

# DSB WEEKLY

## Christine White, Editor

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## Dr. Gustavo Avila-Ortiz Receives Two-Year, \$107,586 Sunstar Americas, Inc. Grant



Dr. Gustavo Avila-Ortiz, Department of Periodontics, has been awarded a two-year, \$107,586 grant from Sunstar Americas, Inc., for his research, "Prospective, Comparative Assessment of Alveolar Ridge Preservation Using Guidor Easy-Graft Class in Atraumatic Extraction Socket."

The primary objective of the study is to investigate linear and volumetric osseous changes at four months following ridge preservation by calculating horizontal and vertical bone changes via cone beam computed tomography (CBCT). The secondary objectives of the study are to evaluate new bone replacement/remaining graft residuals at re-entry (histomorphometric assessment), change in mesial and distal marginal bone loss on periapical radiographs from baseline to re-entry, and change in mesial and distal marginal bone loss on periapical radiographs from crown delivery up to six months and to twelve months after the crown delivery (follow-up observation).

Dr. Avila-Ortiz is the principal investigator. Dr. Kelsey Tengan, graduate fellow, Department of Periodontics, is co-investigator.

## Red-Tailed Hawk Visits 4th Floor Patio



Bryn Boswell (D4 this fall) reported: "A couple of us hung out with this awesome hawk on the 4th floor patio last night ..."

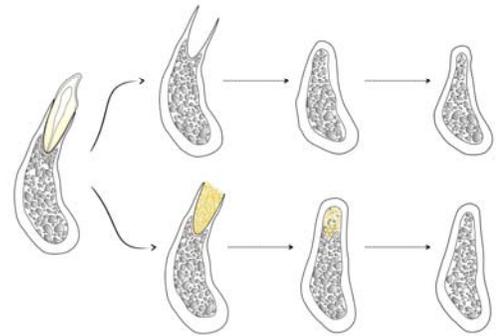


## Research at the College of Dentistry

### An Interview with Dr. Gustavo Avila-Ortiz, Department of Periodontics

#### How did you become interested in research?

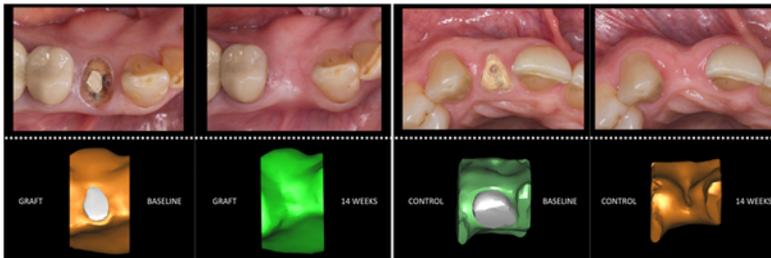
Early in my training at the University of Granada School of Dentistry, I developed an interest in teaching and research, influenced by my exceptional mentor, Dr. Pablo Galindo-Moreno. Under his mentorship, I participated in a variety of research activities while I was a dental student, which further stimulated my hunger for knowledge based on solid science. After I graduated from dental school, in 2003, I enrolled in the PhD program at the same institution, which gave me a nice exposure to basic science and laboratory-based research. Then I moved to the US in 2006 to initiate my specialty training in periodontics at the University of Michigan, and I chose to conduct a clinical study for my MS degree. It was during this period, working with Drs. William Giannobile and Hom-Lay Wang, that my interest in academics and, particularly in clinical research, really took off.



Comparative grid illustrating the clinical and alveolar bone volumetric changes (measured via CBCT analysis) that took place after 14 weeks of healing post-extraction in two different treatment groups. The site on the right (tooth #29) underwent ridge preservation via socket grafting after tooth extraction, whereas the site on the left (tooth #7) received tooth extraction alone, as a control therapy.

#### What is it about alveolar bone and its healing dynamics that interests you?

The alveolar bone is one of the components of the periodontium, and as I advanced in my specialty training and learned more about alveolar bone biology, my interest in this biological structure grew exponentially. What we know about its variable response in the pathogenesis of periodontitis, as well as its fate after prolonged occlusal trauma or tooth loss, is truly fascinating, but there is so much more that we still do not know about it, and as a clinical researcher, that makes the alveolar bone very attractive to me.



(Above): Illustration comparing typical alveolar bone changes after natural healing (upper row) as compared to alveolar ridge preservation via socket grafting (lower row) after tooth extraction.

#### How can your research be applied to periodontology or to other areas of dentistry?

Tooth extraction is one of the most commonly performed dental procedures in clinical practice nowadays. It is well known that the alveolar bone, and other surrounding structures, respond to the absence of a tooth in the alveolus (socket) through a process of progressive atrophy, due to the absence of mechano-stimulation that normal masticatory forces exert on the periodontal tissues, which are essential for proper tissue homeostasis and structural maintenance. Understanding the role that different local and systemic factors play in the process of alveolar bone resorption after tooth extraction is fundamental to design personalized and targeted clinical protocols for the management of the extraction site in order to optimize interdisciplinary patient care.

Understanding the role that different local and systemic factors play in the process of alveolar bone resorption after tooth extraction is fundamental to design personalized and targeted clinical protocols for the management of the extraction site in order to optimize interdisciplinary patient care.

Written for the *ASDA Blog* by Erica Recker (D3 this fall), Iowa '18, District 8 communications chair



As a high school senior, I had an opportunity to interview for a collegiate scholarship, during which I discussed my aspirations for a career in dentistry with an all-male panel of judges. I remember being asked, "Why don't you want to be a dental hygienist or an assistant? Aren't those the typical roles in dentistry for a female?"

I was taken aback. I was sure that it wasn't their intention to instill self-doubt in a woman pursuing a career in a male-dominated industry. However, I couldn't help but feel as if I was being relegated to another career, based strictly on traditional gender roles.

When I tell people that I'm in dental school, many automatically assume that I'm studying to become a dental hygienist. To that, I just smile and politely correct them by saying, "No, I am in a four-year DDS program." However, this misconception comes as no surprise. A 2012-13 ADA Survey of Allied Dental Education found that a whopping 95.8% of dental hygiene students are women. Yet, every individual, male or female, has something unique to bring to the dental workforce. While dental hygienists are absolutely vital to the success of a well-run practice, I, like many of my female colleagues, simply chose to take a different career path.

A 2015 study published in the *Journal of Oral Research and Review* noted that women currently make up nearly half of all dental students and 25% of practicing dentists. In the past few decades alone, we've been increasingly integrated into leadership positions, from taking on prominent roles within organized dentistry to conducting cutting-edge research at leading academic institutions. Dental equipment manufacturers have taken notice of this shift and are now catering their designs toward women practitioners. Yet, despite the many women before me who have broken down societal barriers by diving head-first into such a demanding field, we are still underrepresented and underpaid compared to our male counterparts. It is evident that we still have a lot of work to do.

You might be wondering: what steps can we take towards reinforcing the image and reputation of women as quality health care providers? By definition, a gender role is a set of behaviors, attitudes and activities expected from males and females, based on societal norms. Here are some ways women can continue redefining traditional gender roles within our profession, simply by challenging the status quo.

**Take on leadership roles** – within your class, within your institution and within organized dentistry on a state and on a national level. Did you know that 2015-2016 ADA President Carol Summerhays is only the fourth woman to be elected ADA president? This demonstrates the need for more leadership development for females, especially at a local and state level.

**Become mentors** – behind every successful individual is a mentor who has helped hold the ladder as he or she has climbed to success. Organizations such as the American Association of Women Dentists (AAWD) can not only provide networking opportunities for mentors and mentees to come together, but also serve as a forum to discuss solutions for common issues that women face within dentistry.

**Enter academics** – influence and shape the minds of future generations of dentists. A 2010 study in the *Journal of Dental Education* noted that while the percentage of women represented in research and academia has increased in the past 22 years, we are still considered grossly underrepresented in the upper levels of our profession, such as in tenure-track full-time faculty positions. Increased representation in academia could pave the way to creating a more supportive environment for women to come.

**Take an active role** in organized dentistry – there is strength in numbers and our opinions matter, especially when it comes to issues that women dentists face. Let your voice be heard!

The question posed to me so many years ago is still imprinted in my mind, but I've since chosen to use it as a motivator. I believe that I can achieve whatever I put my mind to and the fact that I am a woman should not hold me back. More importantly, I want my female colleagues to feel empowered in the same way. I hope that we can continue to break down gendered stereotypes and work towards improving the culture within our profession to develop an atmosphere of mutual respect. It's on us to play an active role in implementing this change and I invite all of my female colleagues to join me in facing this challenge head-on.

*"Here's to strong women: may we know them. May we be them. May we raise them." – Unknown*

### From Dean David Johnsen:

During the 5<sup>th</sup> Annual College of Dentistry Talent Show last May, one of the performances included a photo of Professor William Johnson with a caption asking why he had not retired. It is not unusual to lampoon or roast someone at these events, but occasionally something intended as a lighthearted joke may be hurtful to the subject. In this case, suggesting that a faculty member should have retired may imply that the faculty member is out of date or is no longer competent. Although the intent may not have been to cause offense or to be taken as a serious criticism, Professor Johnson was personally embarrassed by it and believes it reflects poorly on the College of Dentistry. I interviewed the student and am convinced that the student had a good experience in Endodontics, thought highly of Dr. Johnson and that there was no malicious intent. On behalf of the College of Dentistry, I would like to express our regret to Professor Johnson that this happened. In response, we have taken steps to ensure that content for future shows will be screened so that we can achieve our goal of making these events enjoyable for everyone.

### All College Book Read

Book: *Just Mercy* by Bryan Stevenson

Date: Tuesday, August 30

Time: 12:00–1:00 pm; Where: W220B

Who: Everyone is invited to attend!

Host: COD Diversity Committee

### Houchen Bindery Schedule: July 25-28

The above dates reflect Monday-Thursday pickup and delivery. Please have orders ready by Monday at noon. Routes may change without warning.



### Recent Publications

Tadinada A, Mahdian M, Vishwanath M, **Allareddy V**, Upadhyay M, Yadav S. Evaluation of alveolar bone dimensions in unilateral palatally impacted canine: a cone-beam computed tomographic analyses. *Eur J Orthod*. 2015 Dec; 37(6):596-602.

**Marchini L**, Montenegro FLB, **Ettinger RL**. Gerodontology as a dental specialty in Brazil: what has been accomplished after 15 years? *Braz Dent Science*. 2016 Apr/Jun; 19(2):10-17.

**Ettinger RL**. Editorial: who will treat our aging population? *Braz Dent Science*. 2016 Apr/Jun; 19(2):1-9.

**Ghazal TS**, **Levy SM**, Childers NK, **Broffitt BA**, **Caplan DJ**, **Warren JJ**, Cavanaugh JE, **Kolker J**. Dental caries in high-risk, school-age African American children in Alabama: a six-year prospective. *Pediatr Dent*. 2016 May/Jun; 38(3):224-230.



### Dental Filling Station July 11-15, 2016

**Note: The Filling Station has moved to W220 A&B.**

#### Monday:

Asian Stir Fry & Vegetable \$6.00

Deli & Paninis

#### Tuesday:

Cheddar Bacon Chicken Sandwich & Chips \$5.00

Deli & Paninis

#### Wednesday:

BBQ Chicken Sandwich & Chips \$4.50

Deli & Paninis

#### Thursday:

Chicken Fried Steak/ Potato & Vegetable \$6.00

Deli & Paninis

#### Friday:

Cheeseburger with Chips \$5.30

Deli & Paninis



### Filling Station Summer Hours:

May 18-July 1 (7:30-4:00 M-Th; 7:30-3:00 F);

July 5-July 30 (7:30-2:00 M-F)

### *As I Get Older, I Realize —*

1. I talk to myself because sometimes I need expert advice.
2. Sometimes I roll my eyes out loud.
3. The biggest lie I tell myself is "I don't need to write things down; I'll remember it."
4. When I was a child, I thought nap time was punishment. Now it's like a mini vacation.
5. Even duct tape can't fix stupid, but it can muffle the sound.
6. Wouldn't it be great if we could put ourselves in the dryer for ten minutes, come out wrinkle free and three sizes smaller?
7. "Getting lucky" means walking into a room and remembering why I'm here.

# Employee



# Breakfast

Thursday, July 14  
8:00-9:30am  
First Floor Link

Brought to you

By Staff Development



# College of Dentistry

**James P. O'Connor, PhD**

Associate Professor, Biochemistry & Molecular Biology  
– Rutgers New Jersey Medical School

## Noon Presentation

“Regulation of Bone  
Regeneration by COX-2”

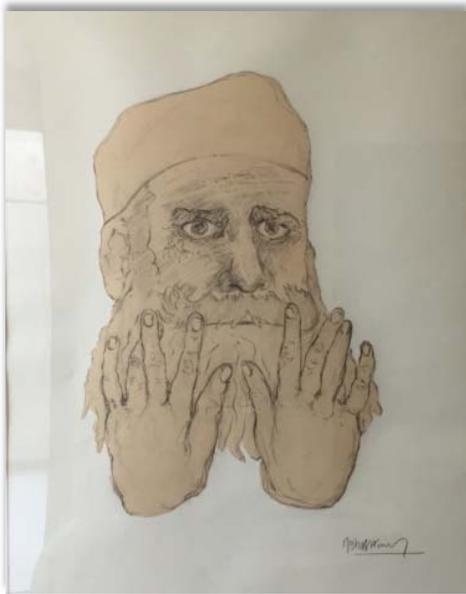
**Galagan 14B DSB**  
**Tuesday, July 19, 2016**  
**12:00 – 1:00 PM**



Individuals with disabilities are encouraged to attend all University of Iowa-sponsored events. If you are a person with a disability who requires an accommodation in order to participate in this program, please contact The College of Dentistry at (319)335-9650.

**The UI College of Dentistry & Dental Clinics Biorepository  
Advancing Research for Healthy Teeth and Gums  
Are You Interested in Participating?**

- ⇒ We will conduct a short interview and collect your biological specimen.
- ⇒ Do not eat or drink for 90 minutes prior to your biological specimen collection.
- ⇒ Please allow 30 minutes for your specimen collection.
- ⇒ All data/biological specimens will be coded, de-identified, and stored in a locked biorepository lab at the College of Dentistry & Dental Clinics.
- ⇒ The specific nature of the research it may be used for will vary but will always relate to health research.
- ⇒ Patients will receive a \$5 gift card or 4 hours of free parking at the DSB.
- ⇒ Please contact Karen Kluesner (319) 335-7377 or Amber Marolf (319) 335-7411 or email: dentistry-biorepository@uiowa.edu.



(Above): One of the works by Diego Lasansky (BFA 2016), which is on display in the west addition of the College of Dentistry.

**Artist Diego Lasansky's Works Currently Being Exhibited at the Cedar Rapids Museum of Art**

Some of the art work displayed in the College of Dentistry's west addition is done by Diego Lasansky (BFA 2016). There is currently an exhibit of his work at the Cedar Rapids Museum of Art through October 2, 2016. This is Lasansky's first museum exhibition.

Diego's grandfather, Mauricio Lasansky, was a famous printmaker who established the school of printmaking at the University of Iowa. The Cedar Rapids Museum of Art has a collection of Lasansky's prints on permanent display.

The museum, located on Third Avenue between Fifth and Third Streets, is open Tuesday, Wednesday Friday, and Sunday from 12:00 p.m. to 4:00 p.m.; Thursday 12:00 p.m. to 8:00 p.m.; and Saturday 10:00 a.m. to 4:00 p.m.

For more information about Diego Lasansky, go to: <http://www.crma.org/exhibition/Detail/Upcoming/Diego-Lasansky-A-Portrait-of-the-Artist-as-a-Young-Man.aspx>.

Lasansky's own web site is: [diegolansky.com](http://diegolansky.com).

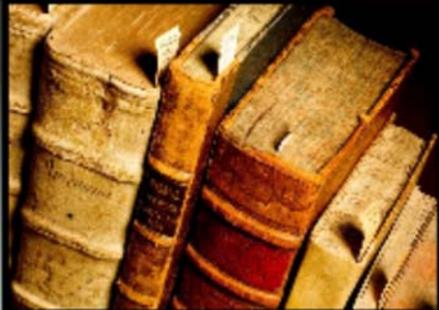
Notes from the  
John Martin Rare Book Room  
July, 2016

**BERNARDINO GENGA (1620-1690).** *Anatomia per uso et intelligenza del disegno; ricercata non solo su gl'ossi, e muscoli del corpo humano...* Rome: Domenico de Rossi, 1691.



An authoritative anatomist and surgeon in Rome, Genga stressed the importance of solid anatomical knowledge for the surgeon. Genga wrote the first book devoted entirely to surgical anatomy which remained a widely used manual for fifty years. Genga was one of the first Italians to accept Harvey's theory on the circulation of the blood, but Genga also maintained that the discovery was made by Colombo and Cesalpino before Harvey. The parts played by those two Italian investigators and anatomists in the unfolding of the facts of circulatory physiology have been a point of study and argument among medical histori-

ans. This large atlas contains 40 magnificent full-page engraved plates depicting the human figure in various poses, with and without dissection. Some of the full-figure plates are engraved renditions of celebrated antique statues in Rome. The plates, probably engraved by François Andriot, were intended primarily for the use of painters and sculptors, and they are still considered to be one of the best collections for the use of student artists. The text is by Giovanni Maria Lancisi.



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