

THE DISTILLERY

This week in therapeutics

ation Target/marker/pathway Summary	Licensing status	information
er		
rrEnhancer of zeste homolog 2 (EZH2); embryonic ectoderm development (EED)In vitro studies suggest inhibiting EZH2-EED interactions could help treat cancer. Chemica synthesis and <i>in vitro</i> testing of stapled peptid analogs of the EED-binding domain of EZH2 identified a lead peptide with nanomolar bind affinity for EED. In a murine leukemia cell lin and human breast and prostate cancer cell lin the peptide inhibitor EZH2-EED interactions and decreased proliferation compared with a control peptide. In human lymphoma cell lind harboring <i>EZH2</i> mutations, the peptide and a small molecule inhibitor of the EZH2 catalyti site decreased proliferation compared with ei a gent alone. Ongoing work includes optimizin the lead peptide and testing it in a range of cancers. Epizyme Inc. and Eisai Co. Ltd. have EPZ6433 (E7438), a selective inhibitor of EZH2, in Pha II testing to treat lymphoma and non-Hodgki lymphoma (NHL). Constellation Pharmaceuticals Inc., Novartis and GlaxoSmithKline plc have EZH2 inhibito	 Patented by the Dana-Farber Cancer Institute; available for licensing or partnering ees a c ther ng 8 ase I/ in's AG ors 	Kim, W. et al. Nat. Chem. Biol.; published online Aug. 25, 2013; doi:10.1038/nchembio.1331 Contact: Stuart H. Orkin, Boston Children's Hospital, Boston, Mass. e-mail: stuart_orkin@dfci.harvard.edu Contact: Loren Walensky, same affiliation as above e-mail: loren_walensky@dfci.harvard.edu
and decreased proliferation compared with a control peptide. In human lymphoma cell lim harboring <i>EZH2</i> mutations, the peptide and a small molecule inhibitor of the <i>EZH2</i> catalyti site decreased proliferation compared with ei agent alone. Ongoing work includes optimizi the lead peptide and testing it in a range of cancers. Epizyme Inc. and Eisai Co. Ltd. have EPZ6433 (E7438), a selective inhibitor of EZH2, in Pha II testing to treat lymphoma and non-Hodgki lymphoma (NHL). Constellation Pharmaceuticals Inc., Novartis and GlaxoSmithKline plc have EZH2 inhibitor	и I/ 5	same e-mai loren

SciBX 6(37); doi:10.1038/scibx.2013.1023 Published online Sept. 26, 2013