

This week in therapeutics

Indication	Target/marker/pathway	Summary	Licensing status	Publication and contact information
Infectious disease				
Urinary tract infection (UTI)	Bacterial fimbrial adhesin (fimH)	<p>Studies in mice suggest mannoside-based inhibitors of <i>Escherichia coli</i> fimH could help treat UTI. In a mouse model of <i>E. coli</i> UTI infection, mannoside compounds lowered bacterial growth and prevented bacterial invasion of tissue compared with vehicle control. In mice infected with antibiotic-resistant <i>E. coli</i>, a mannoside compound plus the generic antibiotic trimethoprim-sulfamethoxazole decreased bacterial growth compared with either treatment alone. Next steps include optimizing the half-life and tissue exposure of the lead compounds.</p> <p>SciBX 4(47); doi:10.1038/scibx.2011.1332 Published online Dec. 8, 2011</p>	Patent application filed; available for licensing	<p>Cusumano, C.K. <i>et al. Sci. Transl. Med.</i>; published online Nov. 16, 2011; doi:10.1126/scitranslmed.3003021 Contact: Scott J. Hultgren, Washington University in St. Louis School of Medicine, St. Louis, Mo. e-mail: hultgren@borcim.wustl.edu Contact: James W. Janetka, same affiliation as above e-mail: janetkaj@biochem.wustl.edu</p>