

THE DISTILLERY

This week in therapeutics

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Indication	Target/marker/ pathway	Summary	Licensing status	Publication and contact information
Other				
Progeria	Mammalian target of rapamycin (mTOR; FRAP; RAFT1)	Cell culture studies suggest rapamycin or another mTOR inhibitor could help treat Hutchinson-Gilford progeria syndrome (HGPS), which causes premature aging and can lead to death from cardiovascular complications. In fibroblasts from HGPS patients, rapamycin corrected nuclear and abnormal protein expression defects and prolonged cellular lifespan compared with vehicle. Next steps include testing the effects of rapamycin in mouse models of progeria. Afinitor everolimus, an mTOR inhibitor from Novartis AG, is marketed to treat renal cell carcinoma (RCC) and prevent transplant rejection. At least eight other companies have mTOR inhibitors in development stages ranging from preclinical to marketed to treat cancer	Unpatented; licensing status not applicable	Cao, K. <i>et al. Sci. Transl. Med.</i> ; published online June 29, 2011; doi:10.1126/scitranslmed.3002346 Contact: Dimitri Krainc, Harvard Medical School, Charlestown, Mass. e-mail: krainc@helix.mgh.harvard.edu Contact: Francis S. Collins, National Institutes of Health, Bethesda, Md. e-mail: Francis.Collins@nih.gov
		compared with vehicle. Next steps include testing the effects of rapamycin in mouse models of progeria. Afinitor everolimus, an mTOR inhibitor from Novartis AG, is marketed to treat renal cell carcinoma (RCC) and prevent transplant rejection. At least eight other companies have mTOR inhibitors in development stages ranging from preclinical to marketed to treat cancer.		Contact: Francis S. Collins, National Institutes of Health, Bethesda, Md. e-mail: Francis.Collins@nih.gov

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