This week in therapeutics

Indication	Target/marker/ pathway	Summary	Licensing status	Publication and contact information
Inflammation				
Inflammation	Neutrophil cytosolic factor 2 (NCF2; p67 ^{phox}); NADPH oxidase 2 (NOX2); Ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1; RAC1)	<i>In vitro</i> studies identified small molecule p67 ^{phox} inhibitors that could help treat inflammation mediated by reactive oxygen species (ROS). Virtual screening identified small molecules that bound to the RAC1 binding site of p67 ^{phox} . In human and murine cell lines, the lead molecule inhibited NOX2-mediated production of ROS with low micromolar IC ₅₀ values. Next steps include testing the lead inhibitors in animal models of inflammation. SciBX 5(10); doi:10.1038/scibx.2012.258 Published online March 8, 2012	Patent application filed; available for licensing	Bosco, E.E. <i>et al. Chem. Biol.</i> ; published online Feb. 24, 2012; doi:10.1016/j.chembiol.2011.12.017 Contact: Yi Zheng, Cincinnati Children's Hospital Medical Center, Cincinnati, Ohio e-mail: yi.zheng@cchmc.org Contact: Marie-Dominique Filippi, same affiliation as above e-mail: marie-dominique.filippi@cchmc.org