

This week in techniques

Approach	Summary	Licensing status	Publication and contact information
Drug platforms			
Transplantable kidney graft from a decellularized kidney extracellular matrix (ECM)	<p>A transplantable kidney built on a decellularized kidney ECM could help guide the development of functional grafts for patients undergoing kidney transplant. A detergent solution was used to generate a decellularized rat kidney ECM matrix, which was repopulated with a mix of rat neonatal kidney cells and human umbilical vein endothelial cells. In rats, the bioengineered kidney grafted at an orthotopic position had functionality, produced urine and did not show bleeding or clot formation. Next steps include refining the culturing protocol used to generate the engineered kidney.</p> <p>Miromatrix Inc. is developing engineered tissues and organs for transplant using the decellularization and recellularization technology.</p> <p>SciBX 6(16); doi:10.1038/scibx.2013.401 Published online April 25, 2013</p>	<p>Patent applications filed by the University of Minnesota and Massachusetts General Hospital covering the technology; University of Minnesota patent application licensed to Miromatrix; MGH patent application available for licensing</p>	<p>Song, J.J. <i>et al. Nat. Med.</i>; published online April 14, 2013; doi:10.1038/nm.3154 Contact: Harald C. Ott, Massachusetts General Hospital, Boston, Mass. e-mail: hott@partners.org</p>