

## **2012 Student Publications-Rutgers SGS-Newark**

Alvarez TL, **Kim** EH, Vicci VR, Dhar SK, Biswal BB, Barrett AM. Concurrent vision dysfunctions in convergence insufficiency with traumatic brain injury. *Optom Vis Sci*. 2012 Dec;89(12):1740-51. [PubMed](#)

Bagce HF, **Saleh** S, Adamovich SV, Tunik E. Visuomotor gain distortion alters online motor performance and enhances primary motor cortex excitability in patients with stroke. *Neuromodulation*. 2012 Jul;15(4):361-6. [PubMed](#)

Batish M, van den Bogaard P, Kramer FR, Tyagi S. Neuronal mRNAs travel singly into dendrites. *Proc Natl Acad Sci U S A*. 2012 Mar 20;109(12):4645-50. [PubMed](#)

Bernstein SH, Venkatesh S, Li M, **Lee** J, Lu B, Hilchey SP, Morse KM, Metcalfe HM, Skalska J, Andreeff M, Brookes PS, Suzuki CK. The mitochondrial ATP-dependent Lon protease: a novel target in lymphoma death mediated by the synthetic triterpenoid CDDO and its derivatives. *Blood*. 2012 Apr 5;119(14):3321-9. [PubMed](#)

Chen L, **Chavda** KD, Mediavilla JR, Jacobs MR, Levi MH, Bonomo RA, Kreiswirth BN. Partial excision of blaKPC from Tn4401 in carbapenem-resistant *Klebsiella pneumoniae*. *Antimicrob Agents Chemother*. 2012 Mar;56(3):1635-8. [PubMed](#)

Chen L, **Chavda** KD, Mediavilla JR, Zhao Y, Fraimow HS, Jenkins SG, Levi MH, Hong T, Rojzman AD, Ginocchio CC, Bonomo RA, Kreiswirth BN. Multiplex real-time PCR for detection of an epidemic KPC-producing *Klebsiella pneumoniae* ST258 clone. *Antimicrob Agents Chemother*. 2012 Jun;56(6):3444-7. [PubMed](#)

**Chen-Deutsch** X, Kutner A, Harrison JS, Studzinski GP. The pan-caspase inhibitor Q-VD-OPh has anti-leukemia effects and can interact with vitamin D analogs to increase HPK1 signaling in AML cells. *Leuk Res*. 2012 Jul;36(7):884-8. [PubMed](#)

**Chen-Deutsch** X, Studzinski GP. Dual role of hematopoietic progenitor kinase 1 (HPK1) as a positive regulator of  $1\alpha,25$ -dihydroxyvitamin D-induced differentiation and cell cycle arrest of AML cells and as a mediator of vitamin D resistance. *Cell Cycle*. 2012 Apr 1;11(7):1364-73. [PubMed](#)

Chitravanshi VC, **Proddutur** A, Sapru HN. Cardiovascular actions of angiotensin-(1-12) in the hypothalamic paraventricular nucleus of the rat are mediated via angiotensin II. *Exp Physiol*. 2012 Sep;97(9):1001-17. [PubMed](#)

Christakos S, **Ajibade** DV, Dhawan P, Fechner AJ, **Mady** LJ. Vitamin D: metabolism. *Rheum Dis Clin North Am*. 2012 Feb;38(1):1-11, vii. [PubMed](#)

Crassous PA, Couloubaly S, **Huang** C, Zhou Z, Baskaran P, Kim DD, Papapetropoulos A, Fioramonti X, Duran WN, Beuve A. Soluble guanylyl cyclase is a target of angiotensin II-induced nitrosative stress in a hypertensive rat model. *Am J Physiol Heart Circ Physiol*. 2012 Sep 1;303(5):H597-604. [PubMed](#)

**Darmon** SK, Lutz CS. Novel upstream and downstream sequence elements contribute to polyadenylation efficiency. *RNA Biol*. 2012 Oct;9(10):1255-65. [PubMed](#)

Das A, **Morales** R, **Banday** M, **Garcia** S, Hao L, Cross GA, Estevez AM, Bellofatto V. The essential polysome-associated RNA-binding protein RBP42 targets mRNAs involved in Trypanosoma brucei energy metabolism. *RNA*. 2012 Nov;18(11):1968-83. [PubMed](#)

**DiFranco** KM, Gupta A, Galusha LE, Perez J, Nguyen TV, Fineza CD, Kachlany SC. Leukotoxin (Leukothera®) targets active leukocyte function antigen-1 (LFA-1) protein and triggers a lysosomal mediated cell death pathway. *J Biol Chem*. 2012 May 18;287(21):17618-27. [PubMed](#)

**Duggal** J, Harrison JS, Studzinski GP, **Wang** X. Involvement of microRNA181a in differentiation and cell cycle arrest induced by a plant-derived antioxidant carnosic acid and vitamin D analog doxercalciferol in human leukemia cells. *Microna*. 2012;1(1):26-33. [PubMed](#)

**Dulal** K, Silver B, Zhu H. Use of recombination-mediated genetic engineering for construction of rescue human cytomegalovirus bacterial artificial chromosome clones. *J Biomed Biotechnol*. 2012;2012:357147. [PubMed](#)

**Fakira** AK, Gaspers LD, Thomas AP, Li H, Jain MR, Elkabes S. Purkinje cell dysfunction and delayed death in plasma membrane calcium ATPase 2-heterozygous mice. *Mol Cell Neurosci*. 2012 Aug;51(1-2):22-31. [PubMed](#)

Fluet GG, Merians AS, **Qiu** Q, **Lafond** I, **Saleh** S, Ruano V, Delmonico AR, Adamovich SV. Robots integrated with virtual reality simulations for customized motor training in a person with upper extremity hemiparesis: a case study. *J Neurol Phys Ther*. 2012 Jun;36(2):79-86. [PubMed](#)

**Garcia** CC, Potian JG, Hognason K, Thyagarajan B, Sultatos LG, Souayah N, Routh VH, McArdle JJ. Acetylcholinesterase deficiency contributes to neuromuscular junction dysfunction in type 1 diabetic neuropathy. *Am J Physiol Endocrinol Metab*. 2012 Aug 15;303(4):E551-61. [PubMed](#)

Grigoryan S, Kinchington PR, Yang IH, **Selariu** A, Zhu H, Yee M, Goldstein RS. Retrograde axonal transport of VZV: kinetic studies in hESC-derived neurons. *J Neurovirol*. 2012 Dec;18(6):462-70. [PubMed](#)

**Guito** J, Lukac DM. KSHV Rta Promoter Specification and Viral Reactivation. *Front Microbiol*. 2012 Feb 14;3:30. [PubMed](#)

Haenni S, **Ji Z**, Hoque M, Rust N, Sharpe H, Eberhard R, Browne C, Hengartner MO, Mellor J, Tian B, Furger A. Analysis of C. elegans intestinal gene expression and polyadenylation by fluorescence-activated nuclei sorting and 3'-end-seq. *Nucleic Acids Res*. 2012 Jul;40(13):6304-18. [PubMed](#)

Henriques T, **Ji Z**, Tan-Wong SM, Carmo AM, Tian B, Proudfoot NJ, Moreira A. Transcription termination between polo and snap, two closely spaced tandem genes of D. melanogaster. *Transcription*. 2012 Jul-Aug;3(4):198-212. [PubMed](#)

**Holloway** JL, **Trivedi** P, Myers CE, Servatius RJ. Enhanced conditioned eyeblink response acquisition and proactive interference in anxiety vulnerable individuals. *Front Behav Neurosci*. 2012 Nov 16;6:76. [PubMed](#)

Jankowski W, Saleh T, Pai MT, **Sriram** G, Birge RB, Kalodimos CG. Domain organization differences explain Bcr-Abl's preference for CrkL over CrkII. *Nat Chem Biol*. 2012 May 13;8(6):590-6. [PubMed](#)

**Kim** EH, Alvarez TL. The changes in phoria and convergence to divergence peak velocity ratio are correlated. *Curr Eye Res*. 2012 Nov;37(11):1054-65. [PubMed](#)

**Kim** EH, Alvarez TL. The frequency of horizontal saccades in near and far symmetrical disparity vergence. *Vision Res*. 2012 Jun 15;63:9-19. [PubMed](#)

Lee JE, **Lee** JY, Tremblay J, Wilusz J, Tian B, Wilusz CJ. The PARN deadenylase targets a discrete set of mRNAs for decay and regulates cell motility in mouse myoblasts. *PLoS Genet*. 2012;8(8):e1002901. [PubMed](#)

Li W, Laishram RS, **Ji Z**, Barlow CA, Tian B, Anderson RA. Star-PAP control of BIK expression and apoptosis is regulated by nuclear PIPK1 $\alpha$  and PKC $\delta$  signaling. *Mol Cell*. 2012 Jan 13;45(1):25-37. [PubMed](#)

**Li W**, Yeh HJ, Shankarling GS, **Ji Z**, Tian B, MacDonald CC. The  $\beta$ -CstF-64 polyadenylation protein controls genome expression in testis. *PLoS One*. 2012;7(10):e48373. [PubMed](#)

Liu W, Das A, **Morales** R, **Banday** M, Aris V, Lukac DM, Soteropoulos P, Wah DA, Palenchar J, Bellofatto V. Chromatin immunoprecipitation and microarray analysis reveal that TFIIIB occupies the SL RNA gene promoter region in *Trypanosoma brucei* chromosomes. *Mol Biochem Parasitol*. 2012 Dec;186(2):139-42. [PubMed](#)

Malik M, **Chavda** K, Zhao X, Shah N, Hussain S, Kurepina N, Kreiswirth BN, Kerns RJ, Drica K. Induction of mycobacterial resistance to quinolone class antimicrobials. *Antimicrob Agents Chemother*. 2012 Jul;56(7):3879-87. [PubMed](#)

Neff AT, **Lee** JY, Wilusz J, Tian B, Wilusz CJ. Global analysis reveals multiple pathways for unique regulation of mRNA decay in induced pluripotent stem cells. *Genome Res*. 2012 Aug;22(8):1457-67. [PubMed](#)

Oka S, Zhai P, Alcendor R, **Park** JY, Tian B, Sadoshima J. Suppression of ERR targets by a PPAR $\alpha$ /Sirt1 complex in the failing heart. *Cell Cycle*. 2012 Mar 1;11(5):856-64. [PubMed](#)

**Ordek** G, **Groth** JD, Sahin M. Effect of anesthesia on spontaneous activity and evoked potentials of the cerebellar cortex. *Conf Proc IEEE Eng Med Biol Soc*. 2012;2012:835-8. [PubMed](#)

**Paglia** DN, Wey A, Park AG, Breitbart EA, Mehta SK, Bogden JD, Kemp FW, Benevenia J, O'Connor JP, Lin SS. The effects of local vanadium treatment on angiogenesis and chondrogenesis during fracture healing. *J Orthop Res*. 2012 Dec;30(12):1971-8. [PubMed](#)

**Panchal** D, Govindasamy K, Rana A, Bhanot P. Improved Plasmodium berghei lines for conditional mutagenesis. *Mol Biochem Parasitol*. 2012 Jul;184(1):52-4. [PubMed](#)

Pilkar RB, **Yarossi** M, Forrest G. Empirical mode decomposition as a tool to remove the function electrical stimulation artifact from surface electromyograms: preliminary investigation. *Conf Proc IEEE Eng Med Biol Soc*. 2012;2012:1847-50. [PubMed](#)

**Rohafza** M, Fluet GG, **Qiu** Q, Adamovich S. Correlations between statistical models of robotically collected kinematics and clinical measures of upper extremity function. *Conf Proc IEEE Eng Med Biol Soc*. 2012;2012:4120-3. [PubMed](#)

**Saleh** S, Adamovich SV, Tunik E. Resting state functional connectivity and task-related effective connectivity changes after upper extremity rehabilitation: a pilot study. *Conf Proc IEEE Eng Med Biol Soc*. 2012;2012:4559-62. [PubMed](#)

**Selariu** A, Cheng T, Tang Q, Silver B, Yang L, Liu C, Ye X, Markus A, Goldstein RS, Cruz-Cosme RS, Lin Y, Wen L, Qian H, Han J, **Dulal** K, Huang Y, Li Y, Xia N, Zhu H. ORF7 of varicella-zoster virus is a neurotropic factor. *J Virol*. 2012 Aug;86(16):8614-24. [PubMed](#)

**Shah** PP, Gonzalez KO, Barrett AM. Line copying: distinct where and aiming spatial bias in healthy adults. *Cogn Behav Neurol*. 2012 Jun;25(2):77-84. [PubMed](#)

Shanks RM, Dashiff A, **Alster** JS, Kadouri DE. Isolation and identification of a bacteriocin with antibacterial and antibiofilm activity from *Citrobacter freundii*. *Arch Microbiol*. 2012 Jul;194(7):575-87. [PubMed](#)

Shrirao AB, **Hussain** A, Cho CH, Perez-Castillejos R. Adhesive-tape soft lithography for patterning mammalian cells: application to wound-healing assays. *Biotechniques*. 2012 Sep 13;53(5):315-18. [PubMed](#)

**Sriram** G, Birge RB. Commentary: The carboxyl-terminal Crk SH3 domain: Regulatory strategies and new perspectives. *FEBS Lett*. 2012 Aug 14;586(17):2615-8. [PubMed](#)

**Stone** RC, Feng D, Deng J, **Singh** S, Yang L, Fitzgerald-Bocarsly P, Eloranta ML, Ronnblom L, Barnes BJ. Interferon regulatory factor 5 activation in monocytes of systemic lupus erythematosus patients is triggered by circulating autoantigens independent of type I interferons. *Arthritis Rheum*. 2012 Mar;64(3):788-98. [PubMed](#)

Venkatesh S, **Lee** J, Singh K, Lee I, Suzuki CK. Multitasking in the mitochondrion by the ATP-dependent Lon protease. *Biochim Biophys Acta*. 2012 Jan;1823(1):56-66. [PubMed](#)

Wirpsza L, Pillai S, **Batish** M, Marras S, Krasnoperov L, Mustaev A. Highly bright avidin-based affinity probes carrying multiple lanthanide chelates. *J Photochem Photobiol B*. 2012 Nov 5;116:22-9. [PubMed](#)

Xie LH, Shanmugam M, **Park** JY, Zhao Z, Wen H, Tian B, Periasamy M, Babu GJ. Ablation of sarcolipin results in atrial remodeling. *Am J Physiol Cell Physiol*. 2012 Jun 15;302(12):C1762-71. [PubMed](#)

Yan L, **Park** JY, Dillinger JG, De Lorenzo MS, Yuan C, Lai L, Wang C, Ho D, Tian B, Stanley WC, Auwerx J, Vatner DE, Vatner SF. Common mechanisms for calorie restriction and adenylyl cyclase type 5 knockout models of longevity. *Aging Cell*. 2012 Dec;11(6):1110-20. [PubMed](#)

Yin Z, Dai J, Deng J, Sheikh F, Natalia M, **Shih** T, Lewis-Antes A, Amrute SB, Garrigues U, Doyle S, Donnelly RP, Kotenko SV, Fitzgerald-Bocarsly P. Type III IFNs are produced by and stimulate human plasmacytoid dendritic cells. *J Immunol*. 2012 Sep 15;189(6):2735-45. [PubMed](#)

Zhao X, **Park** J, Ho D, Gao S, Yan L, Ge H, Iismaa S, Lin L, Tian B, Vatner DE, Graham RM, Vatner SF. Cardiomyocyte overexpression of the  $\alpha$ 1A-adrenergic receptor in the rat phenocopies second but not first window preconditioning. *Am J Physiol Heart Circ Physiol*. 2012 Apr 15;302(8):H1614-24. [PubMed](#)