



This week in therapeutics

Indication	Target/marker/ pathway	Summary	Licensing status	Publication and contact information
Renal disease				
Polycystic kidney disease (PKD)	Cystic fibrosis transmembrane conductance regulator (CFTR)	A screen study identified a pyrimido-pyrroloquinoxalinedione CFTR inhibitor that could help treat PKD. In a mouse embryonic kidney culture model of PKD, the inhibitor, dubbed PPQ-102, produced dose-dependent reductions in the number and size of renal cysts compared with no inhibitor ( $p$ <0.001). PPQ-102 inhibited the CFTR chloride current with an IC $_{50}$ value of about 90 nM. Next steps include evaluating the CFTR inhibitors in animal models of PKD. Samsca tolvaptan, a vasopressin 2 (V2) receptor antagonist from Otsuka Pharmaceutical Co. Ltd., is in Phase II testing for PKD. The compound is approved to treat hyponatremia. PLX5568, a Raf kinase inhibitor from Plexxikon Inc. and Roche, is in Phase I testing for PKD.	Patent application filed; licensing status undisclosed	Tradtrantip, L. et al. J. Med. Chem published online Sept. 28, 2009; doi:10.1021/jm9009873 Contact: A.S. Verkman, Universit of California, San Francisco, Calif e-mail: alan.verkman@ucsf.edu
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