

This week in techniques

Approach	Summary	Licensing status	Publication and contact information
Drug platforms			
Cow-derived antibody scaffolds	<p>Structural analysis of bovine complementarity-determining regions (CDRs) could guide the development of new antibody libraries. Cows have distinct immunoglobulin features including long CDRs and limited variable regions, and the molecular basis of their antibody diversity is not well understood. A series of computational and structural experiments demonstrated that these long CDRs can form numerous disulfide bonds that generate structural diversity through folding into unusual stalk- or knob-shaped structures. Next steps include constructing libraries of cow antibodies to identify hits against potentially difficult targets.</p> <p>Fabrus LLC, which coauthored the study and was cofounded by Vaughn Smider, is developing antibody screening platforms based on the technology.</p> <p>SciBX 6(26); doi:10.1038/scibx.2013.671 Published online July 11, 2013</p>	Patent applications filed; unavailable for licensing	<p>Wang, F. <i>et al. Cell</i>; published online June 6, 2013; doi:10.1016/j.cell.2013.04.049 Contact: Vaughn V. Smider, The Scripps Research Institute, La Jolla, Calif. e-mail: vvsמידer@scripps.edu Contact: Ian A. Wilson, same affiliation as above e-mail: wilson@scripps.edu</p>