

UCF Faculty AcCOMplishments

September – December 2014

Publications

- ❖ Aluganti Narasimhulu C, Selvarajan K, Brown M, **Parthasarathy S**. [Cationic peptides neutralize Ox-LDL, prevent its uptake by macrophages, and attenuate inflammatory response](#). *Atherosclerosis*. 2014 Sep;236(1):133-41. doi: 10.1016/j.atherosclerosis.2014.06.020. Epub 2014 Jul 1.
- ❖ **Ambivero CT**, Cilenti L, Main S, **Zervos AS**. [Mulan E3 ubiquitin ligase interacts with multiple E2 conjugating enzymes and participates in mitophagy by recruiting GABARAP](#). *Cell Signal*. 2014 Dec;26(12):2921-9. doi: 10.1016/j.cellsig.2014.09.004. Epub 2014 Sep 16.
- ❖ Banerjee T, Taylor M, Jobling MG, Burrell H, Yang Z, Serrano A, Holmes RK, Tatulian SA, **Teter K**. [ADP-ribosylation factor 6 acts as an allosteric activator for the folded but not disordered cholera toxin A1 polypeptide](#). *Mol Microbiol*. 2014 Sep 26. doi: 10.1111/mmi.12807. [Epub ahead of print]
- ❖ **Chen LM**, Chang M, Dai Y, **Chai KX**, Dyrskjot L, Sanchez-Carbayo M, Szarvas T, Zwarthoff EC, Lokeshwar V, Jeronimo C, Parker AS, Ross S, Borre M, Orntoft TF, Jaeger T, Beukers W, Lopez LE, Henrique R, Young PR, Urquidi V, Goodison S, Rosser CJ. [External validation of a multiplex urinary protein panel for the detection of bladder cancer in a multicenter cohort](#). *Cancer Epidemiol Biomarkers Prev*. 2014 Sep;23(9):1804-12. doi: 10.1158/1055-9965.EPI-14-0029. Epub 2014 Jun.
- ❖ Cusecela D. ["Welcome to the Machine"](#) *Int J Radiation Oncol Biol Phys*, Vol. 88, No. 3, pp. 552, 2014
- ❖ Daniel J, Sirakova T, **Kolattukudy P**. [An Acyl-CoA Synthetase in Mycobacterium tuberculosis Involved in Triacylglycerol Accumulation during Dormancy](#). *PLoS One*. 2014 Dec 9;9(12):e114877. doi: 10.1371/journal.pone.0114877. eCollection 2014.
- ❖ Dowding JM, Song W, Bossy K, Karakoti A, Kumar A, Kim A, Bossy B, Seal S, Ellisman MH, Perkins G, Self WT, **Bossy-Wetzel E**. [Cerium oxide nanoparticles protect against Aβ-induced mitochondrial fragmentation and neuronal cell death](#). *Cell Death Differ*. 2014 Oct;21(10):1622-32. doi: 10.1038/cdd.2014.72. Epub 2014 Jun 6.
- ❖ Franco MC, **Estévez AG**. [Tyrosine nitration as mediator of cell death](#). *Cell Mol Life Sci*. 2014 Oct;71(20):3939-50. doi: 10.1007/s00018-014-1662-8. Epub 2014 Jun 20.
- ❖ Koyama FC, Azevedo MF, Budu A, **Chakrabarti D**, Garcia CR. [Melatonin-Induced Temporal Up-Regulation of Gene Expression Related to Ubiquitin/Proteasome System \(UPS\) in the Human Malaria Parasite Plasmodium falciparum](#). *Int J Mol Sci*. 2014 Dec 3;15(12):22320-30. doi: 10.3390/ijms15122320.
- ❖ Li T, Lu H, Shen C, Lahiri SK, Wason MS, Mukherjee D, Yu L, **Zhao J**. [Identification of epithelial stromal interaction 1 as a novel effector downstream of Krüppel-like factor 8 in breast cancer invasion and metastasis](#). *Oncogene*. 2014 Sep 25;33(39):4746-55. doi: 10.1038/nc.2013.415. Epub 2013 Oct 7.
- ❖ Moreira-Rodrigues M, Graça AL, Ferreira M, Afonso J, Serrão P, Morato M, Ferreirinha F, Correia-de-Sá P, **Ebert SN**, Moura D. [Attenuated aortic vasodilation and sympathetic prejunctional facilitation in epinephrine-deficient mice: selective impairment of β2-adrenoceptor responses](#). *J Pharmacol Exp Ther*. 2014 Nov;351(2):243-9. doi: 10.1124/jpet.114.217281. Epub 2014 Aug 26.
- ❖ **Pasarica M**, Smith S – Drugs for Weight Loss and Maintenance: Present and Future. In ["Treatment of the Obese Patient, 2nd Edition"](#). Eds. Kushner and Bessessen, Springer Publishing. 2014, pp. 225-246.
- ❖ Singla RD, Wang J, **Singla DK**. [Regulation of Notch 1 signaling in THP-1 cells enhances M2 macrophage differentiation](#). *Am J Physiol Heart Circ Physiol*. 2014 Dec 1;307(11):H1634-42. doi: 10.1152/ajpheart.00896.2013. Epub 2014 Sep 26.
- ❖ Urbina P, **Singla DK**. [BMP-7 attenuates adverse cardiac remodeling mediated through M2 macrophages in prediabetic cardiomyopathy](#). *Am J Physiol Heart Circ Physiol*. 2014 Sep 1;307(5):H762-72. doi: 10.1152/ajpheart.00367.2014. Epub 2014 Jul 3.
- ❖ Wiesenborn DS, Ayala JE, King E, **Masternak MM**. [Insulin sensitivity in long-living Ames dwarf mice](#). *Age (Dordr)*. 2014 Oct;36(5):9709. doi: 10.1007/s11357-014-9709-1. Epub 2014 Aug 29.
- ❖ Wiesenborn DS, Menon V, Zhi X, Do A, Gesing A, Wang Z, Bartke A, **Altomare DA**, **Masternak MM**. [The effect of calorie restriction on insulin signaling in skeletal muscle and adipose tissue of Ames dwarf mice](#). *Aging (Albany NY)*. 2014 Oct;6(10):900-12.
- ❖ Younce CW, Niu J, Ayala J, Burmeister MA, Smith LH, **Kolattukudy P**, Ayala JE. [Exendin-4 improves cardiac function in mice overexpressing monocyte chemoattractant protein-1 in cardiomyocytes](#). *J Mol Cell Cardiol*. 2014 Sep 6;76C:172-176. doi: 10.1016/j.yjmcc.2014.08.022. [Epub ahead of print]

UCF Faculty AcCOMplishments continued...

September – December 2014

Presentations

Fernandez-Valle, C. "NF2 drug screening." NF Conference, Carcelona, Spain, September, 2014.

Jeremiah L. Oyer, Veethika Pandey, Dominic A. Colosimo, Robert Y. Igarashi, Melhem Solh, Ahmed Zakari, Dean A. Lee, **Deborah A. Altomare** and **Alicja J. Copik**. (Poster Presentation) "*In Vitro* Preactivation of PBMCs with PM-mb21-41BBL Particles Stimulates *In Vivo* Expansion of NK Cells Under Low IL-2 in NSG Mice." 56th American Society for Hematology (ASH) Annual Meeting, San Francisco, California, December 2014.

Jeremiah L. Oyer, Veethika Pandey, Rania Bassiouni, Robert Y. Igarashi, **Annette Khaled**, **Ahmed Zakari**, Melhem Solh, **Deborah A. Altomare** and **Alicja J. Copik**. (Poster Presentation) "Natural killer cells expanded with PM21 particles are cytotoxic toward tumor cells." American Association for Cancer Research (AACR) Special Conference: Tumor Immunology and Immunotherapy: A New Chapter, Orlando, Florida, December 2014.

Khaled, A. (Poster Presentation) "Use of a Cytotoxic Peptide that Induces Immunogenic Cell Death to Engage Innate Immunity in the Treatment of Metastatic Breast Cancer." American Association for Cancer Research: Tumor Immunology and Immunotherapy, Orlando, Florida, December 2014.

Masternak, M. "Molecular biology in diagnostics of surgical margins research." 46th Congress of Polish Otorhinolaryngological, Head and Neck Surgery Society, Poland, September 2014.

Masternak, M. (Poster Presentation). "Genetic Biomarkers in Head and Neck Squamous Cell Carcinoma." American Academic of Otolaryngology, Orlando, Florida, September 2014.

Pandey, V., Oyer, J. L., Igarashi, R. Y., Ingersoll, S.B., **Copik, A. J.**, **Altomare, D. A.** (Poster Presentation) "Anti-tumor effect of Natural Killer cells in human PBMCs against ovarian cancer." AACR Special Conference: Tumor Immunology and Immunotherapy: A New Chapter, Orlando, Florida, December 2014.

Phanstiel, O. and **Altomare, D.** et al. "Development of polyamine transport inhibitors and their use in treating pancreatic cancers." Third International Conference on Polyamines: Biochemical, Physiological and Clinical Perspectives, Ubatuba-SP, Brazil, September 2014.

Singla, D. "Activation and Involvement of Inflammatory Macrophages." 2nd Cardiovascular Forum for Promoting Centers of Excellent and Young Investigators, Winnipeg, California, September 2014.

Singla, D. "Transplanted Stem Cells in the Diseased Heart Induces Cardiac Regeneration and Improved Function." World Congress of Pediatrics, Taiyuan, China, September 2014.

Verduin, M. (Workshops). "Career Development 101: Strategies for Success in Finding and Working with Mentors," "The Candidate Interview: Obtaining an Accurate Narrative in the Selection Process," "Wowing with Words: Putting Together Powerful Promotion Portfolios," Association for Academic Psychiatry, Portland, Oregon, September 2014.

Awards and Service

Dr. Khaled

- Awarded a grant, R01 – Polymeric nanoparticles with imaging capability for therapeutic peptide delivery, September 2014 – May 2018, total \$1,377,068.

Dr. Kolattukudy

- Awarded a grant from Novartis Pharma AG for Testing compounds on human granuloma model, October 2014 – April 2015, total \$81,998.

Dr. Li

- Awarded a grant as a co-investigator with Standford-Burnham, R01 – Sterol Regulatory Element Binding Proteins in Regulation of Lipid Metabolism, July 2014 – June 2015, total \$61,432. (Notified September)

Dr. Masternak

- Honored as a new Fellow Member at the 66th Annual Gerontological Society of America meeting.

Dr. Self

- Awarded a grant from Summit Limited Company for Determining the Mechanism of Action of SMT- 19929, November 2014 – May 2015, total \$70,000.

Dr. Singla

- Elected as a member of the International Academy of Cardiovascular Sciences, one of only 250 Fellows in the Academy.

Dr. Teter

- Awarded a grant from the USDA for Characterization of Pathogenic Mechanisms Associated with Shiga Toxin 2 Subtypes Produced by Escherichia coli Strains, September 2014 – 2018, total \$93,440.

Dr. Verduin

- Chair of the Association for Academic Psychiatry Annual Meeting Planning Committee for the 2015 meeting.