

COM Newsletter

Spring 2017

From the office
of the Dean

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Campus News



Ribbon Cutting for the Mobile Classroom for Diabetes Prevention Program Held March 13, 2017

Nearly half of all California adults are estimated to have undiagnosed diabetes or prediabetes, a precursor to life-threatening Type 2 diabetes. Since diabetes is more commonly seen among older adults, the fact that 33 percent of California adults ages 18 to 39 have prediabetes is of particular concern as most do not even know they have it.

The ribbon cutting ceremony for the mobile classroom for the Diabetes Prevention Program was held on March 13, 2017. It featured representatives from Sutter Health our major sponsor along with our other sponsors representing Solano Public Health, Findlay RV and TEAM Superstores. Additional dignitaries included John Vasquez and Erin Hannigan the Chairman and Vice Chairwoman of the Solano County Board of Supervisors, Councilman for the City of Vallejo Hermie Sunga, representatives from the offices of Senator Bill Dodd, Tom Bartee and office of Assembly member Tim Grayson and Jana Modera among many others.

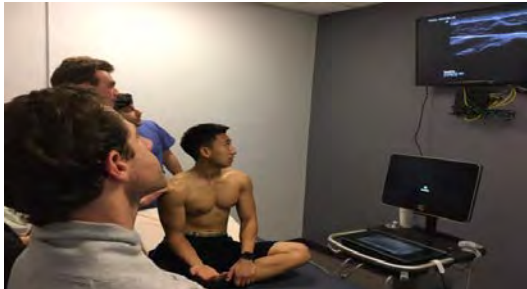
This new mobile classroom will allow us to extend the wonderful work of the Diabetes Prevention Team under the leadership of Dr. Jay Shubrook to areas of our county that are most in need of a healthy intervention to prevent diabetes. To date the DPP team has already trained over 330 coaches and 6 master trainers who have impacted hundreds if not thousands of children and adults at risk for diabetes.

- The 13th Teen Life Conference occurred on February 15 and was a huge success bringing together students from Vallejo, Benicia, and Pinole along with their teachers and school administrators. This is an annual event put on by Touro students for local high school students who spent the afternoon on our campus learning about healthy lifestyle and about healthcare careers.



- In February IT introduced a new fleet of 18 Xerox color multi-function student printers on campus. These devices are located in the Library, Library Annex, Lander Hall, Wilderman Hall, Farragut Inn, and the School of Nursing building.

COM NEWS



Expanded Team-Based Learning Ultrasound Suite



Chris Fox MD Associate Dean for UC Irvine with TUC students at Ultrafest

- The expanded ultrasound team-based learning suite in Lander Hall added two additional ultrasound machines in March. This expansion will allow the expansion of our ultrasound program to enhance our student's anatomy skills, diagnostic acumen, and communication skills.
- The COM student team took first place in the contest at the Stanford Ultrasound event "Ultrafest" this year. Pictured above with Chris Fox MD Associate Dean for UC Irvine who is one of the leaders in Ultrasound Medical Student Education.
- For the 8th consecutive year we were ranked by US News and World Report for being one of the top 15 medical schools nationally for having our students choose a primary care residency.



- At the 56th Annual Osteopathic Physicians and Surgeons of California (OPSC) conference Dr. Abraham Pera completed his term as President and Dr. Richard Riemer was selected as President Elect. In addition Dr. Patricia Rehfield reaffirmed her membership on the OPSC board.



Dr. Pera accepting Outgoing OPSC President Award



Dr. Riemer Incoming OPSC President

- Dr. Eduardo Velasco was acknowledged by the NBOME for his participation in the Health Promotion Disease Prevention (HPDP) case and exam development for the COMLEX USA exam. In addition Dr. Velasco presented a session at the 2016 AAMC Annual Meeting titled "Student Wellness, Academic Achievement, Resilience and Mindfulness."

STUDENT NEWS

- Congratulations to Jeremy Mosher who was chosen as the 2016-17 Student DO of the Year. This year we had 49 nominations for 21 candidates, with 9 finalists. All the finalists displayed exceptional qualities throughout all their activities and leadership roles.



Jeremy Mosher the 2016-17 Student DO of the Year

- We are very pleased to announce that Katherine Yu, Class of 2019, has received a Schweitzer Foundation Fellowship for 2017-2018. Each year the U.S. Schweitzer Fellows Program® competitively selects approximately 250 exceptional students from the nation's top health and human service schools to follow in Dr. Albert Schweitzer's footsteps. These Schweitzer Fellows, mostly university graduate students, partner with community-based organizations to identify an unmet health need, design a yearlong service project with a demonstrable impact on that need, and bring that project from idea to implementation and impact, all on top of their usual graduate school responsibilities. After successfully completing their initial year, they become members of the Schweitzer Fellows for Life alumni network of over 2,000 Leaders in Service who are dedicated and skilled in meeting the health needs of underserved communities. Congratulations to student doctor Yu who joins six prior TUCOM students who have likewise inspired us with their passion and commitment. The following are the seven TUCOM students who received this recognition since we began participating in the program in 2010:

THE ALBERT SCHWEITZER FELLOWSHIP®

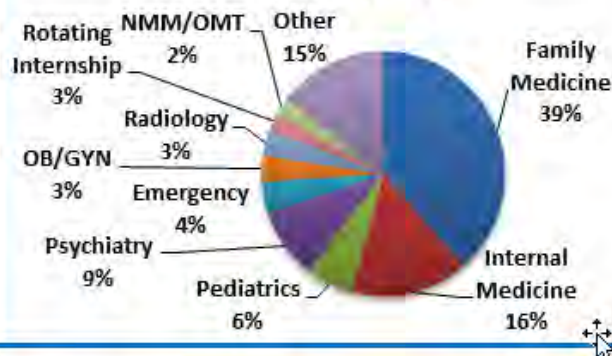
*Improving Health
Developing Leaders
Creating Change*

- 2017 Student Doctor Katherine Yu for a project to connect existing community organizations to deliver diabetes education in Solano County
 - 2015 Student Doctors Martha Benitez and Tyler Fleming for their work in increasing colorectal cancer screening rates in underserved populations
 - 2014 Student Doctor Melissa Belec who received the Fellowship for working with the People’s Garden of Vallejo to improve nutrition awareness and food security among people transitioning out of homelessness
 - 2013 Student Doctor Soaman Dizechi for providing nutrition and fitness information to low income Hispanic/Latino families.
 - 2011 Student Doctor Jennifer Tran for increasing bone marrow donation registration among Asian American young adults
 - 2010 Student Doctor Michael Herndon for improving mobile clinic services to patients experiencing acute and chronic homelessness
- Congratulations to student doctors Hong Le OMS III, Evelyn Martinez-Salazar OMS III and Vivian Partida OMS III who are the first recipients of the COM Diversity scholarship award. These recipients reaffirm our vision to prepare outstanding osteopathic physicians for the future needs of patients and communities in creating a culture and environment that is fully inclusive representing a diverse group of students, staff, faculty and leaders.
 - The Class of 2017 completed another successful residency match season on Friday, March 17. As in prior years a significant majority of the class (61%) chose residencies in Primary Care, up from 57% in 2015 and 2016. For the fifth year in a row 40% of the residency matches were in California, including at new programs in the Bay Area (John Muir Health) and first-time matches at others (e.g., Cedars Sinai). Approximately one-third of the graduating class matched to AOA-accredited programs, including into two of the eight national positions in Neuromusculoskeletal Medicine/OMT. The Class of 2017 includes a large group of military scholarship students (10%) matched to a breadth of disciplines including OBGYN, emergency medicine, family medicine and anesthesiology. Outside of Primary Care the largest residency cohort was Psychiatry (11 matches), characterized once again by a nationwide distribution from New York to Hawaii. We congratulate each member of the class for their hard work and preparation for this next career stage, and look forward to seeing everyone at Commencement.

Class of 2017 Match Distribution



Class of 2017 Residency Match Choices



- At the 56th Annual OPSC conference Yasmin Hadian (OMS2) took first place in the poster competition and Mohammad Khorsand (OMS2) took second place!
- Congratulation to the following students who were selected by the COM faculty for the following annual Graduating student awards:
 - * Outstanding Student in Basic Science: Amber Ruiz
 - * Outstanding Student in Osteopathic Manipulative Medicine: Vanessa Newman
 - * Pediatric Distinguished Student Award: Imran Masoud
 - * Outstanding D.O. Graduate: Imran Masood
 - * Bernard I. Zeligler Leadership/Service Award: Anthony Anguille-Valles
- Congratulations to the newest class of COM Gold Humanism Honor Society. These students were nominated by their peers based upon their embodiment of the ideals of humanism in medicine: compassion, professionalism, commitment to the highest standard of patient care, ethics, and volunteering in the community:
 - * Nazanin Ahmadih
 - * Yassaman Ahmadih
 - * Martha Benitez
 - * Shasha Chen
 - * Stanley Cheng
 - * Tyler Fleming
 - * William Graven
 - * Marissa Haberlach
 - * Mallory Mitchell
 - * Jeremy Mosher
 - * Matea Orlovic
 - * Matthew Ortega
 - * Vivian Partida
 - * Arpita Sinha
 - * Priya Thumma
 - * Wendy Zhou



- We would like to thank Dr. Rehfield as our liaison with the Hazelden Betty Ford Foundation SIMS week long immersion experience, which will provide travel and lodging expenses this summer for five of our students. This program is highly competitive and our cohort represents the second largest group nationally.
- Congratulations to our students who will benefit from didactics and clinical exposures to substance use disorders and their impact on the patients and their loved ones.

- * Nicholas Williams (6/5-6/9 Rancho Mirage)
- * Vivian Partida (6/19-6/23 Rancho Mirage)
- * Jeremy Mosher (7/24-7/28 Center City)
- * Tracy Krinard (7/31-8/4 Rancho Mirage)
- * Neelam Grewal (8/14-8/18 Rancho Mirage)

Alumni News

- Dr. Sharon Larson (class of 2007) became the first female cardiothoracic surgeon at the University of Iowa Hospitals and Clinics and is the only female cardiothoracic surgeon practicing in the state of Iowa.
- Dr. Elaine Ho (class of 2016) was elected chairperson to the newly formed ACOFP resident's council by her peers at the annual OPSC conference.
- Several recent alumni have been selected as Chief Resident at their respective institutions:
 - * IM - Kaiser Oakland - Pierce Stewart, DO Class 2012
 - * IM - Santa Clara Valley Medical Center - Jayaram Chandrasekar, DO Class 2013
 - * IM - Kaiser Santa Clara - Anya Lucero, DO Class 2013
 - * Pediatrics - Children's Hospital of Oakland - Tristan Nichols, DO 2013
 - * FM - O'Connor Hospital - Jennifer Tran, DO Class 2013
 - * Peds - UCSF Fresno - Alicia Hardcastle, DO Class 2012
 - * Neurology - UC Davis - Shweta Tekchandani, DO Class 2012

Congratulations to all our Chief Residents!

Department Updates

Primary Care



- At the American College of Osteopathic Family Physicians conference in Orlando, Florida, in March Dr. Gail Feinberg, received the Distinguished Fellow award. To underscore the significance of this honor, including Dr. Feinberg there are now only 4 distinguished fellows in California.

- Also at the ACOFP meeting Dr. Alesia Wagner was presented the Master Preceptor Award. This was the inaugural cohort of recipients of this award. There were 11 winners in total. Congratulations to Dr. Wagner on this prestigious and noteworthy award.
- Drs. Feinberg, Pfothenauer, and Wagner served as examiners for the AOBFP administering OMT practical exams for AOA family medicine certification and recertification candidates as well as delegates to the ACOFP congress of delegates. Additionally, Dr. Pfothenauer represented the American Diabetes Association by lecturing at the annual meeting.
- Congratulations to Dr. Catherine West who received special recognition award for her contributions to osteopathic student education at the OPSC Conference.
- Dr. Alesia Wagner was acknowledged by the NBOME for her participation in the Clinical Decision Making case and exam development of the COMLEX USA exam and Dr. Tami Hendriksz was acknowledged for her contribution on COMAT item writing workshop.



OMM



Dr. Stacey Pierce-Talsma taught a student lab session at the American Academy of Osteopathy Convocation and was highlighted on the AOA website for “7 things your back is trying to tell your back”, “Just say Om: How yoga can help prevent and manage back pain” and “How yoga helps survivors of trauma.”

<http://www.prevention.com/health/7-things-your-back-pain-is-trying-to-tell-you/slide/6>
<http://www.prnewswire.com/news-releases/just-say-om-how-yoga-can-help-prevent-and-manage-back-pain-300407048.html>
<http://health.usnews.com/wellness/mind/articles/2017-03-29/how-yoga-helps-survivors-of-trauma>

- Dr. Melissa Pearce received the Most Valuable Physician award at the 56th Annual OPSC conference. Dr. Pearce continues to serve as the Education Chair for OPSC.



Basic Sciences

- Dr. Tamira Elul gave a presentation about Touro as a Jewish Sponsored Medical School at the BBYO (B’nai B’rith Youth Organization) regional convention to over 200 Jewish students in 8th-12th grade and beyond, and then gave a more in depth presentation about Touro and the Israel Global Health site, to about 60 of the students.



- Dr. Shin Murakami was recognized by the NBOME for his contributions to COMAT foundational biomedical sciences item review.

Research News

- Congratulations to Drs. Melissa Pearce, David Crotty and Evan Hermel on being awarded an AOA grant for \$150,000 for their grant “Reducing Inflammation with Osteopathic Treatment (RIOT)”. This grant will investigate the efficacy of OMT on subclinical inflammation in those subjects with diabetes and/or obesity and the metabolic syndrome.
- Dr. Andrea Taylor and Joel Talsma study the details of spine anatomy to help patients with back pain with funding from the Spine Intervention Society (SIS), and in conjunction with Dr. Anand Joshi, Dr. Timothy Amrhein and Dr. Megan Holmes from Duke University School of Medicine. Dr. Taylor and Joel Talsma are conducting detailed cadaveric dissections to trace the pathways of the nerves that send pain signals from the joints of the spine back to the central nervous system. Their goal is to better understand the pathway of these nerves to lead to more accurate clinical procedures to relieve spinal joint pain. Their collaboration is a prime example of how researchers from different institutions come together to attack a problem, for more information, contact Dr. Andrea Taylor (andrea.taylor3@tu.edu) or Mr. Joel Talsma (joel.talsma@tu.edu).
- Dr. Megan Holmes from Duke was awarded funds for a short-term visiting scholarship from the American Association of Anatomists to train in Dr. Andrea Taylor’s lab on our campus. Here is the link to the entire story of this collaborative effort.
<http://amasan.informz.net/admin31/content/template.asp?sid=46465&ptid=1418&brandid=3960&uid=898980076&mi=5971042&ps=46465>



- Congratulations to Dr. Andrea Taylor, who received a National Science Foundation (NSF) grant for \$224,278
Project Title: Function and Evolution of Jaw-Muscle Fiber Type in Primates Report Type.
- Dr. Taylor received another NSF grant titled "Collaborative Research: Integrative Investigation of the Evolution and Biomechanics of Mandibular Form in Hominids" (Award to Dr. Taylor: \$84,159; Total award: \$318,519). The primary focus of this research is to model and test hypotheses about jaw function and biomechanics in our earliest human ancestors. As part of this work, Dr. Taylor will travel to Africa to study original fossil material housed at the National Museums of Ethiopia and Kenya. In addition to Touro University, this collaborative research involves investigators from the:
 - * University of Chicago School of Medicine,
 - * University of Missouri School of Medicine,
 - * Arizona State University, and the
 - * American Museum of Natural History.
- Congratulations to Yasmin Bains, OMS 1 and Yasmin Hadian, OMS II who presented their work conducted at Dr. Gugliucci's lab at the World Congress of Insulin Resistance, Diabetes and Cardiovascular Disease. Their poster was titled, "Dyslipidemia in pregnant women and the AGE-RAGE axis in mothers and their neonates." Yasmin Bains¹, Amir Olfat^{1,2}, Yasmin Hadian¹, Russell Caccavello¹, Masaaki Nagatsuka³ Satoshi Kimura⁴ and Alejandro Gugliucci¹
- Yasmin Hadian, OMS II, Yasmin Baines, OMS I and Amir Olgat, OMS I from Touro Middletown whose summer internship in Dr. Gugliucci's lab also resulted in an abstract "Serum GTTP correlates negatively with paraxonase 1 in pregnant women" that will be presented at the European Atherosclerosis Conference in April.
- Dr. Gugliucci established a collaboration with the University of Guanajuato, Mexico, and is training PhD students in Nutrition and Medical Sciences. They conduct research internships in the lab at TUCOM. This collaboration started in 2014, and is funded by grants of the CONACYT (Research Council of Mexico). The first PhD candidate, Reyna Rodriguez Mortera will graduate in April 2017. This will be the first PhD co-mentored by faculty and a lab from our TUC campus. They presented and published their first abstract at the World Congress of Insulin Resistance in LA, 2017 (Endocrine Practice) and will also present at the European Atherosclerosis Society 84th Meeting in Prague, April 2017.



- Dr. Gugliucci established a collaboration with the School of Chemistry, Department of Food Sciences, University of Uruguay and started mentoring Master students. Agustina Irazusta is in her 1st year and will also visit the lab in August 2017, as part of her training. Dr. Gugliucci visited and lectured in that department in November 2016. Funding was secured through the Agency for Research and Innovation, Uruguay.
- Dr. Gugliucci was a co-organizer and member of the scientific committee of the CIIAL, 2nd Iberoamerican Congress of Food Science and Technology. He delivered a keynote lecture on Fructose, NAFLD and childhood obesity in Punta del Este, Uruguay, 13-14 November 2017.
- Dr. Gugliucci was invited to give a seminar at the School of Pharmacy, University of Buenos Aires, on

November 18th, 2016. He lectured on the role of fructose in atherogenesis and NAFLD. He was also invited as a speaker to the Israeli Society for Atherosclerosis, Haifa, November 2016, where he presented on the role of fructose on dyslipidemia. "AGEs and RAGE and their role in CVD risk in adolescents with and without obesity".

PUBLICATIONS

Peer Reviewed Articles

- Antón SC, Taboada H, Middleton ER, Rainwater CW, **Taylor AB**, Turner TR, Turnquist JE, Weinstein KJ, Williams SA, 2016. Morphological variation in *Homo erectus* and the origins of developmental plasticity. *Philosophical Transactions of the Royal Society B*, 371: 20150236 (DOI: 1098/rstb.2015.0236).
- Bates C., and **Lofland D**. New Direct-Acting Antivirals for the Treatment of Hepatitis C. *California DO*. 2016. 16:2; 11-12.
- Coiner-Collier S, Scott RS, Chalk J, Cheyne SM, Constantino P, Dominy NJ, Elgart AA, Glowacka H, Liyola LC, Ossi-Lupo K, Raguet-Schofield M, Talebi MG, Sala EA, Sieradzy P, **Taylor AB**, Vinyard CJ, Wright BW, Yamashiuta N, Lucas PW, Vogel ER, 2016. Primate dietary ecology in the context of food mechanical properties. *Journal of Human Evolution*, 98:103-118.
- **Davis G, Gayer G**. Comparison of Basic Science Knowledge between DO and MD students. *JAOA* 2017;117:114
- Delezene, L.K., **Teaford, M.F.**, Ungar, P.S. Canine and incisor microwear in pitheciids and *Ateles* reflects documented patterns of tooth use. *Am. J. Phys. Anthropol.* 2016 :161: 6-25.
- **Dugan, J.A.**, Chiang, W. & Sobel, L. Ovarian Torsion. *Journal of American Academy of Physician Assistants*, 2016; 29(12): 57-58.
- **Gugliucci A**, Lustig RH, **Caccavello R**, Erkin-Cakmak A, Noworolski SM, Tai VW, Wen MJ, **Mulligan K, Schwarz JM**. Short-term isocaloric fructose restriction lowers apoC-III levels and yields less atherogenic lipoprotein profiles in children with obesity and metabolic syndrome. *Atherosclerosis*. 2016 Oct;253:171-177. doi: 10.1016/j.atherosclerosis.2016.06.048.
- **Gugliucci A**. Formation of Fructose-Mediated Advanced Glycation End Products and Their Roles in Metabolic and Inflammatory Diseases. *Adv Nutr.* 2017;8:54-62.
- Bains Y and **Gugliucci A**. *Ilex paraguariensis* and its main component chlorogenic acid inhibit fructose formation of advanced glycation endproducts with amino acids at conditions compatible with those in the digestive system. *Fitoterapia*. 2017;117:6-10.
- **Gugliucci A**. Fructose surges damage hepatic adenosyl-monophosphate-dependent kinase and lead to increased lipogenesis and hepatic insulin resistance. *Med Hypotheses*. 2016;93:87-92.
- **Gugliucci A**. Reply to: "Unique effect for fructose on lipoprotein risk factors for cardiovascular disease in children is not demonstrated". *Atherosclerosis*. 2016 Dec; 255:221-223. doi: 10.1016/j.atherosclerosis.2016.10.035.
- **Hendriksz T**. Using Patient Perspective Sessions to Increase Empathy and Recall in Preclinical Medical Students. *J Am Osteopath Assoc*. 2016 Oct; 116:662-666.
- Katrina A. Bramstedt, PhD, MA; Clinton M.G. Colaco, MBBS; Eve De Silva, BPsych, BBus(HRM), GDipPsych, GCertHEd; **Patricia L. Rehfield**, DO, MPH; Jennifer S. Blumenthal-Barby, PhD Perceptions of US and Australian Medical Students and Instructors About Clinical Professional Attire: LAPEL Study, *J Am Osteopath Assoc*. 2016;116(4):244 doi:10.7556/jaoa.2016.049. \
- Noonan, AS, **Velasco-Mondragon**, HE, Wagner, F. Improving the health of African Americans in the USA: an overdue opportunity for social justice. *Public Health Reviews*, October 3, 2016; 37:12. Here is the open-access link to the paper: <https://publichealthreviews.biomedcentral.com/articles/10.1186/s40985-016-0025-4>
- **Pierce-Talsma S, Hiserote M, Lund G**. Osteopathic Medical Student Practice of osteopathic manipulative treatment during school break. *JAOA* 2017;117:176-182

- Ross CF, Iriarte-Diaz J, Reed DA, Stewart TA, **Taylor AB**. In vivo bone strain in the mandibular corpus of Sapajus during different oral processing behaviors. *Journal of Human Evolution* 2016 98:36-65.
- **Shubrook J**. Pharmacologic Therapy for Type 2 Diabetes: Synopsis of the 2017 ADA Standards of medical care in Diabetes. *Ann Int Med* 2017; March 21
<http://annals.org/article.aspx?articleid=2609290&questAccessKey=6b593f1a-2b4c-4b29-b60f-7ba6db584f02>
- Ungar, P.S., Healy, C., Karme, A., **Teaford, M.**, Fortelius, M. (2016). Dental topography and diets of platyrrhine primates. *Historical Biology* pp. 1-12. DOI: 10.1080/08912963.2016.1255737
- **Velasco-Mondragon, E**, Jimenez, A, Palladino-Davis, AG, Davis, D, Escamilla-Cejudo, JA. Hispanic health in the USA: a scoping review of the literature. *Public Health Reviews*, December 7, 2016; 37:31.
- **Young, C., Dugan, J.A., Pfothenauer, K., & Shubrook, J.H.** (Pharmacologic Management of Type 2 Diabetes Mellitus: Part 2. Primary Care Reports, 2016; 22(11): 129-139.

Published Abstracts (peer-reviewed journals)

- Wimberly, A.N., Healy, C.A., Hartgrove, C.L., **Teaford, M.F.**, Ungar, P.S. The relationship between dental topography and dental microwear in *Sapajus apella*. *Am. J. Phys. Anthropol. Suppl.* 2016;62: 337.
- Reyna Rodríguez Mortera; **Russell Caccavello**; Claudia Luévano Contreras; Ma Eugenia Garay Sevilla; **Alejandro Gugliucci**, Lower soluble receptor for advanced glycation end products in adolescents with obesity from Guanajuato associations with insulin resistance dyslipoproteinemia , 40A WCIRDC Abstracts, *Endocr Pract.* 2017;23(No. 1.)
- Yasmin Bains; Amir Olfat; Yasmin Hadian; **Russell Caccavello**; Masaaki Nagatsuka;
- Satoshi Kimura; Alejandro Gugliucci, Dyslipidemia in pregnant women and the Age Rage axis in mothers and their neonates 36A WCIRDC Abstracts, *Endocr Pract.* 2017;23(No. 1)

Book Chapters

- **Menini T**. Advanced Glycation Endproducts and Neurological Disease, in *Mechanisms Linking Aging, Disease and Biological Age Estimation*. (2017), Sara C. Zapico Editor, CRC Press. ISBN- 13: 987-1-4987-0969-9
- **Gugliucci A**, *Advanced Glycation and Aging in Mechanisms Linking Aging, diseases, and biological age estimation*, CRC press 2017, pgs. 68-79, ISBN: 13:978-1-4987-0969-9.
- **Gugliucci A**, *Paraoxonase 1 and its clinical relevance in The HDL Handbook 3rd edition*, AP Press 2017, pgs. 187-208 ISBN: 978-012812513-7.

Upcoming Events

- May 4 Research and Interprofessional Day
- May 22 Commencement at Zellerbach Auditorium on the UC Berkeley Campus

