This week in therapeutics

Indication	Target/marker/ pathway	Summary	Licensing status	Publication and contact information
Neurology				
Psychosis	Dopamine D2 receptor; dopamine D3 receptor; serotonin (5-HT _{1A}) receptor; serotonin (5-HT _{1B}) receptor	<i>In vitro</i> and rodent studies suggest coumarin piperazine derivatives could be useful for treating psychosis. <i>In vitro</i> , members of the series bound to the serotonin (5-HT _{1A}) and (5-HT _{1B}) receptors and the dopamine D2 and D3 receptors with nanomolar and subnanomolar affinity. In mice and rats, the lead member of the series decreased multiple psychosis-associated behaviors compared with vehicle. Next steps include evaluating the lead coumarin piperazine derivative in additional preclinical studies.	Patented; unavailable for licensing	Chen, Y. <i>et al. J. Med. Chem.</i> ; published online May 15, 2013; doi:10.1021/jm400408r Contact: Guisen Zhang, Huazhong University of Science & Technology, Wuhan, China e-mail: gszhang@mail.hust.edu.cn
		SciBX 6(24); doi:10.1038/scibx.2013.607 Published online June 20, 2013		