

## THE DISTILLERY

## This week in therapeutics

Indication	Target/marker/pathway	Summary	Licensing status	Publication and contact information
Cancer				
Leukemia	B cell lymphoma 2 (BCL-2; BCL2)	Mouse and cell culture studies suggest BCL-2 inhibitors could be useful for selectively killing leukemia stem cells. In mice engrafted with human chronic myelogenous leukemia (CML) stem cells, the pan-BCL-2 inhibitor sabutoclax decreased stem cell burden and increased stem cell sensitivity to the tyrosine kinase inhibitor Sprycel dasatinib compared with vehicle. In CML stem cell–enriched primary acute myelogenous leukemia (AML) samples, compared with non- stem cell–enriched AML samples, two related BCL-2 inhibitors, ABT-263 and ABT-737, caused selective increases in cell death. Next steps could include a clinical trial of BCL-2 inhibitors in combination with other antileukemia therapies. Bristol-Myers Squibb Co. markets Sprycel to treat acute lymphoblastic leukemia (ALL) and CML. Abbott Laboratories and Roche's Genentech Inc. unit have ABT-263 in Phase I/II testing or earlier to treat various cancers. ABT-737 is a research reagent from Abbott. Oncothyreon Inc.'s sabutoclax is in preclinical development to treat cancer. At least seven other companies have BCL-2 inhibitors in Phase II testing to treat various cancers including leukemia and lymphoma. <b>SciBX 6(5): doi:10.1038/scibx.2013.113</b>	Patent and licensing status unavailable	Goff, D.J. et al. Cell Stem Cell; published online Jan. 17, 2013; doi:10.1016/j.stem.2012.12.011 Contact: Catriona H.M. Jamieson, University of California, San Diego, La Jolla, Calif. e-mail: cjamieson@ucsd.edu Lagadinou, E.D. et al. Cell Stem Cell; published online Jan. 17, 2013; doi:10.1016/j.stem.2012.12.013 Contact: Craig T. Jordan, University of Rochester Medical Center, Rochester, N.Y. e-mail: craig_jordan@urmc.rochester.edu

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