

THE DISTILLERY

This week in therapeutics

Indication	Target/marker/ pathway	Summary	Licensing status	Publication and contact information
Musculoskeletal o	lisease			
Osteoporosis	Oxytocin (OXT); OXT receptor (OXTR)	Studies in mice and in cell culture suggest that OXT agonists could help treat osteoporosis. Oxt- and Oxtr-deficient mice developed early-onset osteoporosis compared with what was seen in wild- type controls. In cell culture, OXT-deficient bone marrow cells showed lower rates of osteogenesis than wild-type controls, a defect corrected by adding OXT to the culture. Also in cell culture, OXT inhibited bone resorption by osteoclasts compared with that seen in untreated controls. Next steps include testing the effect of increased OXT activity in an ovariectomized mouse model of osteoporosis.	Unpatented; licensing status not applicable	Tamma, R. <i>et al. Proc. Natl. Acad.</i> <i>Sci. USA</i> ; published online April 15, 2009; doi:10.1073/pnas.0901890106 Contact: Alberta Zallone, University of Bari, Bari, Italy e-mail: a.zallone@anatomia.uniba.it Contact: Mone Zaidi, Mount Sinai School of Medicine, New York, N.Y e-mail: mone.zaidi@mssm.edu

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