

## AAO Foundation Award Final Report

Principal Investigator	Guoqiang Guan
Co-Investigator	
Secondary Investigators	
Award Type	Orthodontic Faculty Development Fellowship Award
Project Title	<b>Pursue the excellence of orthodontic teaching and research</b>
Project Year	7/1/2011 – 6/30/2012
Institution	SUNY Buffalo
Summary/Abstract (250 word maximum)	<p>In this fiscal year, as a junior faculty at SUNY Buffalo, I did my best effort to contribute substantially to both teaching in the orthodontic clinic and research in craniofacial biology.</p> <p>As the course director of four postgraduate courses for the residency program, I am enjoying in teaching Craniofacial Growth and Development, Biology of Tooth Supporting Tissues, Biology of Tooth Movement, and an advanced Orthodontic Seminar. Currently, working with our chairman Dr. Preston, I am developing a clinical course closely related to training our three year residents more efficient for treatment planning and problem -solving.</p> <p>As a principle investigator in orthodontic research, an important improvement from last year is that I obtained part of the pilot data as described in the research proposal of my last application. This Orthodontic Faculty Development Fellowship Award was an important support to my continued dedication to orthodontic teaching and research. As a result from this award, four full scientific papers were published/in press by the peer-reviewed journals, such as <i>International Journal of Pediatric dentistry</i>, <i>Dental Traumatology</i>, <i>Journal of New York State Dental Association</i>, <i>Journal of World Federation of Orthodontists</i>.</p> <p>There is no doubt that this OFDFA played an important role to these achievements. I really appreciate the AAOF's support to my academic career.</p>
Were the original, specific aims of the proposal realized?	Yes

<p>Were the results published? If not, are there plans to publish? If not, why not?</p>	<p>Yes.          -Wang, Y, Preston, B, <b>Guan, G</b>: Tooth bioengineering leads the next generation of dentistry. <i>International Journal of Paediatric Dentistry</i>. 2012 Jan 8. doi: 10.1111/j.1365-263X.2011.01206.x.          -Guo, J, Wang, Y, Cao, C, Dziak, R, Preston, P, <b>Guan, G</b>: Human periodontal ligament cells reaction on a novel hydroxyapatite-collagen scaffold. <i>Dental Traumatology</i> 2012 Jun 8. doi: 10.1111/j.1600-9657.2012.01152.x.          -<b>Guan, G</b>, Wang, Y, Lo, T, Preston, CB: Prevalence of tooth agenesis in an orthodontic patients population in Western New York. <i>New York State Dental Journal</i> (in press)          -Al-Quahtani, N, Preston, CB, <b>Guan, G</b>: Perception of dental professionals and lay persons to altered mandibular incisors crowding. <i>Journal of the World Federation of Orthodontists</i>  <a href="http://dx.doi.org/10.1016/j.ejwf.2012.06.002.x">http://dx.doi.org/10.1016/j.ejwf.2012.06.002.x</a>.</p>
<p>Have the results of this proposal been presented? If so, when and where? If not, are there plans to do so? If not, why not?</p>	<p>Part of them were presented at 2012 AAO Annual meeting.          -Symposium: Bone/Tooth Biology          -Invited Speaker: Dr. Guoqiang Guan, invited by AAO          -Title: Tooth Agenesis: from clinic to lab to clinic.          -Date: May 5, 2012          -Place: Hawaii, USA</p>
<p>To what extent have you used, or how do you intend to use, AAOF funding to further your career?</p>	<p>The AAOF funding is an important source to my research for collection of the valuable pilot data to improve the competitiveness for the future grant application.</p>