.09.013 Contact: Hiroaki Suga, The University of Tokyo, Tokyo, Japan e-mail: hsuga@chem.s.u-tokyo.ac.jp
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