This week in therapeutics

Indication	Target/marker/ pathway	Summary	Licensing status	Publication and contact information
Infectious disease				
Bacterial infection	Not applicable	<p>Rat studies suggest decreasing mitochondrial reactive oxygen species could help prevent kidney damage in acute infectious pyelonephritis. In a rat model of acute pyelonephritis, a mitochondria-targeted plastoquinone antioxidant called SkQR1 decreased kidney pathology and increased survival compared with no treatment. In this model, SkQR1 pretreatment prevented an increase in leukocyte numbers and leukocyte-produced reactive oxygen species. Next steps include additional preclinical studies to evaluate the plastoquinone antioxidant in additional nephrological and urological pathologies. Mitotech LLC has mitochondria-targeted antioxidants, including SkQR1, in preclinical development.</p> <p>SciBX 6(33); doi:10.1038/scibx.2013.894 Published online Aug. 29, 2013</p>	<p>SkQR1 and related molecules covered by issued and filed patents; licensing details available from Mitotech Contact: Maxim Skulachev, Mitotech LLC, Moscow, Russia e-mail: max@mitotech.ru</p>	<p>Plotnikov, E.Y. <i>et al. Proc. Natl. Acad. Sci. USA</i>; published online July 29, 2013; doi:10.1073/pnas.1307096110 Contact: Dmitry B. Zorov, Lomonosov Moscow State University, Moscow, Russia e-mail: zorov@genebee.msu.su</p>