



This week in therapeutics

Indication	Target/marker/ pathway	Summary	Licensing status	Publication and contact information
Cancer				
Cancer	Tubulin	An SAR study identified pyrano[3,2-c]pyridone and pyrano[3,2-c]quinolone compounds with antiproliferative and apoptotic activity that could be useful for treating cancer. In a human T cell leukemia cell line, two pyranoquinolones had apoptotic activity. One compound showed a dose-dependent response, and the other was potent at both low and high concentrations. In a cervical adenocarcinoma cell line, both compounds had submicromolar GI ₅₀ values. In an <i>in vitro</i> tubulin polymerization assay, both compounds completely suppressed microtubule polymerization. Next steps include studying pyranopyridone and pyranoquinolone compounds in a panel of cancer cell lines, followed by studies in mice. At least nine companies have tubulin inhibitors for multiple cancers in development stages ranging from discovery to Phase III trials.	Patent application filed; available for licensing	Magedov, I. et al. J. Med. Chem.; published online March 25, 2008; doi:10.1021/jm701499n Contact: Joerg Huelsken, Department of Chemistry, New Mexico Institute of Mining and Technology, Socorro, N.M. e-mail: akornien@nmt.edu