

THE DISTILLERY

This week in therapeutics

Indication Target/marker/pathway Summ	mary	Licensing status	Publication and contact information
Other			
Poisoning Hypoxia-inducible factor Mouse prolyl hydroxylase 1 could 1 (EGLN2; HIF-PH1; PHD1); death n PHD2 (EGLN1; HIF-PH2); In irra PHD3 (EGLN3; HIF-PH3) and Ph pan-Pl toxicity no kno wild-ty surviva irradia after to includ mice b FibroC AstraZ inhibit Phase chroni renal c FibroC PHD i testing Akebia inhibit anemi	e studies suggest pan-PHD inhibitors help prevent damage to the GI tract and resulting from acute radiation exposure. adiated mice, knockout of <i>Phd1</i> , <i>Phd2</i> <i>Phd3</i> in GI tissues or pretreatment with a PHD inhibitor decreased markers of GI ty and increased survival compared with toockout or with vehicle pretreatment. In type mice, the pan-PHD inhibitor improved val in animals treated after total abdominal ation but failed to do so in animals treated total body irradiation. Ongoing work des testing additional PHD inhibitors in before and after radiation exposure. Gen Inc., Astellas Pharma Inc. and Zeneca plc have the small molecule PHD itor roxadustat (FG-4592; ASP1517) in e III testing to treat anemia in patients with tic kidney disease (CKD) and end-stage disease (ESRD). Gen and Astellas have the small molecule inhibitor FG-2216 (YM311) in Phase II g to treat anemia in patients with CKD. ia Therapeutics Inc. has the oral PHD itor AKB-6548 in Phase IIb testing to treat ia in patients with CKD. X 7(24); doi:10.1038/scibx.2014.719	Patent application filed; available for licensing	Taniguchi, C.M. <i>et al. Sci. Transl. Med.</i> ; published online May 14, 2014; doi:10.1126/scitranslmed.3008523 Contact: Amato J. Giaccia, Stanford University, Stanford, Calif. e-mail: giaccia@stanford.edu

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