

**BIOGRAPHICAL SKETCH**

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NAME Anne M. (Beeman) Delany, Ph.D.		POSITION TITLE Assistant Professor of Medicine	
eRA COMMONS USER NAME AMDelany			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Dartmouth Medical School, Hanover, NH	B.S.	1985	Marine Biology & Chemistry <i>Summa cum laude</i>
	Ph.D.	1991	Biochemistry

**A. Positions and Honors.**Positions

Postdoctoral Fellow, Dartmouth Medical School, Hanover, NH, 1991-1993

Postdoctoral Fellow, Saint Francis Hospital and Medical Center, Hartford, CT, 1993-1997

Research Scientist, Saint Francis Hospital and Medical Center, 1997- 2004

Assistant Professor of Medicine, University of Connecticut School of Medicine, 2004-present

Honors

Alpha Chi Honor Society, 1983-1985

Summer Research Fellowship Marine Biological Laboratory, Woods Hole, MA, 1986

Fellow of the Albert J. Ryan Foundation, 1988-1989

Individual National Research Service Award, NIDDK, 1994-1997

Young Investigator Award, American Society for Bone and Mineral Research, 1994

Member, Editorial Board, Arthritis Research and Therapy, 1999 to present

Member of American Society for Bone and Mineral Research, 1993-present

Member of American Society for Matrix Biology, 2000-present

Service, NIAMS Special Emphasis Panel, 2001-2005

Service, NIH CSR, Orthopedics and Skeletal Biology Small Business, 2003-2008

**B. Peer-reviewed publications.**

1. Fini, M.E., Karmilowicz, M.J., Ruby, P.L., **Beeman, A.M.**, Borges, K.A., and Brinckerhoff, C.E. Cloning of a complementary DNA for rabbit proactivator: a metalloproteinase that activates synovial cell collagenase, shares homology with stromelysin and transin, and is coordinately regulated with collagenase. *Arthritis Rheum* 30:1254-1264, 1987
2. **Delany, A.M.\***, and Brinckerhoff, C.E. Post-transcriptional regulation of collagenase and stromelysin gene expression by epidermal growth factor and dexamethasone in cultured human fibroblasts. *J Cell Biochem* 50:400-410, 1992
3. **Delany, A.M.\***, and Brinckerhoff, C.E. The synthetic retinoid (4-hydroxyphenyl) retinamide decreases collagen expression in vitro and in the tight-skin mouse. *Arthritis Rheum* 36:983-993, 1993
4. Pash, J., **Delany, A.M.**, Adamo, M.L., Roberts, Jr., C.T., LeRoith, D. and Canalis, E. Regulation of insulin-like growth factor I transcription by prostaglandin E2 in osteoblast cells. *Endocrinology* 136:33-38, 1995
5. **Delany, A.M.\***, Gabbitas, B., and Canalis, E. Cortisol down-regulates osteoblast  $\alpha 1(I)$  procollagen mRNA by transcriptional and post-transcriptional mechanisms. *J Cell Biochem* 57:488-494, 1995
6. Canalis, E., Rydziel, S., **Delany, A.**, Varghese, S., and Jeffrey, J. Insulin-like growth factors inhibit interstitial collagenase synthesis in bone cell cultures. *Endocrinology* 136:1348-1354, 1995
7. **Delany, A.M.\***, Jeffrey, J.J., Rydziel, S., and Canalis, E. Cortisol increases interstitial collagenase expression in osteoblasts by post-transcriptional mechanisms. *J Biol Chem* 270:26607-26612, 1995

8. **Delany, A.M.\***, and Canalis, E. Transcriptional repression of insulin-like growth factor I by glucocorticoids in rat bone cells. *Endocrinology* 136:4776-4781, 1995
9. Varghese, S., **Delany, A.M.**, Liang, L., Gabbitas, B., Jeffrey, J.J., and Canalis, E. Transcriptional and post transcriptional regulation of interstitial collagenase by platelet-derived growth factor BB in bone cultures. *Endocrinology* 137:431-437, 1996
10. Gabbitas, B., Pash, J.M., **Delany, A.M.**, and Canalis, E. Cortisol inhibits the synthesis of insulin-like growth factor binding protein-5 in bone cell cultures by transcriptional mechanisms. *J Biol Chem* 271:9033-9038, 1996
11. **Delany, A.M.\***, Rydziel, S., and Canalis, E. Autocrine down regulation of collagenase-3 in rat bone cell cultures by insulin-like growth factors. *Endocrinology* 137:4665-4670, 1996
12. Franchimont, N., Rydziel, S., **Delany, A.M.**, Canalis E. Interleukin-6 and its soluble receptor cause a marked induction of collagenase 3 expression in rat osteoblast cultures. *J Biol Chem* 272:12144-12150, 1997
13. Rydziel, S., **Delany, A.**, Canalis, E. Insulin-like growth factor I inhibits the transcription of collagenase 3 in osteoblast cultures. *J Cell Biochem* 67:176-183, 1997
14. **Delany, A.M.\***, Canalis, E. Basic fibroblast growth factor destabilizes osteonectin mRNA in osteoblasts. *Am J Physiol* 43:C734-C740, 1998
15. **Delany, A.\***, Canalis, E. Dual regulation of stromelysin by fibroblast growth factor-2 in murine osteoblasts. *J Biol Chem* 273:16595-16600, 1998
16. Blanquaert, F., **Delany, A.M.**, Canalis, E. Fibroblast growth factor-2 induces hepatocyte growth factor/scatter factor expression in osteoblasts. *Endocrinology* 140:1069-1074, 1999
17. **Delany, A.M.\***, Amling, M., Priemel, M., Howe, C., Baron, R., Canalis, E. Osteopenia and decreased bone formation in osteonectin-deficient mice. *J Clin Invest* 105:915-923, 2000 (**cover**)
18. **Delany, A.M.\***, Canalis, E. The metastasis associated metalloproteinase stromelysin-3 is induced by transforming growth factor  $\beta$  in osteoblasts and fibroblasts. *Endocrinology* 142:1561-1566, 2001
19. Pereira, R.M.R., **Delany, A.M.**, Canalis, E. Cortisol inhibits the differentiation and apoptosis of osteoblasts in culture. *Bone* 28:484-490, 2001
20. **Delany, A.M.**, Durant, D.D., Canalis, E. Glucocorticoid suppression of insulin-like growth factor I transcription in osteoblasts. *Mol Endocrinol* 15:1781-1789, 2001
21. Pereira R.C., **Delany, A.M.**, Canalis, E. Effects of cortisol and bone morphogenetic protein-2 on stromal cell differentiation: Correlation with CAAT-enhancer binding protein expression. *Bone* 30:685-691.
22. Pereira R.M.R., **Delany, A.M.**, Durant, D., Canalis, E. Cortisol regulates the expression of Notch in osteoblasts. *J. Cell. Biochem.* 85:252-258, 2002
23. Boskey A.L., Moore D.J., Amling M., Canalis E., **Delany A.M.** Infrared analysis of the mineral and matrix in bones of osteonectin-null mice and their wild type controls. *J. Bone Miner. Res.* 18:1005-1011, 2003.
24. **Delany, A.M.\***, Kalajzic, I., Bradshaw A.D., Sage, E.H., Canalis, E. Osteonectin-null mutation compromises osteoblast formation, maturation, and survival. *Endocrinology* 144:2588-2596, 2003.
25. Sciaudone, M., Gazzero, E., Priest, L., **Delany, A.M.**, Canalis, E. Notch 1 impairs osteoblastic differentiation. *Endocrinology.* 144:56310-5639, 2003.
26. Pereira, R.C., **Delany, A.M.**, Canalis, E. CCAAT/enhancer binding protein homologous protein (DDIT3) induces osteoblastic differentiation. *Endocrinology* 144:5631-5639, 2003
27. Rydziel, S., **Delany, A.M.**, Canalis, E. AU-rich elements in the collagenase 3 mRNA mediate stabilization of the transcript by cortisol in osteoblasts. *J Biol Chem* 279:5394-53404, 2004.
28. Kessler, C.B. and **Delany, A.M.\***. Increased notch 1 expression and attenuated stimulatory G protein coupling to adenylyl cyclase in osteonectin-null osteoblasts. *Endocrinology* 148:1665-1674, 2007.
29. **Delany, A.M.\***, McMahon D.J., Powell, J.S., Greenberg, D.A., Kurland, E.S. Osteonectin/SPARC polymorphisms in Caucasian men with idiopathic osteoporosis. *In press* Osteoporosis International.
30. Machado do Reis L., Kessler C.B., Adams D.J., Lorenzo J., Jorgetti V., **Delany A.M.\*** Accentuated osteoclastic response to parathyroid hormone undermines bone mass acquisition in osteonectin-null mice. *In press* Bone
31. Kapinas K., Kessler C.B., Shubert-Coleman J., **Delany A.M.\*** miR-29 suppresses osteonectin in response to FGF-2 and during osteoblastic differentiation. *Under revision.*
32. Nie J., Bradshaw A.D., **Delany A.M.**, Sage E.H. Inactivation of SPARC enhances high fat diet-induced obesity and glucose intolerance in mice. *Under revision*