



DEPARTMENT OF
ANATOMY & CELL BIOLOGY
Points of Interest

July 2019

Honors and Awards

Dr. Tina Tootle

Big Ten Academic Alliance (BTAA) Academic Leadership Program Fellow.

Ms. Maureen Lamb

Accepted into ASCB Biotech Course with a Travel Award, June 2-8, 2019 in Lowell, MA

Received a Graduate College Summer Fellowship. Ms. Lamb is a Molecular Medicine Graduate Student in Tootle Lab

Mr. Sam Mellentine

Was appointed to a T32 in Genetics. He is a Genetics Graduate Student in Tootle Lab

Dr. Martine Dunnwald

Was invited to give a seminar at the 7th Annual NextGen Stem Cell Conference, Saratoga Springs, NY, May 30, 2019, "From morphogenesis to tissue repair: lessons from cleft patients."

Dr. Marc Pizzimenti

Mentor/Travel Award: Participated as a Faculty Mentor in the Anatomy Training Programme (ATP) at the University of Cambridge (UK), July 8-12, 2019.

The ATP is a joint effort between the [Anatomical Society](#) (UK) and the [American Association of Anatomists](#) (USA) that provides training for those pursuing advanced training in the anatomical sciences. He worked with anatomists from the USA and the UK to develop strategies for teaching and pedagogy.

Honors and Awards Continued

Mr. Mark Li

Recently went to two meetings in San Francisco - Chinese American Diabetes Association (CADA) and American Diabetes Association (AD), and gave an oral presentation entitled, "Beta Cell-Regulated Micropeptide 1 (BGRM1) Controls Cellular Homeostasis in Pancreatic Islet Cells." He received a Fellowship Award from CADA for his presentation.

Dr. Sam Young

Session Chair: Synapses and Circuits: Form and Function, Annual Experimental Biology Meeting, Orlando, FL, April 8, 2019.

Dr. Tom Rutkowski

Was co-organizer of the FASEB Science Research Conference: "The endoplasmic reticulum meeting: from unfolded proteins to disease," in Snowmass Village, CO,

June 23 - 28 2019.

Ms. Erica Gansemer

Was awarded a T32 training grant from the Department of Pharmacology. She is a member of the Rutkowski lab.

Dr. Marc Pizzimenti

Was appointed to serve on the [Educational Affairs Committee](#) of the American Association of Anatomists. His term will end [12/31/2021](#).

Elected to the [Faculty Council](#), representing CCOM. His term will end 04/30/2022

Special Presentations/Seminars

Dr. Tina Tootle

“Prostaglandins: master regulators of actin in the cytoplasm and the nucleus.” Presented at Wayne State University, Lipid group, Detroit, MI. April 16, 2019

“Nuclear actin dynamics during oogenesis”, Spradling Alumni Symposium, Carnegie Institution for Science, Dept. of Embryology, June 15-16, 2019, Baltimore, MD.

Ms. Michelle Giedt

Oral presentation: “Defining the interplay between prostaglandins, lipid droplets, and the actin cytoskeleton.” Lipids at Wayne Symposium, Detroit, MI. Ms. Giedt is a Postdoctoral Fellow in the Tootle Lab.

Dr. Masataka Kawai

“Study of cardiac and skeletal muscle fibers from transgenic animal models to probe mechanisms of contraction,” presented at Wuhan Technological University, Wuhan, Hubei, China, July 9, 2019.

Mr. Zeyuan Zhang

Had a presentation at the Experimental Biology Conference in Orlando April 2019, “Impairment of unfolded protein response-mediated lysosomal function contributes to obesity-associated hepatic insulin resistance.” Mr. Zhang is with the Dr. Ling Yang lab here in ACB.

Dr. Marc Pizzimenti

“[Dissection Dose Response and Laboratory Examination Performance – Influence of Peer Teaching](#),” at Experimental Biology, Anatomy Education Platform Session, Orlando, FL, in April 2019

Dr. Sam Young

Gave a talk at the Annual Experimental Biology Meeting, Orlando, FL, April 8, 2019, “Molecular Mechanisms Regulating Presynaptic Neurotransmitter Release and Impact on Neuronal Circuit Function.”

Dr. John Engelhardt

06/19 “Inflammatory effects of mucus in the absence of infection” (Session entitled: “Mucus: the frontline of innate defense of the lung”) presented at the European Cystic Fibrosis Conference, Liverpool, UK

06/19 “Novel tools to better understand pathophysiology - We can work it out”, Symposium Moderator, European Cystic Fibrosis Conference, Liverpool, UK

New Grant Awards

Dr. John Engelhardt

Title: "Development of Cystic Fibrosis Models in the Ferret"

Sponsor: Cystic Fibrosis Foundation

Grant/Contract #: ENGELH08XX0

Project Period: 06/01/19-05/31/20

Total Award All Years: \$1,825,895

Dr. Marc Pizzimenti

Title: "Online Physical Examination Skills Modules with Integrated Basic Science Review"

Sponsor: Open Hawks Grant/University of Iowa

Project Period: July 1, 2019 - June 30, 2020

Total Award All Years: \$ 9,859

Dr. Ziyang Yan

Title: "Gene Editing for Cystic Fibrosis Gene Therapy in Ferret Models"

Sponsor: Cystic Fibrosis Foundation

Grant/Contract #: YAN19XX0

Project Period: 07/01/2019 - 06/30/2022

Total Award All Years: \$648,000

Dr. Rob Cornell

Title: "Genomic and Functional Analysis of IRF6 Target Genes in Orofacial Cleft Pathogenesis"

Sponsor: NIH

Grant/Contract #: H957800-CG (Contract-Subgrant)

Project Period: 04/01/2019 - 03/31/2024

Total Award All Years: \$812,410

New Publications

Dr. Rob Cornell

Cox TC, Lidral AC, McCoy JC, Liu H, Cox LL, Zhu Y, Anderson RD, Moreno Uribe LM, Anand D, Deng M, Richter CT, Nidey NL, Standley JM, Blue EE, Chong JX, Smith JD, Kirk EP, Venselaar H, Krahn KN, van Bokhoven H, Zhou H, Cornell RA, Glass IA, Bamshad MJ, Nickerson DA, Murray JC, Lachke SA, Thompson TB, Buckley MF, Roscioli T. Mutations in GDF11 and the extracellular antagonist, Follistatin, as a likely cause of Mendelian forms of orofacial clefting in humans. *Hum Mutat.* 2019; 1–13

doi: 10.1002/humu.23793. PubMed PMID: 31215115

Dr. Andy Frank

James TD, Zwiefelhofer DJ, Frank CA. Maintenance of homeostatic plasticity at the *Drosophila* neuromuscular synapse requires continuous IP3-directed signaling. *Elife.* 2019;8. doi: 10.7554/eLife.39643. PubMed PMID: 31180325; PubMed Central

PMCID: PMC6557630.

Dr. Xiaoming Liu

Yu M, Guo Y, Zhang P, Xue J, Yang J, Cai Q, You X, Ma J, Yang D, Jia Y, Wang Y, Li F, Chi S, Cao M, Chen J, Liu X. Increased circulating Wnt5a protein in patients with rheumatoid arthritis-associated interstitial pneumonia (RA-ILD). *Immunobiology.* 2019. doi: 10.1016/j.imbio.2019.04.006. PubMed PMID: 31072629.

Dr. Charles Yeaman

Saez JJ, Diaz J, Ibanez J, Bozo JP, Cabrera Reyes F, Alamo M, Gobert FX, Obino D, Bono MR, Lennon-Dumenil AM, Yeaman C, Yuseff MI. The exocyst controls lysosome secretion and antigen extraction at the immune synapse of B cells. *J Cell Biol.* 2019;218(7):2247-64. doi: 10.1083/jcb.201811131. PubMed PMID: 31197029; PubMed Central PMCID: PMC6605794.

Dr. John Engelhardt

Shahin WS, Engelhardt JF. Isolation of Redox-Active Endosomes (Redoxosomes) and Assessment of NOX Activity. *Methods Mol Biol.* 2019; 1982:461-72.

doi: 10.1007/978-1-4939-9424-3_27. PubMed PMID: 31172489.

New Publications

Dr. Adam Dupuy

Feddersen CR, Wadsworth LS, Zhu EY, Vaughn HR, Voigt AP, Riordan JD, Dupuy AJ. A simplified transposon mutagenesis method to perform phenotypic forward genetic screens in cultured cells. BMC Genomics. 2019;20(1):497. doi: 10.1186/s12864-019-5888-6. PubMed PMID: 31208320; PubMed Central PMCID: PMC6580595.

Dr. Brad Amendt

Akkouch A, Eliason S, Sweat ME, Romero-Bustillos M, Zhu M, Qian F, Amendt BA, Hong L. Enhancement of MicroRNA-200c On Osteogenic Differentiation and Bone Regeneration by Targeting SOX2-mediated Wnt Signaling and KLF4. Hum Gene Ther. 2019. doi: 10.1089/hum.2019.019. PubMed PMID: 31288577.