

**AAO Foundation Award
Final Report**

Principal Investigator	Calogero Dolce
Co-Investigator	
Secondary Investigators	
Award Type	Faculty Development Award
Project Title	
Project year	2000
Institution	University of Florida
Summary/Abstract	<p>I would like to thank the AAO Foundation for all of their support of orthodontic research and faculty. This, so far, has been a very busy year for me having been involved in many departmental activities including teaching, research and service. I have continued to teach our orthodontic residents (11) in both the clinic and in seminars. I have also mentored the residents with their research projects. In the area of research, Dr Wheeler and I are continuing work on the NIH funded clinical trial "Timing of Treatment for Class n Malocclusion" and on the clinical trial funded by the Align Corporation. As October 2004, I am a co-investigator in an NIH/NIDCR funded grant "Facial growth as a function of palatal surgery".</p> <p>The following manuscripts have been published year to date:</p> <p>1: Zuo J, Jiang J, Dolce C, Holliday LS. Effects of basic fibroblast growth factor on osteoclasts and osteoclast-like cells. <i>Biochem Biophys Res Commun.</i> 2004 May 21;318(1): 162-7.</p> <p>2: Dolce C, Hatch JP, Van Sickels <i>IE</i>, Rugh JD. Five-year outcome and predictability of soft tissue profiles when wire or rigid fixation is used in mandibular advancement of soft tissue profiles when wire or rigid fixation is used in mandibular advancement surgery. <i>Am J Orthod Dentofacial Orthop.</i> 2003 Sep;124(3):249-56.</p> <p>3: Holliday LS, Vakani A, Archer L, Dolce C. Effects of matrix metalloproteinase inhibitors on bone resorption and orthodontic tooth movement. <i>J Dent Res.</i> 2003 Sep;82(9):687-91.</p> <p>4: Dolce C, Vakani A, Archer L, Morris-Wiman JA, Holliday LS. Effects of echistatin and an RGD peptide on orthodontic tooth movement. <i>J Dent Res.</i> 2003 Sep;82(9):682-6.</p> <p>5: King GJ, McGorray SP, Wheeler TT, Dolce C, Taylor M. Comparison</p>

of peer assessment ratings (PAR) from I-phase and 2-phase treatment protocols for Class II malocclusions. Am J Orthod Dentofacial Orthop. 2003 May; 123(5):489-96.

I spoke at the American Association of Orthodontist meeting Orlando, FL April 30 -May 2 2004. The title of my talk was "Orthodontic tooth movement and osteoclast -based therapeutics"