This week in techniques

Approach	Summary	Licensing status	Publication and contact information
Drug platforms			
Two-step engineering process for generating vascularized bone grafts	<p>A two-step protocol for generating vascularized bone grafts using human mesenchymal stem cells (hMSCs) could help improve bone graft outcomes. A 3D polymer scaffold was seeded with hMSCs to form the bone component and then reseeded a week later with a mix of hMSCs and human umbilical cord-derived endothelial cells (HUVECs) to form the vascular component. In mice, the scaffold produced functional vascular networks that connected with the host vasculature. Next steps include ongoing studies to characterize the dynamics of vessel remodeling in the graft.</p> <p>SciBX 3(7); doi:10.1038/scibx.2010.231 Published online Feb. 18, 2010</p>	Patent and licensing status unavailable	<p>Tsigkou, O. <i>et al. Proc. Natl. Acad. Sci. USA</i>; published online Jan. 18, 2010; doi:10.1073/pnas.0905445107 Contact: Craig Neville, Harvard Medical School, Boston, Mass. e-mail: neville@helix.mgh.harvard.edu</p>