



This week in therapeutics

Indication	Target/marker/ pathway	Summary	Licensing status	Publication and contact information
Transplantation				
Graft-versus-host disease (GvHD)	CD28 receptor	Studies in cell culture and in mice suggest that antagonizing the B7 binding site of CD28 may be useful for preventing GvHD. In cultured mouse thymocytes, the anti-mouse CD28 antibody E18 blocked binding of B7 ligands to CD28 expressed on the cell surface. In a mouse model of acute GvHD, E18 significantly increased survival compared with that of mice receiving a control antibody ( <i>p</i> =0.02). The E18-treated acute GvHD mice also had lower mean clinical disease scores than controls ( <i>p</i> <0.03). Next steps include identifying and evaluating human anti-CD28 mAbs in animal models. Amotosalen, a plasma pathogen inactivation system using a psoralen S-59 light-activated compound from Cerus Corp., is marketed to treat GvHD.  Thymoglobulin, a rabbit anti-thymocyte Ig from Genzyme Corp., is marketed for the same indication.  At least 10 other companies have compounds in Phase III or earlier development for the indication.	Not patented; E18 mAb commercially available from MorphoSys AG's AbD Serotec subsidiary	Beyersdorf, N. et al. Blood; published online Sept. 9, 2008; doi:10.1182/blood-2008-03-146662 Contact: Niklas Beyersdorf, University of Wurzburg, Wurzburg, Germany e-mail: niklas.beyersdorf@vim.uni-wuerzburg.d