

## THE DISTILLERY

## This week in therapeutics

Indication	Target/marker/ pathway	Summary	Licensing status	Publication and contact information
Autoimmune disease				
Autoimmune disease; lupus	S100 calcium binding protein A8 (S100A8; calgranulin A; MRP8); S100A9 (calgranulin B; MRP14)	Studies in mice and in humans suggest that inhibition of MRP8 and MRP14 could help treat CD8 <sup>+</sup> T cell–associated autoimmune diseases like lupus. Skin from patients with cutaneous lupus erythematosus had <i>MRP8-</i> and <i>MRP14</i> -expressing epidermal cells, whereas such cells were not detected in skin from healthy patients. In a mouse model of systemic autoimmunity, mice receiving CD8 <sup>+</sup> T cells from donors with deficient Mrp8 and Mrp14 signaling had less severe autoimmunity symptoms than mice receiving cells from donors with functional Mrp signaling. Next steps include studying the phenotype of T cells from patients being treated with MRP14 inhibitors. Laquinimod, an immune-modulating compound targeting MRP14 from Active Biotech AB and Teva Pharmaceutical Industries Ltd., is in Phase II testing to treat lupus. Active Biotech also has paquinimod, a quinoline-3- carboxamide targeting MRP14, in Phase I testing for the same indication.	Work unpatented; available for licensing	Loser, K. <i>et al. Nat. Med.</i> ; published online May 9, 2010; doi:10.1038/nm.2150 <b>Contact:</b> Karin Loser, University of Muenster, Muenster, Germany e-mail: loserk@uni-muenster.de

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