This week in therapeutics

Indication	Target/marker/pathway	Summary	Licensing status	Publication and contact information
Pulmonary disease				
Acute lung injury	Thrombospondin-1 (TSP-1; THBS1)	<i>In vitro</i> and mouse studies suggest TSP-1 could help stimulate alveolar lung repair after injury. In cocultures of bronchioalveolar stem cells with lung endothelial cells, <i>Tsp-1</i> -deficient endothelial cells decreased differentiation of the stem cells into alveolar cells and increased differentiation to bronchiolar cells compared with wild-type endothelial cells. In a mouse lung injury model, conditioned medium from wild-type lung endothelial cells increased numbers of alveolar cells threefold over conditioned medium from <i>Tsp-1</i> -deficient endothelial cells. Next steps include testing delivery of factors that promote alveolar differentiation <i>in vivo</i> .	Findings unpatented; unavailable for licensing	Lee, J.-H. <i>et al. Cell</i> ; published online Jan. 30, 2014; doi:10.1016/j.cell.2013.12.039 Contact: Carla F. Kim, Boston Children's Hospital, Boston, Mass. e-mail: carla.kim@childrens.harvard.edu
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