This week in therapeutics

Indication	Target/marker/pathway	Summary	Licensing status	Publication and contact information
Renal disease				
Renal disease	Kelch-like 3 (KLHL3); cullin 3 (CUL3); solute carrier family 12 potassium-chloride transporter member 3 (SLC12A3; NCCT)	Genomic analysis suggests mutations in *KLHL3* and *CUL3* could help predict the risk of pseudohypoaldosteronism type II (PHAII), a rare, genetically inherited renal disease caused by electrolyte imbalance. Exome sequencing of patients with PHAII and unaffected family members identified associations between the disease and mutations in either *KLHL3* or *CUL3*. In mouse kidney sections, wild-type *Klhl3* and *Cul3* were expressed in the distal convoluted tubule, collecting tube and other regions of the kidney where *NCCT* is expressed. Future studies could include identifying additional targets that influence the relationship between KLHL3, *CUL3* and sodium chloride (NaCl) transporters.	Patent and licensing status unavailable	Boyden, L.M. *et al. Nature*; published online Jan. 22, 2012; doi:10.1038/nature10814 **Contact:** Richard P. Lifton, Yale School of Medicine, New Haven, Conn. e-mail: richard.lifton@yale.edu

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