This week in techniques

Approach	Summary	Licensing status	Publication and contact information
Imaging			
3D, carbonized polyacrylonitrile scaffolds to promote bone tissue regeneration	<p>3D, carbonized polyacrylonitrile scaffolds could be useful for promoting bone repair and regeneration. The scaffold is created by electrospinning polyacrylonitrile onto water, which then gets lyophilized, carbonized and modified into a 3D cylindrical structure. In mice with calvarial bone defects, bone grafts using the 3D, carbonized polyacrylonitrile scaffolds showed greater bone formation and regeneration than equivalent grafts that use a control 3D scaffold made from poly(L-lactic acid). Next steps could include evaluating bone grafts that use the carbonized polyacrylonitrile scaffolds in large animal models.</p> <p>SciBX 7(32); doi:10.1038/scibx.2014.969 Published online Aug. 21, 2014</p>	Patent and licensing status unavailable	<p>Ryu, S. <i>et al. Angew. Chem. Int. Ed.</i>; published online July 7, 2014; doi:10.1002/anie.201403794 Contact: Byung-Soo Kim, Seoul National University, Seoul, South Korea e-mail: byungskim@snu.ac.kr Contact: Jyongsik Jang, same affiliation as above e-mail: jsjang@plaza.snu.ac.kr</p>