This week in therapeutics

Indication	Target/marker/pathway	Summary	Licensing status	Publication and contact information
Infectious disease				
Bacterial infection; fungal infection	Anti-thrombin III (AT3; SERPINC1)	<p><i>In vitro</i> and mouse studies suggest an AT3 fragment could help treat bacterial infections. In <i>in vitro</i> growth assays, an AT3 fragment containing 21 amino acids of helix D lysed fungi and Gram-negative and Gram-positive bacteria with equal or greater potency than a benchmark antimicrobial peptide. In a mouse model of <i>Pseudomonas aeruginosa</i> infection, the peptide decreased bacterial burden in spleen, liver and kidney compared with vehicle. Next steps could include testing the AT3 fragment in additional infection models and evaluating its toxicity.</p> <p>SciBX 7(39); doi:10.1038/scibx.2014.1157 Published online Oct. 9, 2014</p>	Patent and licensing status unavailable	<p>Papareddy, P. <i>et al.</i> <i>J. Biol. Chem.</i>; published online Sept. 8, 2014; doi:10.1074/jbc.M114.570465 Contact: Praveen Papareddy, Lund University, Lund, Sweden e-mail: praveen.papareddy@med.lu.se</p>