This week in therapeutics

Indication	Target/marker/ pathway	Summary	Licensing status	Publication and contact information
Neurology				
Post-traumatic stress disorder (PTSD)	Histamine H1 receptor (HRH1)	Genetic screening and clinical studies suggest compounds including diphenhydramine could help treat aversive memory associated with PTSD. A screen combining the assessment of adverse memory with genomewide association studies and gene set-based methods in 2 large cohorts identified 20 genes clustering in 2 groups associated with long-term depression or neuroactive ligand-receptor interactions, including HRH1. In 349 severely traumatized patients, the generic antihistamine diphenhydramine decreased aversive memory recall compared with placebo. Next steps could include further investigating the effects of diphenhydramine on distinct phases of memory formation and retrieval.	Patent and licensing status unavailable	Papassotiropoulos, A. <i>et al. Proc. Natl. Acad. Sci. USA</i> ; published online Oct. 21, 2013; doi:10.1073/pnas.1314478110 Contact: Dominique J.-F. de Quervain, University of Basel, Basel, Switzerland e-mail: dominique.dequervain@unibas.ch Contact: Andreas Papassotiropoulos, same affiliation as above e-mail: andreas.papas@unibas.ch
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