

UCF Faculty AcCOMplishments

January – March, 2018

Publications

- Adams PP, **Jewett MW**. Selection of *Borrelia burgdorferi* Promoter Sequences Active During Mammalian Infection Using In Vivo Expression Technology. *Methods Mol Biol*. 2018;1690:137-154. doi: 10.1007/978-1-4939-7383-5_12 <https://www.ncbi.nlm.nih.gov/pubmed/29032543>
- Andreo-Vidal, A., Mamounis, K.J., Sehanobish, E., Avalos, D., Campillo-Brocal, J.C., Sanchez-Amat, A., Yukl, E.T., & **Davidson, V.L.** (2018) Structure and enzymatic properties of an unusual cysteine tryptophylquinone-dependent glycine oxidase from *Pseudoalteromonas luteoviolacea*. *Biochemistry*, 57, 1155-1165. doi: 10.1021/acs.biochem.8b00009. <https://www.ncbi.nlm.nih.gov/pubmed/29381339>
- Barkley L, **Taliaferro LA**, Baker K, Garcia J. The Holistic Athletic Healthcare Model: addressing the developmental, social, and cultural needs of collegiate athletes. *Journal of Higher Education Athletics & Innovation*, 2018; 1(3):26-47. <https://journals.shareok.org/index.php/jheai/article/download/960/929>
- Barrett R, **Narasimhulu CA**, **Parthasarathy S**. Adrenergic hormones induce extrapituitary prolactin gene expression in leukocytes-potential implications in obesity. *Sci Rep*. 2018 Jan 31;8(1):1936. doi: 10.1038/s41598-018-20378-1. <https://www.ncbi.nlm.nih.gov/pubmed/29386559>
- Cherubin P, Quiñones B, **Teter K**. Cellular recovery from exposure to sub-optimal concentrations of AB toxins that inhibit protein synthesis. *Sci Rep*. 2018 Feb 6;8(1):2494. doi: 10.1038/s41598-018-20861-9. <https://www.ncbi.nlm.nih.gov/pubmed/29410492>
- **Cole AL**, Schmidt-Owens M, Beavis AC, Chong CF, Tarwater PM, Schaus J, Deichen MG, **Cole AM**. Cessation from Smoking Improves Innate Host Defense and Clearance of Experimentally Inoculated Nasal *Staphylococcus aureus*. *Infect Immun*. 2018 Mar 22;86(4). pii: e00912-17. doi: 10.1128/IAI.00912-17. Print 2018 Apr. <https://www.ncbi.nlm.nih.gov/pubmed/29311241>
- Constant C, Bergano A, **Sugaya K**, Dogariu A. Guiding cellular activity with polarized light. *J Biophotonics*. 2018 Jan;11(1). doi: 10.1002/jbio.201600326. Epub 2017 Jul 3. <https://www.ncbi.nlm.nih.gov/pubmed/28671765>
- **Davidson, V.L.** (2018) Protein-derived cofactors revisited: Empowering amino acid residues with new functions. *Biochemistry*, Epub ahead of print Mar. 6. doi: 10.1021/acs.biochem.8b00123 <https://www.ncbi.nlm.nih.gov/pubmed/29498828>
- Ehrnhoefer DE*, **Southwell AL***, Sivasubramanian M, Qiu X, Villanueva EB, Xie Y, Walzl S, Anderson L, Fazeli A, Casal L, Felczak B, Tsang M, Hayden MR. (2018) HACE1 is essential for astrocyte mitochondrial function and influences Huntington disease phenotypes in vivo. *Hum Mol Genet*. 27(2):239-253. PMID: 29510748 <https://www.ncbi.nlm.nih.gov/pubmed/29121340> *Equal Contribution
- Ehrnhoefer DE, Martin DDO, Schmidt ME, Qiu X, Ladha S, Caron NS, Nguyen YTN, Vaid K, **Southwell AL**, Engemann S, Franciosi S, Hayden MR. (2018) Preventing mutant huntingtin proteolysis and intermittent fasting promote autophagy in models of Huntington disease. *Acta Neuropathol Commun*. 6(1):16. PMID: 29510748 <https://www.ncbi.nlm.nih.gov/pubmed/29510748>
- Fox CR, **Parks GD**. Parainfluenza Virus Infection Sensitizes Cancer Cells to DNA-Damaging Agents: Implications for Oncolytic Virus Therapy. *J Virol*. 2018 Mar 14;92(7). pii: e01948-17. doi: 10.1128/JVI.01948-17. <https://www.ncbi.nlm.nih.gov/pubmed/29343567>
- Gerard C, Morales J, **Castiglioni A**, Subhani N, **Asmar A**. Paraganglioma of the urinary bladder: a rare cause of hypertension and urinary tract infections. Special Review, *Am J Med Sci*. 2018 Feb;355(2):191-194. doi: 10.1016/j.amjms.2017.03.037. Epub 2017 Apr 8. <https://www.ncbi.nlm.nih.gov/pubmed/29406048>
- Gitto SB, Pandey V, Oyer JL, Copik AJ, Hogan FC, **Phanstiel O 4th**, **Altomare DA**. Difluoromethylornithine Combined with a Polyamine Transport Inhibitor Is Effective against Gemcitabine Resistant Pancreatic Cancer. *Mol Pharm*. 2018 Feb 5;15(2):369-376. doi: 10.1021/acs.molpharmaceut.7b00718. <https://www.ncbi.nlm.nih.gov/pubmed/29299930>

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Publications Continued

- Gupta R*, Rodrigues Felix C*, Akerman MP, Akerman KJ, Slabber CA, Wenjie Wang, Jessie Adams, Lindsey N. Shaw, Yuk-Ching Tse-Dinh, Munro OQ and **Rohde KH**. Bis(pyrrrolide-imine) gold(III) macrocycles and chelates: repurposed anticancer compounds become a novel class of antimicrobials targeting Mycobacterium tuberculosis and Mycobacterium abscessus. *Antimicrob Agents Chemotherapy*. 2018 Feb 26. pii: AAC.01696-17. <https://www.ncbi.nlm.nih.gov/pubmed/29483110>
- Li Q, Tseng KF, **King SJ**, Qiu W, Xu J. [A fluid membrane enhances the velocity of cargo transport by small teams of kinesin-1](#). *J Chem Phys*. 2018 Mar 28;148(12):123318. doi: 10.1063/1.5006806. <https://www.ncbi.nlm.nih.gov/pubmed/29604873>
- **Ma Z, Strickland KT, Cherne MD, Sehanobish E, Rohde KH, Self WT, Davidson VL**. The Rv2633c protein of Mycobacterium tuberculosis is a non-heme di-iron catalase with a possible role in defenses against oxidative stress. *J Biol Chem*. 2018 Feb 2; 293(5):1590-1595. <https://www.ncbi.nlm.nih.gov/pubmed/29242190>
- Nayar R, Goulart RA, **Davey DD**. Primary HPV cervical cancer screening in the United States: are we ready? *J Am Soc Cytopathol* 7:50-55, 2018 (Jan-Feb). <https://www.sciencedirect.com/science/article/pii/S2213294517304027>
- Nunez Lopez YO, Victoria B, Golusinski P, Golusinski W, **Masternak MM**. Characteristic miRNA expression signature and random forest survival analysis identify potential cancer-driving miRNAs in a broad range of head and neck squamous cell carcinoma subtypes. *Rep Pract Oncol Radiother*. 2018 Jan-Feb;23(1):6-20. doi: 10.1016/j.rpor.2017.10.003. Epub 2017 Nov 20. <https://www.ncbi.nlm.nih.gov/pubmed/29187807>
- Peoples, J.N.R., Maxmillian, T., Le, Q., Nadtchiy, S.M., Brookes, P.S., Porter, G.A., **Davidson, V.L. & Ebert, S.N.** (2018) Metabolomics reveals critical adrenergic regulatory checkpoints in glycolysis and pentose-phosphate pathways in embryonic heart. *Journal of Biological Chemistry*, Epub ahead of print Mar. 14. doi: 10.1074/jbc.RA118.002566 <https://www.ncbi.nlm.nih.gov/pubmed/29540484>
- Peoples JN, Taylor DG, Katchman AN, **Ebert SN**. Intact calcium signaling in adrenergic-deficient embryonic mouse hearts. *Biochem Biophys Res Commun*. 2018 Jan 22;495(4):2547-2552. doi: 10.1016/j.bbrc.2017.12.155. Epub 2017 Dec 27. <https://www.ncbi.nlm.nih.gov/pubmed/29288665>
- **Petrilli AM, Fernández-Valle C**. [Generation and Use of Merlin-Deficient Human Schwann Cells for a High-Throughput Chemical Genomics Screening Assay](#). *Methods Mol Biol*. 2018;1739:161-173. doi: 10.1007/978-1-4939-7649-2_11. <https://www.ncbi.nlm.nih.gov/pubmed/29546707>
- Qabaha K, Al-Rimawi F, Qasem A, **Naser SA**. Oleuropein Is Responsible for the Major Anti-Inflammatory Effects of Olive Leaf Extract. *J Med Food*. 2018 Mar;21(3):302-305. doi: 10.1089/jmf.2017.0070. Epub 2017 Nov 3. <https://www.ncbi.nlm.nih.gov/pubmed/29099642>
- Rohr M, **Narasimhulu CA**, Sharma D, Doomra M, Riad A, Naser S, **Parthasarathy S**. Inflammatory Diseases of the Gut. *J Med Food*. 2018 Feb;21(2):113-126. doi: 10.1089/jmf.2017.0138. Epub 2018 Feb 1. <https://www.ncbi.nlm.nih.gov/pubmed/29389238>
- Sabblah TT, Nandini S, Ledray AP, Pasos J, Calderon JLC, Love R, King LE, **King SJ**. A novel mouse model carrying a human cytoplasmic dynein mutation shows motor behavior deficits consistent with Charcot-Marie-Tooth type 2O disease. *Sci Rep*. 2018 Jan 29;8(1):1739. doi: 10.1038/s41598-018-20081-1. <https://www.ncbi.nlm.nih.gov/pubmed/29379136>
- Schneider A, Victoria B, Lopez YN, Suchorska W, Barczak W, Sobecka A, Golusinski W, **Masternak MM**, Golusinski P. Tissue and serum microRNA profile of oral squamous cell carcinoma patients. *Sci Rep*. 2018 Jan 12;8(1):675. doi: 10.1038/s41598-017-18945-z. <https://www.ncbi.nlm.nih.gov/pubmed/29330429>
- S. N. Sakib, G. Reddi, and **S. Almagro-Moreno**. Environmental role of pathogenic traits in Vibrio cholerae. *Journal of Bacteriology*. 2018 Mar 26. pii: JB.00795-17. doi: 10.1128/JB.00795-17. <https://www.ncbi.nlm.nih.gov/pubmed/29581410>

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Publications Continued

- Sharp RC, **Beg SA, Naser SA**. Role of PTPN2/22 polymorphisms in pathophysiology of Crohn's disease. *World J Gastroenterol*. 2018 Feb 14;24(6):657-670. doi: 10.3748/wjg.v24.i6.657. <https://www.ncbi.nlm.nih.gov/pubmed/29456405>
- Sharp RC, **Beg SA, Naser SA**. Polymorphisms in Protein Tyrosine Phosphatase Non-receptor Type 2 and 22 (PTPN2/22) Are Linked to Hyper-Proliferative T-Cells and Susceptibility to Mycobacteria in Rheumatoid Arthritis. *Front Cell Infect Microbiol*. 2018 Jan 25;8:11. doi: 10.3389/fcimb.2018.00011. eCollection 2018. <https://www.ncbi.nlm.nih.gov/pubmed/29423382>
- **Soulakova JN**, Crockett LJ. Level of Cigarette Consumption and Duration of Smoking Abstinence During Failed Quit Attempts Among Long-Term Daily Smokers: the Role of Race/Ethnicity and Cessation Aids. *J Racial Ethn Health Disparities*. 2018 Apr;5(2):293-303. doi: 10.1007/s40615-017-0370-0. Epub 2017 Apr 25. <https://www.ncbi.nlm.nih.gov/pubmed/28444627>
- Tabatabai ZL, Nayar R, Souers RJ, Crothers BA, **Davey DD**. Performance characteristics of body fluid cytology: Analysis of 344,380 responses from the College of American Pathologists Interlaboratory Comparison Program in Nongynecologic Cytopathology. *Arch Pathol Lab Med*. 2018;142:53-58. <https://www.ncbi.nlm.nih.gov/pubmed/29048220>
- Thibeaux S, Siddiqi S, Zhelyabovska O, Moinuddin F, **Masternak MM, Siddiqi SA**. Cathepsin B regulates hepatic lipid metabolism by cleaving liver fatty acid-binding protein. *J Biol Chem*. 2018 Feb 9;293(6):1910-1923. doi: 10.1074/jbc.M117.778365. <https://www.ncbi.nlm.nih.gov/pubmed/29259130>
- **Zayat V, Davey DD**. Team Based Learning is Effective in Teaching Appropriate Utilization of Hemostasis Laboratory Tests using Storyline Case Authoring Software. *MedEd PORTAL (Association of American Medical Colleges)*. 2018;14:10704. https://doi.org/10.15766/mep_2374-8265.10704

Presentations

- Dr. Salvador Almagro-Moreno
 - “Characterization and transmission dynamics of virulence adaptive polymorphisms in *Vibrio cholera*”. US-Japan Cholera and Enteric Diseases Meeting, Hat Yai, Thailand, February 2018.
- Dr. Abdo Asmar
 - “Do You Want to Teach? We’ve Got Content: How to Find and Use Existing Educational Resources to Enhance Your Teaching Skills”, A. Asmar, J. Catania, A. Carilli, AAIM Academic Internal Medicine Week, San Antonio, TX, March 18-21, 2018.
- Dr. Analia Castiglioni
 - “Do You Want to Teach? We’ve Got Content: How to Find and Use Existing Educational Resources to Enhance Your Teaching Skills”, A. Asmar, J. Catania, A. Carilli, AAIM Academic Internal Medicine Week, San Antonio, TX, March 18-21, 2018.
- Dr. Jelena Catania
 - “Do You Want to Teach? We’ve Got Content: How to Find and Use Existing Educational Resources to Enhance Your Teaching Skills”, A. Asmar, J. Catania, A. Carilli, AAIM Academic Internal Medicine Week, San Antonio, TX, March 18-21, 2018.

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Presentations Continued

- Dr. Martin Klapheke
 - “Psychiatry Clinical Simulation Initiative (CSI) Modules for Medical Education: An Update.” Oral Presentation, 15th Asia Pacific Medical Education Conference, Singapore, Singapore, January 12, 2018.
 - “Teaching Opioid Risk Mitigation Strategies and the Steps of Opioid Overdose Resuscitation.” E-Poster, M. Klapheke and M. Pasarica, 15th Asia Pacific Medical Education Conference, Singapore, Singapore, January 13, 2018.
 - Moderator, UCF COM Psychiatry Faculty Journal Club, Adolescence and Substance Abuse. UCF College of Medicine, Orlando, FL, January 26, 2018.
- Dr. Mohtashem Samsam
 - “A Clinically Oriented Approach to Anatomy Instruction in Biomedical Engineering Education Utilizing Cadavers – a Collaborative Approach.” Topping, DB, Kassab, AJ, Mohtashem S. Poster Presentation. Experimental Biology Annual Meeting, San Diego, CA. April 21-24, 2018.
- Dr. Julia Soulakova
 - “Big Data in Medicine: Research on Tobacco Use in the United States”, Distinguished Speaker, UCF Big Data Series on Healthcare, Orlando, FL, March 2018
 - “Analysis of National Surveys Using SAS in the Era of Big Data”, Ha, T. & Soulakova, J.N., Poster Presentation, UCF Big Data Series on Healthcare, Orlando, FL, March 2018
 - “Mediation Analysis of Big Data: Detecting Effect of a Mediator”, Pham, T., Mai, Y., & Soulakova, J. N, Poster Presentation, UCF Big Data Series on Healthcare, Orlando, FL, March 2018
 - “Smoking Policy and Support for Smoking Cessation Offered at Work: Recent Trends in the United States”, Soulakova, J. N., & Mai, Y, Poster presentation, 2018 Annual Meeting of the Society for Research on Nicotine & Tobacco, Baltimore, Maryland, February 2018
 - “Parental race/ethnicity and prevalence of smoke-free homes in single-parent households; analyses of 2010-11 and 2014-15 Tobacco Use Supplement”, Leonardo, S., Mai, Y., Ha, T., & Soulakova, J. N, Poster Presentation, 2018 International Conference on Health Policy Statistics, Charleston, SC, January 2018.
 - “Do Parents Who Smoke Protect Their Children From Secondhand Smoke At Home?” Leonardo, S., Mai, Y., & Soulakova, J. N, Poster Presentation, 2018 Florida Undergraduate Research Conference at Eastern Florida State College, Melbourne, FL, February 2018.
 - “Heavy Smokers Purchasing Cigarettes from Indian Reservations”, Pack, R., Ha, T. & Soulakova, J.N, Poster Presentation, 2018 UCF Graduate Research Forum, Orlando, FL, April 2018
 - “Sociodemographic Factors Associated with Ever-Use of Hookah Among Young Adults in the U.S”, ., Owens, V., Pham, T., Mai, Y., & Soulakova, J. N, Poster Presentation, 2018 Florida Undergraduate Research Conference at Eastern Florida State College, Melbourne, FL, February 2018
- Dr. Lindsay Taliaferro
 - “Factors associated with emotional distress and suicidality among international college students.” Taliaferro L, Muehlenkamp J, Jeevanba S. Society for Adolescent Health and Medicine Annual Meeting. Seattle, Washington, March 2018.

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January – March, 2018

Presentations Continued

- Dr. Daniel Topping
 - “A Clinically Oriented Approach to Anatomy Instruction in Biomedical Engineering Education Utilizing Cadavers – a Collaborative Approach.” Topping, DB, Kassab, AJ, Mohtashem S. Poster Presentation. Experimental Biology Annual Meeting, San Diego, CA. April 21-24, 2018.
- Dr. Marcy Verduin
 - “Flip not Flop: How to Make Flipped Classrooms Manageable for Your Residents”. Workshop, American Association of Directors of Psychiatric Residency Training Annual Meeting, New Orleans, LA, March 2, 2018.

Awards, Recognition and Service

- Dr. Elizabeth Arnold
 - Received a \$99,461 grant from Orange County Government for *Evaluation of the Orange County Youth Mental Health Project*. Dr. Chris Stewart (PI) and Dr. Elizabeth Arnold (co-PI)
- Dr. Abdo Asmar
 - Invited to serve on the USMLE Step 1 interdisciplinary Review Committee
- Dr. Paul Banerjee
 - Awarded the 2017 EMS Innovator Award
- Dr. Analia Castiglioni
 - Named Assistant Dean of Clinical Skills and Simulation in the College of Medicine
- Dr. Juan Cendan
 - Salam Daher, a graduate student in the Modeling and Simulation doctoral program has won the prestigious Hewlett-Packard NCWIT Collegiate Award for her work on the virtual human platform, work that is sponsored by an NSF grant under professors Welch (IST/CON), Gonzalez (CON) and Cendan (COM).
- Dr. Debopam Chakrabarti
 - Received the College of Medicine Excellence in Research Award
- Dr. Jack Cheng
 - Received an NIH R15 award entitled: *Chronic Intermittent Hypoxia: Sympathetic and Intrinsic Cardiac ganglia*
Received a grant from UCLA for his work on: *Comprehensive Structural and Functional Mapping of the Mammalian Cardiac Nervous System*
- Dr. Cristina Fernandez-Valle
 - Awarded a \$200,000 grant from the Live Like Bella Pediatric Cancer Research Initiative for *Synergistic FAK and PI3K combinatorial targeting for NF2 Schwannomas*
- Dr. Martin Klapheke
 - The Award for Creativity in Psychiatric Education was presented to the ADMSEP Clinical Simulation Initiative, from The American College of Psychiatrists, presented at the Annual Meeting of the American College of Psychiatrists, February 2018, Tampa FL.
 - Merit Award for E-Poster Presentation, “Teaching Opioid Risk Mitigation Strategies and the Steps of Opioid Overdose Resuscitation”, M. Klapheke and M. Pasarica. 1-13-18, 15th Asia Pacific Medical Education Conference, Singapore, Singapore.

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Awards, Recognition and Service Continued

- Dr. Jeff LaRochelle
 - Awarded a Stemmler Grant based upon a multi-institutional study (USUHS, Georgetown, and UCF) looking at the impact of a self-regulated learning micro-analytic intervention on NBME Subject exam scores and USMLE Step 2 scores.
 - Named as one of the two Deputy Editors for the JGIM special edition on Medical Education.
- Dr. Magdalena Pasarica
 - Received the College of Medicine Excellence in Graduate Teaching Award
 - Received the University of Central Florida Excellence in Graduate Teaching Award
 - Merit Award for E-Poster Presentation, “Teaching Opioid Risk Mitigation Strategies and the Steps of Opioid Overdose Resuscitation”, M. Klapheke and M. Pasarica. 1-13-18, 15th Asia Pacific Medical Education Conference, Singapore, Singapore.
- Dr. Otto Phanstiel
 - Received a grant from the Snyder Robinson Foundation for his work in: *Development of Spermine Prodrugs*
 - Received a U.S. Patent for *Polyamine Transport Selective Therapeutic Agents with Enhanced Stability*
- Dr. Kyle Rohde
 - Awarded the UCF Reach for the Stars Award
 - Received a grant from the Cystic Fibrosis Foundation for *Understanding WhiB7-mediated Multidrug Resistance in M. abscessus*
- Dr. Mohtashem Samsam
 - Received the College of Medicine Excellence in Undergraduate Teaching Award
- Dr. Dinender Singla
 - Received a grant for his work on: *Amelioration of Doxorubicin Induced Muscle Dysfunction with Embryonic stem cells-Derived Exosomes*
- Dr. Julia Soulakova
 - Was awarded the Faculty Mentor Supply Award granted by UCF’s T-LEARN Program
- Dr. Lindsay Taliaferro
 - Received a \$27,000 grant from the College of Medicine, Internal Research Awards for “*Training to Address Non-Suicidal Self-Injury Among Adolescents Using a Virtual-Reality Simulation with Patient Avatars: Intervention Development and Pilot Study.*” Principal Investigator. Funding period: Jan. 7, 2018 - Dec. 31, 2018. (\$27,000).
- Dr. Ken Teter
 - Awarded a 5 year NIH R01 for his work on *Disaggregase Mechanism of Holotoxin Disassembly by Protein Disulfide*
 - Awarded a grant from the Florida Department of Health for his work on *Protein Disulfide Isomerase Uses Conditional Disorder as a Disaggregase Mechanism to Detoxify Amyloid Beta Fibrils*
- Dr. Daniel Topping
 - Elected Medical Education/Clinical Sciences/InternM Faculty Representative to the Faculty Senate
- Dr. Marcy Verduin
 - Appointed to serve as the AAMC Group on Student Affairs representative to the NBME Advisory Committee for Medical School Programs