

### This week in therapeutics

Indication	Target/marker/pathway	Summary	Licensing status	Publication and contact information
<b>Pulmonary disease</b>				
Acute lung injury	Toll-like receptor 4 (TLR4); TIR domain containing adapter inducing interferon- $\beta$ (TRIF)	A study in mice suggests that antagonizing TLR4-TRIF signaling could help prevent acute lung injury in patients infected with influenza and other lung pathogens. Compared with what was seen in wild-type mice, TLR4 knockout mice had significantly better lung elastance ( $p < 0.01$ ), less lung edema ( $p < 0.01$ ) and lower cytokine production ( $p < 0.05$ ) after inactivated H5N1 virus challenge. Similar trends were seen in TRIF-deficient mice when compared with those in wild-type mice. Next steps include additional studies in long-term lung injury models.	Not patented; unlicensed	Imai, Y. <i>et al. Cell</i> ; published online April 17, 2008; doi:10.1016/j.cell.2008.02.043 <b>Contact:</b> Josef M. Penninger, Institute of Molecular Biotechnology of the Austrian Academy of Sciences, Vienna, Austria e-mail: <a href="mailto:josef.penninger@imba.oeaw.ac.at">josef.penninger@imba.oeaw.ac.at</a> <b>Contact:</b> Yumiko Imai, same affiliation as above e-mail: <a href="mailto:yumiko.imai@imba.oeaw.ac.at">yumiko.imai@imba.oeaw.ac.at</a>