AAO Foundation Awards Final Report

| Principal Investigator: | Jeanne Nervina |
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| Co-Investigator: | |
| Secondary Investigators: | |
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| Award Type: | Eugene E. West Memorial Fellowship |
| Title of Project: | Faculty Development Award |
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| Due is at Vasu | 2005 6 |
| Project Year: | 2005-6 |
| Name of Institution: | UCLA School of Dentistry |
| Brief Summary (250 words or less): | |

Dr. Nervina investigates parathyroid hormone (PTH)-induced RAMP3 and PGC- 1α expression in osteoblasts. PTH regulates serum calcium and has significant effects on bone metabolism. Dr. Nervina's work with RAMP3 and PGC- 1α point to the critical role that the cAMP-protein kinase A pathway plays in mediating PTH's effects on osteoblasts.

Dr. Nervina is Assistant Professor Step III. Her merit promotion to Assistant Professor Step IV will go into effect July 1, 2006. Dr. Nervina serves several functions at the School of Dentistry.

- 1. Predoctoral Orthodontics Program and Clinic Director
- 2. Course Chair
 - a. Orthodontics Techniques
 - b. Clinical Orthodontics
 - c. Dental Embryology & Histology
- 3. Committees
 - a. Orthodontics Residency Admissions Committee
 - b. Research Advisory Committee
 - c. Master's Degree Committee for four Oral Biology Graduate students

Publications

Nervina, JM, Magyar CE, Pirih FQ, Tetradis S. PGC- 1α is induced by parathyroid hormone and coactivates Nurr1-mediated promoter activity in osteoblasts. *Bone*. In press.

- **Nervina, JM**, Camargo PM, Bezouglaia O, Tetradis S. Prostanoid- and IL-1-induced primary genes in cementoblastic cells. *J. Periodontol*. In press.
- Phelps E, Bezouglaia O, Tetradis S, **Nervina JM**. 2005. Parathyroid hormone induces RAMP3 expression via 3',5'-cyclic adenosine monophosphate signaling in osteoblasts. *Calc. Tissue Int.* 77(2):96-103.
- Pirih FQ, Aghaloo TL, **Nervina JM**, Tetradis S. 2005. Parathyroid hormone induces the NR4A family of nuclear orphan receptors *in vivo*. *Biochem. Biophys. Res. Commun.* 332:494-503.
- Camargo PM, Lagos R, Pirih FQM, Benitez A, **Nervina JM**, Tetradis S. 2005. Prostaglandins E_2 and $F_{2\alpha}$ enhance differentiation of cementoblastic cells. *J. Periodontol.* 6:303-9.

Please send electronically (as a Word document and e-mail attachment) to aaofevp@aaortho.org