This week in techniques

Approach	Summary	Licensing status	Publication and contact information
Chemistry			
Total synthesis of mannopeptimycin aglycone to enable derivatization	<p>A method to synthesize mannopeptimycin aglycone could aid the development of derivatives of the cyclic hexapeptide for use against drug-resistant bacterial infections. Manno-peptimycin aglycone has previously been shown to have potent activity against drug-resistant bacteria. <i>In vitro</i>, building blocks of functionalized amino acids were synthesized in a one-step reaction from readily available compounds and then used to generate mannopeptimycin aglycone. Next steps could include synthesizing derivatives of mannopeptimycin aglycone via this method and profiling their antimicrobial activities.</p> <p>SciBX 7(34); doi:10.1038/scibx.2014.1022 Published online Sept. 4, 2014</p>	Patent and licensing status unavailable	<p>Fuse, S. <i>et al.</i> <i>J. Am. Chem. Soc.</i>; published online July 31, 2014; doi:10.1021/ja505105t Contact: Takayuki Doi, Tohoku University, Sendai, Japan e-mail: doi_taka@mail.pharm.tohoku.ac.jp Contact: Shinichiro Fuse, Tokyo Institute of Technology, Tokyo, Japan e-mail: sfuse@apc.titech.ac.jp</p>