



This week in therapeutics

Indication	Target/marker/ pathway	Summary	Licensing status	Publication and contact information
Cancer				
Cancer	DJ-1 (PARK7); hypoxia-inducible factor 1α (HIF1α)	Studies in cell culture suggest that inhibiting DJ-1 signaling may be useful for treating cancer. In the U2OS human osteosarcoma cell line, small interfering RNA–based inhibition of DJ-1 significantly increased hypoxia-induced cell death compared with that seen in controls expressing normal levels of DJ-1 (<i>p</i> <0.001). Similar effects were seen in the DJ-1 from mouse embryonic fibroblast cell line, suggesting that DJ-1 is an upstream activator of HIF-10. Next steps could include determining whether DJ-1 protects not only cancer cells but also neuronal cells from hypoxia-induced cell death, such as occurs in Parkinson's disease. EZN-2968 (formerly SPC2968), a HIF-1α antagonist from Enzon Pharmaceuticals Inc. and Santaris Pharma A/S, is in Phase I testing to treat solid tumors. PX-478, a small molecule inhibitor of HIF-1α from Oncothyreon Inc., is in Phase I testing to treat advanced metastatic cancer and lymphoma.	Patent and licensing status unavailable	Vasseur, S. et al. Proc. Natl. Acad. Sci. USA; published online Jan. 12, 2009; doi:10.1073/pnas.0812745106 Contact: Tak Wah Mak, Princess Margaret Hospital, Toronto, Ontario, Canada e-mail: tmak@uhnresearch.ca
		SciBX 2(4); doi:10.1038/scibx.2009.130 Published online Jan. 29, 2009		