

THE DISTILLERY

This week in therapeutics

Indication	Target/marker/ pathway	Summary	Licensing status	Publication and contact information
Neurology				
Addiction	Adenosine A _{2A} receptor (ADORA _{2A})	Nonhuman primate studies suggest antagonists of presynaptic ADORA _{2A} could help treat cannabis addiction. In cannabinoid-addicted nonhuman primates, an antagonist that selectively inhibits presynaptic ADORA _{2A} decreased self- administration of Λ^9 -tetrahydrocannabinol (THC) and an antagonist selective for postsynaptic ADORA _{2A} increased self-administration compared with vehicle. Next steps include testing presynaptic ADORA _{2A} antagonists in cannabis users. Kyowa Hakko Kirin Co. Ltd. markets the ADORA _{2A} antagonist Nouriast istradefylline to treat Parkinson's disease (PD). At least seven other companies have ADORA _{2A} targeted compounds in Phase II or earlier testing to treat various neurological conditions other than addiction.	Unpatented; licensing status not applicable	Justinová, Z. <i>et al. J. Neurosci.</i> ; published online May 7, 2014; doi:10.1523/JNEUROSCI.5073-13.2014 Contact: Sergi Ferré, National Institutes of Health, Bethesda, Md. e-mail: sferre@mail.nih.gov
		SciBX 7(22): doi:10.1038/scibx.2014.648		

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