

University of Central Florida

College of Medicine

AcCOMplishments



January - March 2020 Edition

Brought to you by the Faculty Life Office

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Welcome to this quarter's edition of UCF College of Medicine's Faculty AcCOMplishments! This newsletter is designed to highlight our faculty's hard work and dedication to the medical field and the value it adds to our university and community. In addition to highlighting these endeavors, the content also acts as a resource for research collaborations and interests among fellow faculty members. Take a few moments to discover the amazing contributions that our faculty have accomplished.

FEATURED ARTICLE



*Laurel Gorman, PhD
was the featured faculty
member in the international
IAMSE February Newsletter.*

UCF College of Medicine's Medical Education faculty member, Dr. Laurel Gorman, was recently featured in the International Association of Medical Science Educators (IAMSE) February newsletter! Dr. Gorman is an Associate Professor of Pharmacology and Medical Education. She also serves as the Director of Endo-Repro and Brain-Behavior Systems Modules, Director of Preclinical Pharmacology Curriculum, and Chair of the ASPET Division of Pharmacology Education. IAMSE noted Dr. Gorman for her distinguished international contributions to the medical education community. Her interview is reflected in the following passages.

How long have you been a member of IAMSE?

I have been a member of IAMSE since 2011 and a reviewer for IAMSE medical education journals and meeting abstracts since 2012.

In your time with the association, what have you been up to? Committee involvement, conference attendance, WAS series, manuals, etc.?

I have been a member of the programming committee for the 2012, 2018, and 2020 IAMSE meetings. I have presented an IAMSE webinar on high fidelity simulations and basic science teaching. Across the years, I have chaired and presented multiinstitutional educational focus groups/workshops at 4 different IAMSE meetings on diverse topics (simulations, faculty identity, educational incentive misalignment, flipped class teaching). I will co-present another multiinstitutional focus group for the 2020 meeting on "scaling barriers" with vertical integration. A dedicated IAMSE member, I attend the annual meetings regularly and author/co-author several medical education abstracts at each meeting. I have also published

my educational research in the Medical Science Educator.

What has been your experience working on the 2020 Annual Meeting in Denver?

I have enjoyed working on the programming committee and having the opportunity to get to collaborate with a group of passionate medical educators. I am thrilled by the quality of medical education submissions I have had the opportunity to review. I am excited about the 2020 meeting as it will feature discussions of relevant and intellectually engaging topics.

What interesting things are you working on outside the Association right now?

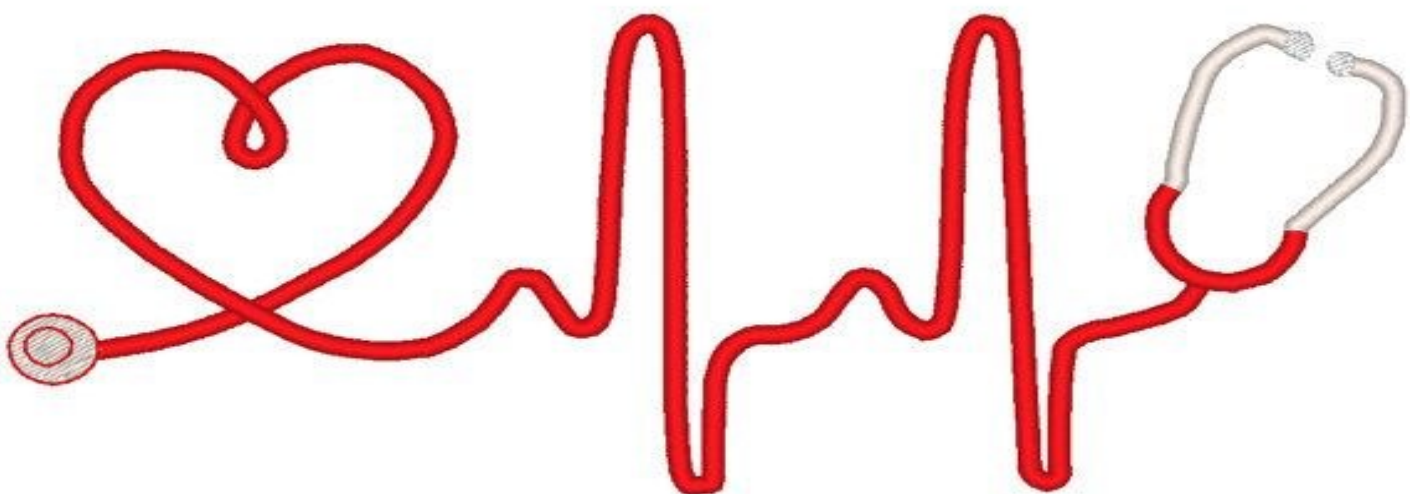
I am passionate about teaching pharmacology as well as other foundational sciences, and excited to participate in diverse scholarly work designed to improve these processes. Areas of my scholarship include geriatric pharmacology education, opioid/addiction curricula, innovative teaching (games, simulations, flipped classes), and integration. I direct the preclinical pharmacology curriculum at my school, and I am very active in promoting educational scholarship, educational programming, and innovative teaching in my role as the Chair of the Association for Pharmacology and Experimental Therapeutics (ASPET) Division of Pharmacology Education. I am also a distinguished fellow of the ASPET Academy of Pharmacology Educators. I have given back to my local community by serving as a content reviewer, presenter, and healthcare educator on opioids and addiction through the Central Florida Area Health Education Center (AHEC), a non-profit organization dedicated to improving opioid and addiction education through innovative educational programming. I have also served my local community in this capacity as the Central Florida Prevention of Prescription Drug Abuse Conference speaker for 2 years.

As a member, what is a standout benefit that keeps you engaged in IAMSE?

The meetings are great! Most of the topics are highly relevant to my educational and curricular roles so I always learn something new. I love interacting with other passionate medical educators, regardless of their discipline or background. The idea exchanges are invigorating, but I also like the networking and hope to continue developing collaborations with educators who share my interests (active learning methods, innovative teaching techniques, curriculum integration, and selected pharmacology topics). I recently joined the IAMSE Pharmacology Interest Group (PHIG) and I enjoy posting blogs and discussing hot topics. I also enjoy reading the Medical Science Educator journal articles.

Anything else that you would like to add?

I am always open to new collaborations and I enjoy mentoring junior scientists interested in improving their teaching or medical education scholarship. I often share ideas from IAMSE with ASPET and I invite my pharmacology education colleagues from ASPET to attend IAMSE as we all benefit from the exchange of ideas and collaborations that can arise between different educational organizations and also different disciplines.



FACULTY PUBLICATIONS

- ♦ Ganapathy K, Staklinski S, Hasan MF, Ottman R, Andl T, Berglund AE, Park JY, **Chakrabarti R** (Mar 2020). [Multifaceted Function of MicroRNA-299-3p Fosters an Antitumor Environment Through Modulation of Androgen Receptor and VEGFA Signaling Pathways in Prostate Cancer](#). *Sci Rep*. 10 (1):5167. doi: 10.1038/s41598-020-62038-3.
- ♦ Ma, Z., Abendroth, J., Buchko, G.W., Rohde, K.H. and **Davidson, V.L.** (2020) Crystal structure of a hemerythrin-like protein from *Mycobacterium kansasii* and homology model of the orthologous Rv2633c protein of *M. tuberculosis*. *Biochem. J.* 477, 567-581. Doi: 10.1042/BCJ20190827.
- ♦ Mamounis, K.J., Yukl, E.T. and **Davidson, V. L.** (2020) Roles of active site residues in catalysis, substrate binding, cooperativity and the reaction mechanism of the quinoprotein glycine oxidase. *J. Biol. Chem.* Epub before print, 31 March 2020 doi:10.1074/jbc.RA120.013198.
- ♦ **Dow TL**, Cross DL, Brown JL. (2020). Determining the efficacy of domperidone and cabergoline for treating ovarian acyclicity in captive African elephants (*Loxodonta africana*). *Journal of Zoo and Wildlife Medicine*. 51(1): 000-000.
- ♦ **Dow TL**, Cross DL, and Brown JL (March 2020) Understanding Prolactin Regulation and Determining the Efficacy of Cabergoline and Domperidone to Mitigate Prolactin-Associated Ovarian Cycle Problems in Zoo African Elephants (*Loxodonta africana*). *Journal of Zoo and Wildlife Medicine*. 51(1): 13-24.
- ♦ Lee E, Eum SY, Slifer SH, Martin ER, Takita C, Wright JL, **Hines RB**, Hu JJ. Association Between Polymorphisms in DNA Damage Repair Genes and Radiation Therapy–Induced Early Adverse Skin Reactions in a Breast Cancer Population: A Polygenic Risk Score Approach. *Int J Radiat Oncol Biol Phys*. 2020;106: 948-957.
- ♦ **Hines RB**, Jiban MJH, Specogna AV, Vishnubhotla P, Lee E, Zhang S. Surveillance Colonoscopy in Older Stage I Colon Cancer Patients and the Association with Colon Cancer-Specific Mortality. *Am J Gastroenterol*. 2020.
- ♦ Johnson AM, Johnson A, **Hines RB**, Mohammadi R. Neighborhood context and non-small cell lung cancer outcomes in Florida non-elderly patients by race/ethnicity. *Lung Cancer*. 2020;142: 20-27.
- ♦ Dennis JE, Splawn T, **Kean TJ**. (25 February 2020) [High-Throughput, Temporal and Dose Dependent, Effect of Vitamins and Minerals on Chondrogenesis](#). *Frontiers in Cell and Developmental Biology*. 8(92). doi: 10.3389/fcell.2020.00092.
- ♦ Ma Z, Abendroth J, Buchko GW, **Rohde KH**, **Davidson VL**. Crystal structure of a hemerythrin-like protein from *Mycobacterium kansasii* and homology model of the orthologous Rv2633c protein of *M. tuberculosis*. *BiochemJ*. 2020 Jan 31; 477(2):567-581.
- ♦ Moini J, Pereira K and **Samsam M**, Epidemiology of Thyroid Disorders, *Elsevier*, Jan 2020, ISBN: 978-0-12-818500-1.
- ♦ **Taliaferro LA**, Doty JL, Gower AL, *Querna K, Rovito MJ. Profiles of risk and protection for violence and bullying perpetration among adolescent males. *Journal of School Health*, 2020; 90(3):212-223.

FACULTY PUBLICATIONS

- ♦ Ingraham K, Hughes CE, **Taliaferro L**, Westers N, Dieker L, Hynes M. Using digital puppetry to prepare physicians to address non-suicidal self-injury among teens. In Proceedings of 21st International Conference on Human-Computer Interaction (HCII2019). Universal Access in Human-Computer Interaction. Theory, Methods and Tools. Switzerland, AG: Springer Nature; 2019, pp.555-568.
- ♦ **Toklu, Hale Z.**; Deighton, Bruce; and Donini, Graig (2020) "A New Journal to Publish Houses of Brick: Introducing the HCA Healthcare Journal of Medicine," *HCA Healthcare Journal of Medicine*: Vol. 1 : Iss. 1 , Article 1; DOI: 10.36518/2689-0216.1046 <https://scholarlycommons.hcahealthcare.com/hcahealthcarejournal/vol1/iss1/1>.
- ♦ **Trolice, Mark**, The Fertility Doctor's Guide to Overcoming Infertility: Discovering Your Reproductive Potential and Maximizing Your Odds of Having a Baby, The Harvard Common Press, 2020. ISBN: 978-1-55832-958-4
- ♦ Rupaimoole R, Yoon B, **Zhang WC**, Adams BD, Slack FJ. A High-Throughput Small Molecule Screen Identifies Ouabain as Synergistic with miR-34a in Killing Lung Cancer Cells. *iScience*. 2020 Feb 21;23(2):100878. doi: 10.1016/j.isci.2020.100878. Epub 2020 Feb 1. PubMed PMID: 32062455; PubMed Central PMCID: PMC7031322.

FACULTY PRESENTATIONS

- ◆ **Davey, Diane** “Interesting Cytology Cases and Career Mentoring for Pathology Residents.” Visiting Faculty and External Department Reviewer, University of Kentucky College of Medicine, Lexington, KY, March 13, 2020.
- ◆ **Dow TL, Cross DL, Brown JL.** (October 2019). “Understanding prolactin regulation and determining the efficacy of cabergoline and domperidone to mitigate prolactin-associated ovarian cycle problems in zoo African elephants (*Loxodonta africana*)”.
- ◆ **Kean, Thomas**
 - ◇ Oral and Poster : “Mechanical testing of tissue engineered cartilage domes and sheets.” (Technical Presentation) *Orthopaedic Research Society Annual Meeting*, Phoenix, AZ, February 2020.
 - ◇ Oral and Poster: “High-Throughput Drug Screening for Osteoarthritis.” (Rapid Fire Talks) *Orthopaedic Research Society Annual Meeting*, Phoenix, AZ, February 2020.
- ◆ **Taliaferro, Lindsay**
 - ◇ Lampe N, Carter S, Nowakowski A, **Taliaferro L.** Examining the reproductive health needs and barriers to care among trans and gender nonconforming young adults in Florida: a qualitative investigation. Trans Pregnancy: Fertility, Reproduction and Body Autonomy Conference. Leeds, United Kingdom, January 2020.
 - ◇ Kanhai M, **Taliaferro L.** Influence of student participation in after-school activities on engagement and student-teacher relationships. American School Health Association Annual Conference. Cincinnati, OH, October 2019.
 - ◇ Waler A, **Taliaferro L.** Extracurricular activity involvement and depression among high school students. Neuroscience Education Institute Congress. Colorado Springs, CO, November 2019.

AWARDS, SERVICE & RECOGNITION

- ♦ **Alvarez, George.** 2nd residential poster award recipient, Society of Hospital Medicine Meeting, February 2, 2020
- ♦ **Bradshaw, Emily.** Recipient of the 2020 Teaching Incentive Award (TIP)
- ♦ **Carrazana, Manuel.** 1st place residential poster award recipient, Society of Hospital Medicine Meeting, February 1, 2020
- ♦ **Fernandez-Valle, Cristina.** Recipient of the 2019-2020 Research Incentive Award (RIA)
- ♦ **Gorman, Laurel**
 - ◊ Featured Faculty Member in the National February IAMSE newsletter
 - ◊ Recipient of the 2020 Teaching Incentive Award (TIP)
- ♦ **Hernandez, Caridad.** Selected as Fellow for the 2020-2021 Hedwig van Ameringen Executive Leadership in Academic Medicine (ELAM) Program for Women
- ♦ **Kyle Rohde (UCF/BSBS), Yulia Gerasimova (UCF/Chemistry), Brian Kim (UCF/CECS), and Pedro Almeida da Silva (Brazil).** NIH R01 grant. “Point-of-care detection of TB and NTM pathogens with Fluorescent Deoxyribozyme Sensors and 3D-printed, battery powered device.”
- ♦ **LaRochelle, Jeffrey**
 - ◊ Promoted to Colonel in US Air Force Reserves, January 31, 2020
 - ◊ Elected to Clerkship Directors of Internal Medicine Council for three year term. <https://www.im.org/about/governance/new-leaders2021>
- ♦ **Pasarica, Magdalena.** Recipient of the 2020 Scholarship of Teaching and Learning (SoTL) Award
- ♦ **Pasarica, Magdalena; Cendan, Juan.** Launched the online Flagship Medical Research Journal, which expanded state-wide
- ♦ **Teter, Kenneth.** Recipient of the 2019-2020 Research Incentive Award (RIA)
- ♦ **Toklu, Hale.** Clinical Co-Editor of new HCA Healthcare Journal of Medicine