

GDBBS Student Peer-Reviewed Publications in Calendar Year 2007

BCDB

Abdulovic, Amy

Kim, N, AL Abdulovic, R Gealy, MJ Lippert and S Jinks-Robertson. 2007. Transcription-associated mutagenesis in yeast is directly proportional to the level of gene expression and influenced by the direction of DNA replication. DNA Repair In press.

Abdulovic, Amy

Abdulovic, AL, BK Minesinger and S Jinks-Robertson. 2007. Identification of a strand-related bias in the PCNA-mediated bypass of spontaneous lesions by yeast Pol[eta]. DNA Repair In press.

Lange, Allison

Lange, A, RE Mills, CJ Lange, M Stewart, SE Devine and AH Corbett. 2007. Classical nuclear localization signals: definition, function, and interaction with importin alpha. Journal of Biological Chemistry 282(8): 5101-5105.

Larkins, Christine

Caspary, T, CE Larkins and KV Anderson. 2007. The graded response to Sonic Hedgehog depends on cilia architecture. Developmental Cell 12(5): 767-778.

Litwa, Karen

Newell-Litwa, K, E Seong, M Burmeister and V Faundez. 2007. Neuronal and non-neuronal functions of the AP-3 sorting machinery. Journal of Cell Science 120(Pt 4): 531-541.

Tippens, Alyssa

Tippens, AL and A Lee. 2007. Caldendrin, a neuron-specific modulator of Cav1.2 (L-type)Ca²⁺ channels. Journal of Biological Chemistry 282(11): 8464-8473.

Xing, Lei

Zhang, H, L Xing, RH Singer and GJ Bassell. 2007. QNQKE targeting motif for the SMN-Gemin multiprotein complex in neurons. Journal of Neuroscience Research In press.

GMB

Bradford, Jennifer

Xin, ZT, AD Beauchamp, RT Calado, JW Bradford, JA Regal, A Shenoy, Y Liang, M Lansdorp, NS Young and H Ly. 2007. Functional characterization of natural telomerase mutations found in patients with hematological disorders. Blood 109(2): 524-532.

Cotney, Justin

Wang, Z, J Cotney and GS Shadel. 2007. Human mitochondrial ribosomal protein MRPL12 interacts directly with mitochondrial RNA polymerase to modulate mitochondrial gene expression. Journal of Biological Chemistry In press.

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Khwaja, Fatima

Khwaja, FW, MS Reed, JJ Olson, BJ Schmotzer, GY Gillespie, A Guha, MD Groves, S Kesari, J Pohl and EG Van Meir. 2007. Proteomic identification of biomarkers in the cerebrospinal fluid (CSF) of astrocytoma patients. *Journal of Proteome Research* 6(2): 559-570.

Martin, Melinda

Martin, M, B Tang, N Ta and A Escayg. 2007. Characterization of 5' untranslated regions of the voltage-gated sodium channels SCN1A, SCN2A, and SCN3A, and identification of cis-conserved non-coding sequences. *Genomics* In press.

Pak, ChangHui

Zhao, X, C Pak, RD Smrt and P Jin. 2007. Epigenetics and neural developmental disorders. *Epigenetics* 2(2): 130-138.

Pak, ChangHui

Duan, R, C Pak and P Jin. 2007. Single nucleotide polymorphism associated with mature miR-125a alters the processing of pri-miRNA. *Human Molecular Genetics* 16(9): 1124-1131.

Yang, Shang-Hsun

Yang, SH, Y Agca, PH Cheng, JJ Yang, C Agca and AW Chang. 2007. Enhanced transgenesis by intracytoplasmic injection of envelope-free lentivirus. *Genesis: the Journal of Genetics & Development* 45(4): 177-183.

IMP

Andrews, Nicolas

Andrews, NP, CD Pack, V Vezys, GN Barber and AE Lukacher. 2007. Early virus-associated bystander events affect the fitness of the CD8 T cell response to persistent virus infections. *Journal of Immunology* 178(11): In press.

Belser, Jessica

Pushko, P, TM Tumpey, N Van Hoeven, JA Belser, R Robinson, M Nathan, G Smith, DC Wright and RA Bright. 2007. Evaluation of influenza virus-like particles and novasome adjuvant as candidate vaccine for avian influenza. *Virology* In press.

Belser, Jessica

Garg, S, M Hoelscher, JA Belser, C Wang L Jayashankar, Z Guo, RH Durland, JM Katz and S Sambhara. 2007. Needle-free skin patch delivery of a pandemic influenza vaccine protects mice from lethal viral challenge. *Clinical and Vaccine Immunology* In press.

Dunham, Richard

Sumpter, B, R Dunham, S Gordon, J Engram, M Hennessy, A Kinter, M Paiardini, B Cervasi, N Klatt, H McClure, JM Milush, S Staprans, DL Sodora and G Silvestri. 2007. Correlates of preserved CD4(+) T cell homeostasis during natural, nonpathogenic simian immunodeficiency virus infection of sooty mangabeys: implications for AIDS pathogenesis. *Journal of Immunology* 178(3): 1680-1691.

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Dunham, Richard

Gordon, S, N Klatt, J Milush, J Engram, R Dunham, M Paiardini, E Strobert, C Apetrei, I Pandrea, S Staprans, D Sodora and G Silvestri. 2007. Severe depletion of mucosal CD4+ T-cells in AIDS-free SIV-infected sooty mangabeys. *Journal of Immunology* In press.

Lin, Eugene

Taylor, RT, SR Patel, E Lin, BR Butler, JG Lake, RD Newberry and IR Williams. 2007. Lymphotoxin-independent expression of TNF-related activation-induced cytokine by stromal cells in cryptopathces, isolated lymphoid follicles, and Peyer's patches. *Journal of Immunology* 178(9): 5659-5667.

Szretter, Kristy

Szretter, KJ, S Gangappa, X Lu, C Smith, WJ Shieh, SR Zaki, S Sambhara, TM Tumpey and JM Katz. 2007. Role of host cytokine responses in the pathogenesis of avian H5N1 influenza viruses in mice. *Journal of Virology* 81(6): 2736-2744.

Zoller, Allison

Zoller, AL, FJ Schnell and GJ Kersh. 2007. Murine pregnancy leads to reduced proliferation of maternal thymocytes and decreased thymic emigration. *Immunology* 121(2): 207-215.

MMG

Lebeis, Sarah

Lebeis, SL, B Bommarius, CA Parkos, MA Sherman and D Kalman. 2007. TLR signaling mediated by MyD88 is required for a protective innate immune response by neutrophils to *Citrobacter rodentium*. *Journal of Immunology* 179: 566-577.

MSP

Bush, Cristina

Bush, CF, SV Jones, AN Lyle, KP Minneman, KJ Ressler and RA Hall. 2007. Specificity of olfactory receptor interactions with other G protein-coupled receptors. *Journal of Biological Chemistry* In press.

Lyle, Alicia

Bush, CF, SV Jones, AN Lyle, KP Minneman, KJ Ressler and RA Hall. 2007. Specificity of olfactory receptor interactions with other G protein-coupled receptors. *Journal of Biological Chemistry* 282(26): 19042-19051.

Mitrano, Darlene

Jaworski, JN, HL Kimmel, DA Mitrano, RJ Tallarida and MJ Kuhar. 2007. Intra-VTA CART 55-102 reduces the locomotor effect of systemic cocaine in rats: an isobolographic analysis. *Neuropeptides* 41(2): 65-72.

Mitrano, Darlene

Mitrano, DA & Y Smith. 2007. Comparative analysis of the subcellular and subsynaptic localization of mGluR1a and mGluR5 metabotropic glutamate receptors in the shell and core of the nucleus accumbens in rat and monkey. *Journal of Comparative Neurology* 500(4): 788-806.

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Mitrano, Darlene

Bonsi, P, G Sciamanna, DA Mitrano, D Cuomo, G Bernardi, P Platania, Y Smith and A Pisani. 2007. Functional and ultrastructural analysis of group I mGluR in striatal fast-spiking interneurons. *European Journal of Neuroscience* 25(5): 1319-1331.

O'Connor, Roderick

O'Connor, RS, ST Mills, KA Jones, SN Ho and GK Pavlath. 2007. A combinatorial role for NFAT5 in both myoblast migration and differentiation during skeletal muscle myogenesis. *Journal of Cell Science* 120(Pt 1): 149-159.

O'Connor, Roderick

O'Connor, RS and GK Pavlath. 2007. Satellite cells are obligatory for skeletal muscle hypertrophy. *Journal of Applied Physiology (Point-Counterpoint)* In press.

Thomas, Shala

Ganesh, T, C Yang, A Norris, T Glass, S Bane, R Ravindra, A Banerjee, B Metaferia, SL Thomas, P Giannakakou, AA Alcaraz, AS Lakdawala, JP Snyder and DG Kingston. 2007. Evaluation of the tubulin-bound paclitaxel conformation: synthesis, biology, and SAR studies of C-4 to C-3' bridged paclitaxel analogues. *Journal of Medicinal Chemistry* 50(4): 713-725.

NHS

Barradas, Danielle

Barradas, DT, JE Fulton, HM Blanck and M Huhman. 2007. Parental influences on youth television viewing. *Journal of Pediatrics* In press.

Corvalan, Camila

Uauy, R, J Kain, V Mericq and C Corvalan. 2007. Nutrition, postnatal growth and chronic diseases in transitional countries. *Annals of Internal Medicine* In press.

Corvalan, Camila

Corvalan, C, CO Gregory, M Ramirez-Zea, R Martorell and AD Stein. 2007. Size at birth, infant, early and later childhood growth and adult body composition: a prospective study in a stunted population. *International Journal of Epidemiology* In press.

Dai, Jun

Gregory, CO, J Dai, M Ramirez-Zea and AD Stein. 2007. Occupation is more important than rural or urban residence in explaining the prevalence of metabolic and cardiovascular disease risk in Guatemalan adults. *Journal of Nutrition* 137(5): 1314-1319.

Gregory, Cria

Gregory, CO, J Dai, M Ramirez-Zea and AD Stein. 2007. Occupation is more important than rural or urban residence in explaining the prevalence of metabolic and cardiovascular disease risk in Guatemalan adults. *Journal of Nutrition* 137(5): 1314-1319.

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Gregory, Cria

Corvalan, C, CO Gregory, M Ramirez-Zea, R Martorell and AD Stein. 2007. Size at birth, infant, early and later childhood growth and adult body composition: a prospective study in a stunted population. *International Journal of Epidemiology* In press.

Imhoff-Kunsch, Beth

Imhoff-Kunsch, B, R Flores, O Dary and R Martorell. 2007. Wheat flour fortification is unlikely to benefit the neediest in Guatemala. *Journal of Nutrition* 137(4): 1017-1022.

Tian, Junqiang

Tian, J, N Washizawa, LH Gu, MS Levin, L Wang, DC Rubin, S Mwangi, S Srinivasan, DP Jones and TR Ziegler. 2007. Local glutathion redox status does not regulate ileal mucosal growth after massive small bowel resection in rats. *Journal of Nutrition* 137(2): 320-325.

Tian, Junqiang

Tian, J, N Washizawa, LH Gu, MS Levin, L Wang, DC Rubin, S Mwangi, S Srinivasan, Y Gao, DP Jones and TR Ziegler. 2007. Stimulation of colonic mucosal growth associated with oxidized redox status in rats. *American Journal of Physiology - Regulatory Integrative & Comparative Physiology* 292(3): R1081-1091.

Phan, Maggie

Scott, JW, HP Acevedo, L Sherrill and M Phan. 2007. Responses of the rat olfactory epithelium to retronasal air flow. *Journal of Neurophysiology* 97(3): 1941-1950.

NS

Bordelon, Jill

Olzmann, JA, JR Bordelon, EC Muly, HD Rees, AI Levey, L Li and LS Chin. 2007. Selective enrichment of DJ-1 protein in primate striatal neuronal processes: implications for Parkinson's disease. *Journal of Comparative Neurology* 500(3): 585-599.

Caudle, William

Richardson, JR, WM Caudle, TS Guillot, JL Watson, E Nakamaru-Ogiso, BB Seo, TB Sherer, JT Greenamyre, T Yagi, A Matsuno-Yagi and GW Miller. 2007. Obligatory role for complex I inhibition in the dopaminergic neurotoxicity of 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP). *Toxicological Sciences* 95(1): 196-204.

Caudle, William

Manning-Bog, AB, WM Caudle, XA Perez, SH Reaney, R Paletzki, MZ Isla, VP Chou, AL McCormack, M Quik, GW Miller, JW Langston, CR Gerfen and DA DiMonte. 2007. Increased vulnerability of nigrostriatal terminals in DJ-1-deficient mice is mediated by the dopamine transporter. *Neurobiology of Disease* In press.

Caudle, William

Caudle, WM, JL Tillerson, ME Reveron and GW Miller. 2007. Use-dependent behavioral and neurochemical asymmetry in MPTP mice. *Neuroscience Letters* 418(3): 213-216.

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Donaldson, Zoe

Grether, GF and ZR Donaldson. 2007. Communal roost site selection in the neotropical harvestman: habitat limitation vs. tradition. *Ethology* 113: 290-300.

Donaldson, Zoe

Donaldson, ZR and GF Grether. 2007. Tradition without social learning: pheromone-based communal roost sites in the Neotropical harvestman (*prionostemma* sp). *Behavioral Ecology and Sociobiology* In press.

Hatcher, Jaime

Hatcher, JM, JR Richardson, TS Guillot, AL McCormack, DA Di Monte, DP Jones, M Gearing, AI Levey, KP Pennell and GW Miller. 2007. Elevated levels of the pesticide dieldrin are associated with Parkinson's disease. *Experimental Neurology* 204(2): 619-630.

Michopoulos, Vasiliki

Michopoulos, V, DL Maney, CB Morehouse and JW Thomas. 2007. A genotyping assay to determine plumage morph in the white-throated sparrow, *zonotrichia albicollis*. *The Auk* In press.

Olzmann, James

Olzmann, JA, JR Bordelon, EC Muly, HD Rees, AI Levey, L Li and LS Chin. 2007. Selective enrichment of DJ-1 protein in primate striatal neuronal processes: implications for Parkinson's disease. *Journal of Comparative Neurology* 500(3): 585-599.

Olzmann, James

Kim*, BY, JA Olzmann*, GS Barsh, LS Chin and L Li (*These authors contributed equally). 2007. Spongiform neurodegeneration-associated E3 ligase Mahogunin ubiquitylates TSG101 and regulates endosomal trafficking. *Molecular Biology of the Cell* 18(4): 1129-1142.

Olzmann, James

Pridgeon*, JW, JA Olzmann*, LS Chin and L Li (*These authors contributed equally). 2007. PINK1 protects against oxidative stress-induced apoptosis by phosphorylating mitochondrial chaperone TRAP1/Hsp75. *PLoS Biology* In press.

PBEE

Mandl, Judith

White, L, JN Mandl, MGM Gomes, AT Bodley-Tickell, PA Cane, P Perez-Brena, JC Aguilar, MM Siqueira, SA Potes, SM Straliozzo, M Waris, DJ Nokes and GF Medley. 2007.

Understanding the transmission dynamics of respiratory syncytial virus using multiple time series and nested models. *Mathematical Biosciences* In press.

Meltz, Karyn

Meltz Steinberg, K and BR Levin. 2007. Grazing protozoa and the evolution of the *E. coli* O157:H7 shiga toxin encoding prophage. *Proceedings of the Royal Society B* In press.

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Meltz, Karyn

Meltz Steinberg, K, DT Okou and ME Zwick. 2007. Rapid DNA sequencing techniques and applications to pathogens. Analytical Chemistry In press.