This week in therapeutics

Indication	Target/marker/ pathway	Summary	Licensing status	Publication and contact information
Hematology				
Bone marrow transplant (BMT)	Chemokine CC motif ligand 21 (CCL21); CCL25	<p>Mouse studies suggest pretreatment of bone marrow cells with CCL21 and CCL25 could enhance T cell reconstitution after transplant. In irradiated mice, the number of thymic endothelial cells and levels of CCL21 and Ccl25 expression in those cells were decreased compared with what was seen in nonirradiated mice. Transplantation of bone marrow cells pretreated with recombinant murine Ccl21 and Ccl25 increased bone marrow homing to the thymus and reconstitution of thymic endothelial cells compared with transplantation of untreated bone marrow cells. Ongoing work includes investigating the effect of CCL21 and CCL25 on T cell reconstitution when bone marrow is transplanted into immunodeficient mice with an implanted human thymus.</p> <p>SciBX 7(26); doi:10.1038/scibx.2014.768 Published online July 10, 2014</p>	<p>Patent application filed covering therapeutic compositions and methods; available for licensing from the University of Pennsylvania Contact: Heather Steinman, University of Pennsylvania, Philadelphia, Pa. e-mail: steinman@ctt.upenn.edu</p>	<p>Zhang, S.L. <i>et al. Blood</i>; published online May 29, 2014; doi:10.1182/blood-2014-01-552794 Contact: Avinash Bhandoola, University of Pennsylvania, Philadelphia, Pa. e-mail: bhandooa@mail.med.upenn.edu</p>