

Dr. William S. Mellon

School of Pharmacy
University of Wisconsin-Madison
425 N. Charter Street
Madison, WI 53706-1515

PHONE: 608 / 262-3196
FAX: 608 / 262-3997
email: WSMellon@facstaff.wisc.edu

PUBLICATIONS

Rivera-Bermúdez, M., Mosavin, R., Bertics, P. and Mellon, W. S.: Involvement of protein kinase C in the regulation of osteocalcin in bone cells by 1,25-dihydroxyvitamin D₃. (In preparation.)

Mosavin, R., Watana, S. and Mellon, W. S.: Mechanism of osteocalcin mRNA stabilization in clonal osteoblast cells by 1,25-Dihydroxyvitamin D₃ [1,25(OH)₂D₃]. (In preparation.)

Indig, G. L., Bartlett, J., Mellon, W. S., Anderson, G. and Sieber, F.: Evaluation of crystal violet and other triarylmethane dyes as photosensitizers for employment in photochemical purging of bone marrow grafts from residual leukemia cells. Submitted.

Mosavin, R., and Mellon, W. S.: Posttranscriptional regulation of osteocalcin mRNA in clonal osteoblast cells by 1,25-dihydroxyvitamin D₃. *Arch. Biochem. Biophys.* **332**:142-152 (1996).

Mangasarian, K., and Mellon, W. S.: 1,25-Dihydroxyvitamin D₃ destabilizes c-myc mRNA in HL-60 leukemic cells. *Biochim. Biophys. Acta* **1172**:55-63 (1993).

Moss, M., Mosavinasab, R., Mangasarian, K., Rich, D. H. and Mellon, W. S.: Alteration of c-myc RNA levels in aortic endothelial cells and clonal T-cells by cyclosporin A and its analogues. (In preparation)

Moss, M. L., Palmer, R. E., Kuzmic, P., Dunlap, B. E., Henzel, W., Kofron, J., Mellon, W. S., Royer, C. and Rich, D. H.: Identification of actin and HSP70 as cyclosporin A binding proteins by photoaffinity labeling and fluorescence displacement assays. *J. Biol. Chem.* **267**:22054-22059 (1992).

Mangasarian, K. and Mellon, W. S.: 1,25-Dihydroxyvitamin D₃ destabilizes c-myc mRNA in HL-60 leukemic cells. *Biochimica et Biophysica Acta* **1172**:55-63 (1993).

Mangasarian, K. and Mellon, W. S.: The effect of 1,25-dihydroxyvitamin D₃ on c-myc proto-oncogene expression in normal and partially resistant HL-60 cell lines. (Submitted, under revision)

Lee, Y. S. and Mellon, W. S.: Immunological characterization of the regulation of 1,25-dihydroxyvitamin D₃ receptors in human promyelocytic leukemic cells (HL-60) during cellular differentiation. (In preparation)

Lee, Y. S., Inaba, M., DeLuca, H. F. and Mellon, W. S.: Immunological identification of 1,25-dihydroxyvitamin D₃ receptors in human promyelocytic leukemic cells (HL-60) during homologous regulation. *J. Biol. Chem.* **264**:13701-13705 (1989).

Tung, R., Dunlap, B., Aebi, J. D., Mellon, W., Ruoho, A. E., Dhanasekaran, N. and Rich, D. H.: Synthesis and biological properties of a high specific activity radioiodinated, photolabile cyclosporine. In *Synthetic Peptides: Approaches to Biological Problems*. UCLA Symposia on Molecular and Cellular Biology, New Series, Vol. 86, pp. 321-335. J. Tam and T. Kaiser (eds.); Alan R. Liss, New York, 1988.

Lee, Y., Dunlap, B. and Mellon, W. S.: Induction of monocytic differentiation by calcitriol in human promyelocytic leukemic cell line (HL-60) in serum-free medium. *Biochem. Pharmacol.* **36**:3893-3961 (1987).

Radparvar, S. and Mellon, W. S.: 1,25-Dihydroxyvitamin D₃ receptor replenishment in the chicken intestine. *J. Steroid Biochem.* **25**:291-298 (1986).

Mellon, W. S. and Radparvar, S.: Multiple forms of chicken intestinal nuclear 1,25-dihydroxyvitamin D₃ receptors. Vitamin D Chemical, Biochemical and Clinical Update. Proceedings of the sixth workshop on vitamin D. A. W. Norman, K. Schaefer, H. G. Grigoleit, and D. V. Herrath (eds.). Walter de Gruyter and Co., New York, (1985), pp. 145-146.

Paaren, H. E., Mellon, W. S., Schnoes, H. K. and DeLuca, H. F.: Ring A-Stereoisomers of 1-hydroxyvitamin D₃ and their relative binding affinities for the intestinal 1 α ,25-dihydroxyvitamin D₃ receptor protein. *Bioorg. Chem.* **13**:62-75 (1985).

Mellon, W. S.: Analysis of hormone and polynucleotide/histone binding sites of the chicken intestinal 1,25-dihydroxyvitamin D₃ receptor by means of proteolysis. *Endocrinology* **116**:1408-1417 (1985).

Mellon, W. S.: Dye-ligand interactions with 1,25-dihydroxyvitamin D₃-receptor complexes from chicken intestine. *Mol. Pharmacol.* **25**:79-85 (1984).

Mellon, W. S.: Specificity of dye-ligand interaction with the polynucleotide binding domain of 1,25-dihydroxyvitamin D₃-receptor complexes of chicken intestinal cytosol. *Mol. Pharmacol.* **25**:86-91 (1984).

Radparvar, S. and Mellon, W. S.: An exchange assay for quantitating 1,25-dihydroxyvitamin D₃ receptors. *J. Steroid Biochem.* **20**:807-815 (1984).

Mellon, W. S.: Inhibitory action of aurintricarboxylic acid and rifamycin AF/013 at the polynucleotide domain of 1,25-dihydroxyvitamin D₃-receptor complexes. *Biochem. Pharmacol.* **33**:1047-1057 (1984).

Radparvar, S. and Mellon, W. S.: Characterization of 1,25-dihydroxyvitamin D₃-receptor complex interactions with DNA by a competitive assay. *Arch. Biochem. Biophys.* **217**:552-563 (1982).

Atchison, W. D., Mellon, W. S., Lalley, P. M. and Peterson, P. E.: Dithiobiuret-induced muscle weakness in rats: evidence for a prejunctional effect. *Neurotoxicology* **3**:44-54 (1982).

Napoli, J. L., Mellon, W. S., Fivizzani, M. A., Schnoes, H. K. and DeLuca, H. F.: Direct chemical synthesis of 1 α ,25-dihydroxy[26,27-³H] vitamin D₃ with high specific activity: its use in receptor studies. *Biochemistry* **19**:2515-2521 (1980).

Mellon, W. S. and DeLuca, H. F.: A specific high-affinity binding protein for 1,25-dihydroxyvitamin D₃ in chick bone. *J. Biol. Chem.* **255**:4081-4086 (1980).

Mellon, W. S., Franceschi, R. T. and DeLuca, H. F.: An in vitro study of the stability of chicken intestinal cytosol 1,25-dihydroxyvitamin D₃ specific receptor. *Arch. Biochem. Biophys.* **202**:83-92 (1980).

Napoli, J. L., Mellon, W. S., Fivizzani, M. A., Schnoes, H. K. and DeLuca, H. F.: The synthesis and biological evaluation of fluorinated analogs as probes of vitamin D₃ metabolism. Proceedings of the Fourth Workshop on Vitamin D, Berlin, West Germany, 1979, A. W. Norman, K. Schaefer, D. V. Herrath, H. G. Grigoleit, J. W. Coburn, H. F. DeLuca, E. B. Mawer, and T. Suda (eds.); pp. 45-49. Walter de Gruyter and Co., New York, 1979.

Mellon, W. S. and DeLuca, H. F.: An equilibrium and kinetic study of 1,25-dihydroxyvitamin D₃ binding to chicken intestinal cytosol employing high specific activity 1,25-dihydroxy[³H-26,27] vitamin D₃. *Arch. Biochem. Biophys.* **197**:90-95 (1979).

Napoli, J. L., Mellon, W. S., Schnoes, H. K. and DeLuca, H. F.: Evidence for the metabolism of 24R-hydroxy-25-fluorovitamin D₃ and 1 α -hydroxy-25-fluorovitamin D₃ to 1 α ,24R-dihydroxy-25-fluorovitamin D₃. *Arch. Biochem. Biophys.* **197**:193-198 (1979).

Napoli, J. L., Mellon, W. S., Fivizzani, M. A., Schnoes, H. K. and DeLuca, H. F.: Synthesis and biological activity of 24-hydroxy-25-fluorovitamin D₃: A highly potent mediator of calcium metabolism. *J. Biol. Chem.* **254**:2017-2022 (1979).

Mellon, W. S., Witiak, D. T. and Feller, D. R.: Cholesterol 7 α -hydroxylase: evidence for a distinct hepatic microsomal enzyme system. *Biochem. Pharmacol.* **27**:1055-1062 (1978).

Goldberg, A. P., Mellon, W. S., Witiak, D. T. and Feller, D. R.: Comparison of hypocholesterolemic activity for cyclic analogs of clofibrate in normolipemic rats. *Atherosclerosis* **27**:15-25 (1977).

Mellon, W. S., Goldberg, A. P., Witiak, D. T. and Feller, D. R.: Differential effect of clofibrate on hepatic drug oxidation and cholesterol 7 α -hydroxylation. *Biochem. Pharmacol.* **25**:2403-2406 (1976).

Feller, D. R., Basu, P., Mellon, W. S., Curott, J. and Malspeis, L.: Metabolism of the ephedrine isomers in rabbit liver. *Arch. Internat. de Pharmacodyn. et de Ther.* **203**:187-199 (1973).

ABSTRACTS

- Rivera-Bermúdez, M. A. and Mellon, W. S.: 1,25-Dihydroxyvitamin D₃ [1,25(OH)₂D₃] translocates PKCa but not PKCβ1, PKCγ or PKCζ to the nuclei in ROS 17/2.8 cells. *Endocrinology* abstract # P1-601 (1998).
- Mosavinasab, R. and Mellon, W. S.: Posttranscriptional regulation of osteocalcin mRNA in clonal osteoblast cells by 1,25-dihydroxyvitamin D₃. *Endocrinology* abstract #894 (1994).
- Mangasarian, K. and Mellon, W. S.: 1,25-Dihydroxyvitamin D₃ increases c-myc mRNA turnover in HL-60 cells. *The FASEB Journal* abstract #5796 (1992).
- Mangasarian, K. and Mellon, W. S.: The expression of c-myc, c-fos, and c-src oncogenes in normal and vitamin D resistant HL-60 cell lines. *Endocrinology* abstract #48 (1988).
- Lee, Y. S., Inaba, M., DeLuca, H. F. and Mellon, W. S.: Immunologic characterization of calcitriol receptor in human promyelocytic leukemic cell line (HL-60) during homologous regulation. *Endocrinology* abstract #467 [designated as a "Presidential Poster"] (1988).
- Mellon, W. S. and Hasseldahl, A.: Evidence for two nuclear chicken intestinal 1,25-dihydroxyvitamin D₃ receptors. *Endocrinology* abstract #548 (1987).
- Lee, Y. S. and Mellon, W. S.: Regulation of 1,25-dihydroxyvitamin D₃ receptors by monocytic inducing agents in the promyelocytic leukemic cell line HL-60. *Endocrinology* abstract #95 (1986).
- Dunlap, S., Dunlap, B., Rich, D. and Mellon, W. S.: 1,25-Dihydroxyvitamin D₃ induced differentiation in HL-60 cells in the absence of "Free" cytosolic Ca²⁺ alterations. *Endocrinology* abstract #1324 (1985).
- Mellon, W. S. and Radparvar, S.: Multiple forms of chicken intestinal nuclear 1,25-dihydroxyvitamin D₃ receptors. Sixth Workshop on Vitamin D, pp. 55 (1985).
- Radparvar, S. and Mellon, W. S.: An exchange assay for quantitating 1,25-dihydroxyvitamin D₃ receptors. *Endocrinology* abstract #710 (1983).
- Mellon, W. S.: Dye-ligand interactions with 1,25-dihydroxyvitamin D₃-receptor complexes from chicken intestine. *Endocrinology* abstract #693 (1982).
- Vician, L., and Mellon, W. S.: Stimulatory effects of 1,25-dihydroxyvitamin D₃ on prolactin synthesis in primary cultures of rat pituitary cells. *Endocrinology* abstract #899 (1982).
- Radparvar, S. and Mellon, W. S.: The use of DNA-cellulose for analyzing 1,25-dihydroxyvitamin D₃-DNA interaction. *Endocrinology* abstract #367 (1981).

Paaren, H. E., Underwood, J. L., Mellon, W. S., Schnoes, H. K., and DeLuca, H. F.: Synthesis and biological testing of C(1)-hydroxylated vitamin D receptor binding analogs. *Fed. Proc.* (1980).

Mellon, W. S. and DeLuca, H. F.: A specific high-affinity binding protein for 1,25-dihydroxy-vitamin D3 in chick bone. *Endocrinology* abstract #490 (1979).

Napoli, J. L., Mellon, W. S., Fivizzani, M. A., Schnoes, H. K., and DeLuca, H. F.: Biological activity and metabolism of fluorinated vitamin D3 analogs. *Fed. Proc.* **37**:1789 (1978).

Mellon, W. S., Witiak, D. T., and Feller, D. R.: Cumenehydroperoxide (CuOOH) and NADPH-mediated cholesterol 7 α -hydroxylase and drug oxidase activities in rat liver microsomes. *The Pharmacologist* **19**:161 (1977).

Mellon, W. S., Witiak, D. T., and Feller, D. R.: The interrelationship between hepatic microsomal cholesterol 7 α -hydroxylase and mixed function oxidase (MFO) systems. *The Pharmacologist* **18**:155 (1976).

Mellon, W. S., Goldberg, A. P., Witiak, D. T., and Feller, D. R.: Effect of clofibrate on hepatic microsomal hydroxylation of cholesterol and ethylmorphine in rat. *Fed. Proc.* **34**:725 (1975).

Feller, D. R., Curott, J., Mellon, W., Basu, P., and Malspeis, L.: Studies on the metabolism of the ephedrine isomers in rabbit liver. *A.Ph.A. Acad. Pharm. Sci.* **1**:128 (1971).