

CCR MANUSCRIPT NOTIFICATION (MARCH 2010)

Laboratory of Immune Cell Biology - Jonathan Ashwell, M.D.

Samali A, Fulda S, Gorman AM, Hori O, and **Srinivasula SM**: Cell Stress and Cell Death. *Int J Cell Biol.* 2010: 245803, 2010. (LICB)

Vaccine Branch - Jay Berzofsky, M.D., Ph.D.

There were no submissions reported this month.

CCR Nanobiology Program - Robert Blumenthal, Ph.D.

Loomis K, Feng Y, Garg H, Yavlovich A, Campbell-Massa R, **Dimitrov DS**, **Blumenthal R**, Xiao X, and Puri A: Specific targeting to B cells by lipid-based nanoparticles conjugated with a novel CD22-ScFv. *Exp. Mol. Pathol.* In press. (CCRNP)

Pasek M, Boeggeman E, Ramakrishnan B, and **Qasba PK**: Galectin-1 as a fusion partner for the production of soluble and folded human β -1,4-galactosyltransferase-T7 in *E. coli*. *Biochem. Biophys. Res. Comm.* In press. (CCRNP)

Ramakrishnan B and **Qasba PK**: Crystal structure of the catalytic domain of drosophila β 1,4-galactosyltransferase-7. *J. Biol. Chem.* In press. (CCRNP)

Laboratory of Population Genetics - Kenneth Buetow, Ph.D.

There were no submissions reported this month.

Molecular Discovery Program - R. Andrew Byrd, Ph.D.

Structural Biophysics Laboratory - R. Andrew Byrd, Ph.D.

There were no submissions reported this month.

Molecular Targets Laboratory - James McMahon, Ph.D.

There were no submissions reported this month.

Chemical Biology Laboratory - Joel Schneider, Ph.D.

Li Q, Anver M, Li Z, Butcher DO, and **Gildersleeve JC**: GalNAc1-3Gal, a New Prognostic Marker for Cervical Cancer. *Int. J. Cancer.* 126: 459-468, 2010. (CBL)

Oyelaran O and **Gildersleeve JC**: Glycan Arrays: Recent Advances and Future Challenges. *Curr. Opin. Chem. Biol.* 13: 1-8, 2009. (CBL)

Radiation Oncology Branch - Kevin Camphausen, M.D.

Milenic DE, Brady ED, Garmestani K, Albert PS, Abdulla A, and **Brechbiel MW**: Improved efficacy of alpha-particle-targeted radiation therapy: dual targeting of human epidermal growth factor receptor-2 and tumor-associated glycoprotein 72. *Cancer.* 116(4 Suppl): 1059-1066, 2010. (ROB)

Lyakhov I, Zielinski R, Kuban M, Kramer-Marek G, Fisher R, Chertov O, Bindu L, and **Capala J**: HER2- and EGFR-specific affiproboscopes: novel recombinant optical probes for cell imaging. *Chembiochem.* 11(3): 345-350, 2010. (ROB)

Grace MB, Moyer BR, Prasher J, Cliffer KD, Ramakrishnan N, Kaminski J, **Coleman CN**, Manning RG, Maidment BW, and Hatchett R: Rapid radiation dose assessment for radiological public health emergencies: roles of NIAID and BARDA. *Health Phys.* 98(2): 172-178, 2010. (ROB)

Soule BP, Simone NL, Degraff WG, Choudhuri R, Cook JA, and **Mitchell JB**: Loratadine dysregulates cell cycle progression and enhances the effect of radiation in human tumor cell lines. *Radiat Oncol.* 5(1): 8, 2010. (ROB)

Mollapour M, Tsutsumi S, Donnelly AC, Beebe K, Tokita MJ, Lee MJ, Lee S, Morra G, Bourboulia D, Scroggins BT, Colombo G, Blagg BS, Panaretou B, **Stetler-Stevenson WG**, **Trepel JB**, Piper PW, Prodromou C, Pearl LH, and **Neckers L**: Swe1Wee1-dependent tyrosine phosphorylation of Hsp90 regulates distinct facets of chaperone function. *Mol Cell.* 37(3): 333-343, 2010. (ROB)

Mitchell JB, Choudhuri R, Fabre K, Sowers AL, **Citrin D**, Zabludoff SD, and Cook JA: In vitro and In vivo Radiation Sensitization of Human Tumor Cells by a Novel Checkpoint Kinase Inhibitor, AZD7762. *Clin Cancer Res.* In press. (ROB)

Bao J, Lu Z, Joseph JJ, Carabenciov D, Dimond CC, Pang L, Samsel L, McCoy Jr JP, Leclerc J, Nguyen P, **Gius D**, and Sack MN: Characterization of the murine SIRT3 mitochondrial localization sequence and comparison of mitochondrial enrichment and deacetylase activity of long and short SIRT3 isoforms. *J Cell Biochem.* In press. (ROB)

Lee SJ, Tsang PS, Diaz TM, Wei BY, and **Stetler-Stevenson WG**: TIMP-2 modulates VEGFR-2 phosphorylation and enhances phosphodiesterase activity in endothelial cells. *Lab Invest.* 90(3): 374-382, 2010. (ROB)

Molecular Imaging Program - Peter Choyke, M.D.

Greene MH, Kratz CP, Mai PL, Mueller C, Peters JA, **Bratslavsky G**, Ling A, **Choyke PL**, Premkumar A, Bracci J, Watkins RJ, McMaster ML, and Korde LA: Familial testicular germ cell tumors in adults: 2010 summary of genetic risk factors and clinical phenotype. *Endocr Relat Cancer*. 17(2): R109-R121, 2010. (MIP)

Ogawa M, Regino CA, Marcelino B, Williams M, Kosaka N, Bryant LH, **Choyke PL**, and **Kobayashi H**: New Nanosized Biocompatible MR Contrast Agents Based on Lysine-Dendri-Graft Macromolecules. *Bioconjug Chem*. In press. (MIP)

Turkbey B, **Pinto PA**, Mani H, Bernardo M, Pang Y, McKinney YL, Khurana K, Ravizzini GC, Albert PS, **Merino MJ**, and **Choyke PL**: Prostate Cancer: Value of Multiparametric MR Imaging at 3 T for Detection—Histopathologic Correlation. *Radiology*. 255(1): 89-99, 2010. (MIP)

Laboratory of Cancer Prevention - Nancy Colburn, Ph.D.

There were no submissions reported this month.

Neuro-Oncology Branch - Howard Fine, M.D.

There were no submissions reported this month.

Medical Oncology Branch - Giuseppe Giaccone, M.D., Ph.D.

There were no submissions reported this month.

Laboratory of Metabolism - Frank Gonzalez, Ph.D.

There were no submissions reported this month.

Laboratory of Cell Biology - Michael Gottesman, M.D.

Roy S, Musselman CA, Kachirskaia I, Hayashi R, Glass KC, Nix JC, Gozani O, **Appella E**, and Kutateladze TG: Structural insight into p53 recognition by the 53BP1 tandem Tudor domain. *J Mol Biol*. In press. (LCB)

Experimental Transplantation and Immunology Branch - Ronald Gress, M.D.

There were no submissions reported this month.

Laboratory of Receptor Biology and Gene Expression - Gordon Hager, Ph.D.

Dalal Y and Bui M: Down the Rabbit Hole of Centromere Assembly and Dynamics. *Curr. Opin. in Cell Biol.* 22: 1-10, 2010. (LRBGE)

Laboratory of Human Carcinogenesis - Curtis Harris, M.D.

There were no submissions reported this month.

HIV Drug Resistance Program - Stephen Hughes, Ph.D.

HIV DRP Host Virus Interaction Branch – Stephen Hughes, Ph.D.

Archin NM, Cheema M, Parker D, Wiegand A, Bosch RJ, Coffin JM, Eron J, Cohen M, and Margolis DM: Antiretroviral intensification and valproic acid lack sustained effect on residual HIV-1 viremia or resting CD4+ cell infection. *PLoS One.* 5: e9390, 2010. (HVIB; PI: **Hughes SH**)

Retroviral Replication Laboratory - Stephen Hughes, Ph.D.

Adamson CS, Sakalian M, Salzwedel K, and **Freed EO**: Polymorphisms in Gag spacer peptide 1 confer varying levels of resistance to the human immunodeficiency virus type 1 maturation inhibitor bevirimat. *Retrovirology.* 7: 36, 2010. (RRL)

Ahmadibeni Y, Dash C, Hanleya MJ, **Le Grice SFJ**, Agarwala HK, and Parang K: Synthesis of nucleoside 5'-O-alpha,beta-methylene-beta-triphosphates and evaluation of their potency towards inhibition of HIV-1 reverse transcriptase. *Org. Biomol. Chem.* 8: 1271-1274, 2010. (RRL)

Mazurov D, Ilinskaya A, Heidecker G, Lloyd P, and **Derse D**: Quantitative comparison of HTLV-1 and HIV-1 cell-to-cell infection with new replication dependent vectors. *PLoS Pathog.* 6: e1000788, 2010. (RRL)

Mbisa JL, Bu W, and **Pathak VK**: APOBEC3F and APOBEC3G inhibit HIV-1 DNA integration by different mechanisms. *J. Virol.* 84: 5250-5259, 2010. (RRL)

Nikolenko GN, Delviks-Frankenberry KA, and **Pathak VK**: A novel molecular mechanism of dual resistance to NRTIs and NNRTIs. *J. Virol.* 84: 5238-5249, 2010. (RRL)

Paprotka T, Venkatachari NJ, Chaipan C, Burdick R, Delviks-Frankenberry KA, **Hu W-S**, and **Pathak VK**: Inhibition of xenotropic murine leukemia virus-related virus by APOBEC3 proteins and antiviral drugs. *J. Virol.* 84: 5719-1729, 2010. (RRL)

Rausch JW, Abbondanzieri E, Liu S, Zhuang X, and **Le Grice SFJ**: Retrovirus replication: New perspectives on enzyme and substrate dynamics. In: Recent Advances in Retroviruses. In press. (RRL)

Sheng-Fowler L, Cai F, Fu H, Zhu Y, Orrison B, Foseh G, Blair DG, **Hughes SH**, Coffin JC, Lewis Jr AM, and Peden K: Tumors induced in mice by direct inoculation of plasmid DNA expressing both activated H-ras and c-myc. *Int. J. Biol. Sci.* 6: 151-162, 2010. (RRL)

Laboratory of Comparative Carcinogenesis - Larry Keefer, Ph.D.

Ziegler RG, Faupel-Badger JM, Sue LY, Fuhrman BJ, Falk RT, Boyd-Morin J, Henderson MK, Hoover RN, Veenstra TD, **Keefer LK**, and Xu X: A new approach to measuring estrogen exposure and metabolism in epidemiologic studies. *J Steroid Biochem Mol Biol.* In press. (LCC)

Tsihlis ND, Murar J, Kapadia MR, Ahanchi SS, Oustwani CS, Saavedra JE, **Keefer LK**, and Kibbe MR: Isopropylamine NONOate (IPA/NO) moderates neointimal hyperplasia following vascular injury. *J Vasc Surg.* In press. (LCC)

Phang JM, Liu W, and Zabornyk O: Proline metabolism and microenvironmental stress. *Ann Rev Nutr.* In press. (LCC)

Donovan P and Smith G: Mutagenicity of N-ethyl-N-nitrosourea, N-methyl-N-nitrosoethylurea, methyl methanesulfonate and ethyl methanesulfonate in the developing Syrian hamster fetus. *Mutation Res.* In press. (LCC; PI: **Keefer LK**)

Tokar EJ, Diwan BA, and **Waalkes MP**: Arsenic exposure in utero and non-epidermal proliferative response in adulthood in Tg.AC mice. *Int J Toxicol.* In press. (LCC)

Cell and Cancer Biology Branch - Kathleen Kelly, Ph.D.

There were no submissions reported this month.

Urologic Oncology Branch - W. Marston Linehan, M.D.

Browne H, **Linehan WM**, **Merino MJ**, Babar N, and Stratton P: Bilateral Lipid Cell Tumors in a Woman With Von Hippel Lindau Syndrome. *Obstetrics and Gynecology.* In press. (UOB)

McHone B, Jarrett TW, and **Pinto PA**: Tips and Tricks of Laparoscopic Partial Nephrectomy. *Minerva Urologica e Nefrologica.* In press. (UOB)

Young L, VanDyke R, Gulleman P, Yoshikazu I, Brown K, Schmidt LS, **Linehan WM**, Hajjar F, Kinder B, Trapnell B, Bissler J, Franz D, and McCormack F: Serum Vascular Endothelial Growth Factor-D Prospectively Distinguishes Lymphangiomyomatosis From Other Diseases. *Chest*. In press. (UOB)

Zhong M, DeAngelo P, Osborne L, Keane-Tarchichi M, Edelman L, **Linehan WM**, Yang Y, **Merino MJ**, Aisner S, and Hameed M: Dual-Color, Break-Apart FISH Assay on Paraffin-Embedded Tissues As an Adjunct to Diagnosis of Xp11 Translocation Renal Cell Carcinoma and Alveolar Soft Part Sarcoma. *The American Journal of Surgical Pathology*. In press. (UOB)

Laboratory of Cellular Oncology - Douglas Lowy, M.D.

There were no submissions reported this month.

Pediatric Oncology Branch - Crystall Mackall, M.D.

There were no submissions reported this month.

Genetics Branch - Paul Meltzer, M.D., Ph.D.

There were no submissions reported this month.

Lab of Cancer Biology & Genetics - Glenn Merlino, PhD and Stuart Yuspa, MD

Perez-Lorenzo R, Markell M, Hogan KA, **Yuspa SH** and Glick AB: Transforming growth factor beta dependent activation of protein kinase c enhances tumor promotion in skin carcinogenesis. *Carcinogenesis*. In press. (LCBG)

Pratt MM, King LC, Adams LD, John K, Sirajuddin P, **Olivero OA**, Manchester DK, Sram RJ, DeMarini DM and **Poirier MC**: Assessment of multiple types of DNA damage in human placentas from smoking and non smoking women in the Czech Republic. *Environmental and Molecular Mutagenesis*. In press. (LCBG)

Amos CI, Pinney SM, Li Y, Kupert E, Lee J, de Andrade MA, Yang P, Schwartz AG, Fain PR, Gazdar A, Minna J, **Wiest JS**, Zeng D, Rothschild H, Mandal D, You M, Coons T, Gaba C, Bailey-Wilson JE and Anderson MW: A susceptibility locus on chromosome 6q greatly increases lung cancer risk among light and never smokers. *Cancer Res*. 70(6): 235902367, 2010. (LCBG)

Bennett CN and **Green JE**: Genomic analyses as a guide to target identification and preclinical testing of mouse models of breast cancer. *Toxicol. Pathol*. 38(1): 88-95, 2010. (LCBG)

Gonzales-Moreno O, Lecanda J, **Green JE**, Swgura V, Catena R, Serrano D and Calvo A: VEGF elicits epithelial-mesenchymal transition (EMT) in prostate intraepithelial neoplasia (PIN)-like cells via an autocrine loop. *Exp. Cell Res.* 316(4): 554-567, 2010. (LCBG)

Barkan D, **Green JE** and Chambers AF: Extracellular matrix: A gatekeeper in the transition from dormancy to metastatic growth. *Eur. J. Cancer.* In press. (LCBG)

Calvo A, Perez-Stable C, Segura V, Catena R, Guruceaga E, Nguewa P, Blanco D, Parada L, Reiner T and **Green JE**: Molecular characterization of the Ggamma-globin-Tag transgenic mouse model of hormone refractory prostate cancer: Comparison to human prostate cancer. *Prostate.* In press. (LCBG)

Radiation Biology Branch - James Mitchell, Ph.D.

There were no submissions reported this month.

Laboratory of Cell and Developmental Signaling - Debbie Morrison, Ph.D.

There were no submissions reported this month.

Laboratory of Pathology - J. Carl Oberholtzer, M.D., Ph.D.

Jiang L, Malpica A, Deavers MT, Guo M, Villa LL, Nuovo G, **Merino MJ**, and Silva EG: Endometrial endometrioid adenocarcinoma of the uterine corpus involving the cervix: some cases probably represent independent primaries. *Int. J. Gynecol. Pathol.* 29(2): 146-156, 2010. (LP)

McDermott NE, Barrett J, Hipp J, **Merino MJ**, Lee RC, Waterman P, Domingo DL, and Walsh TJ: Successful treatment of periodontal mucormycosis: report of a case and literature review. *Oral Surg. Oral Med. Oral Pathol. Oral Radiol. Endod.* 109(3): e64-69, 2010. (LP)

Pittaluga S and **Jaffe ES**: (Invited Perspective) T-cell/histiocyte-rich large B-cell lymphoma. *Haematologica.* 95(3): 352-356, 2010. (LP)

Steidl C, Lee T, Shah SP, Farinha P, Han G, Nayar T, Delaney A, Jones SJ, Iqbal J, Weisenburger DD, Bast MA, Rosenwald A, Muller-Hermelink HK, Rimsza LM, Campo E, Delabie J, Braziel RM, Cook JR, Tubbs RR, **Jaffe ES**, Lenz G, Connors JM, **Staudt LM**, Chan WC, and Gascoyne RD: Tumor-associated macrophages and survival in classic Hodgkin's lymphoma. *N. Engl. J. Med.* 362: 875-885, 2010. (LP)

Laboratory of Genomic Diversity - Stephen O'Brien, Ph.D.

Behar DM, Rosset S, Tzur S, Selig S, Yudkovsky G, Bercovici S, Kopp JB, **Winkler CA**, Nelson GW, Wasser WG, and Skorecki K: African ancestry allelic variation at the MYH9 gene contributes to increased susceptibility to non-diabetic end-stage kidney disease in Hispanic Americans. *Hum Mol Genet.* In press. (LGD)

Nelson GW, Freedman BI, Bowden DW, Langefeld CD, An P, Hicks PJ, Bostrom MA, Johnson RC, Kopp JB, and **Winkler CA**: Dense mapping of MYH9 localizes the strongest kidney disease associations to the region of introns 13 to 15. *Hum Mol Genet.* In press. (LGD)

An P and **Winkler CA**: Host genes associated with HIV/AIDS: advances in gene discovery. *Trends in Genetics.* 26: 119-131, 2010. (LGD)

Herbeck JT, Gottlieb GS, **Winkler CA**, Nelson GW, An P, Maust BS, Wong KG, Troyer JL, Goedert JJ, Kessing BD, Detels R, Wolinsky SM, Martinson J, Buchbinder S, Kirk GD, Jacobson LP, Margolick JB, Kaslow RA, **O'Brien SJ**, and Mullins JI: Multi-Stage Genome-Wide Association Study of HIV-Disease Progression to Clinical AIDS. *J Infect Dis.* 201: 618-626, 2010. (LGD)

Reddy K, **Winkler CA**, Werner L, Mlisana K, Abdool Karim SS, Ndung'u T and CAPRISA Acute Infection Study Team: APOBEC3G expression is dysregulated in primary HIV-1 infection and polymorphic variants influence CD4+ T-cell counts and plasma viral load. *AIDS.* 24(2): 195-204, 2010. (LGD)

Lab of Molecular Biology - Ira Pastan, M.D. and Susan Gottesman, Ph.D.

Wayne AS, **Kreitman RJ**, Findely HW, Lew G, Delbrook C, Steinberg SM, **Stetler-Stevenson M**, **FitzGerald DJ** and **Pastan I**: Anti-CD22 immunotoxin RFB4(dsFv)-PE38 (BL22) for CD22-positive hematologic malignancies of childhood: preclinical studies and phase I clinical trial. *Clin. Cancer Res.* 16: 1894-1903, 2010. (LMB)

Matsusaka T, Asano T, Niimura F, Kinomura M, Shimizu A, **Pastan I**, Fogo AB, and Ichikawa I: Angiotensin receptor blocker protection against podocyte-induced sclerosis is podocyte angiotensin II type 1 receptor-independent. *Hypertension.* 55: 967-973, 2010. (LMB)

Lu C, Zhao L, Ying H, Willingham MC, and **Cheng SY**: Growth activation alone is not sufficient to cause metastatic thyroid cancer in a mouse model of follicular thyroid carcinoma. *Endocrinology.* 151: 1929-1939, 2010. (LMB)

Lu C and **Cheng SY**: Thyroid hormone receptors regulate adipogenesis and carcinogenesis via crosstalk signalling with peroxisome proliferator-activated receptors. *J. Mol. Endocrinol.* 44: 143-154, 2010. (LMB)

Sarnovsky R, Tendier T, Makowski M, Kiley M, Antignani A, Traini R, Zhang J, **Hassan R**, and **FitzGerald DJ**: Initial characterization of an immunotoxin constructed from domains II and III of cholera exotoxin. *Cancer Immunol Immunother.* 59: 737-746, 2010. (LMB)

Cancer & Developmental Biology Lab. - Alan Perantoni, Ph.D.

Kim MS, Yoon SK, Bollig F, Kitagaki J, Hur W, Whye NJ, Wu YP, Rivera MN, Park JY, Kim HS, Malik K, Bell DW, Englert C, **Perantoni AO** and Lee SB: A novel Wilms Tumor 1 (WT1) target gene negatively regulates the WNT signaling pathway. *J. Biol. Chem.* In press. (CDBL)

Ehrlich D, Bruder E, Thome MA, Gutt CN, von Knebel Doeberitz M, Niggler F, **Perantoni AO**, and Koesters R: Nuclear accumulation of beta-catenin protein indicates activation of wnt signaling in chemically induced rat nephroblastomas. *Pediatr. Dev. Pathol.* 13: 1-8, 2010. (CDBL)

Laboratory of Molecular Pharmacology - Yves Pommier, M.D., Ph.D.

Reinhold WC, Mergny JL, Liu H, Ryan M, Pfister TD, Kinders R, Parchment R, **Doroshov J**, Weinstein JN, and **Pommier Y**: Exon array analyses across the NCI-60 reveal potential regulation of TOP1 by transcription pausing at guanosine quartets in the first intron. *Cancer Res.* 70: 2191-2203, 2010. (LMP)

Luu T, Chow W, Lim D, Koczywas M, Frankel P, Cristea M, Margolin K, **Doroshov JH**, Somlo G, Gaur S, Yen Y, and Morgan RJ: Phase I trial of fixed-dose rate gemcitabine in combination with bortezomib in advanced solid tumors. *Anticancer Res.* 30: 167-174, 2010. (LMP)

Peddi P, Loftin CW, Dickey JS, Hair JM, Burns KJ, Aziz J, Francisco DC, Panayiotidis MI, Sedelnikova OA, **Bonner WM**, Winters TA, and Georgakilas AG: DNA-PKcs deficiency leads to persistence of oxidatively induced clustered DNA lesions in human tumor cells. *Free Radic. Biol. Med.* In press. (LMP)

Gril B, Evans L, Palmieri D, and **Steege PS**: Translational research in brain metastasis is identifying molecular pathways that may lead to the development of new therapeutic strategies. *Eur. J. Cancer.* In press. (LMP)

Sleeman J and **Steege PS**: Cancer metastasis as a therapeutic agent. *Eur. J. Cancer.* In press. (LMP)

Metifiot M, Maddali K, Naumova A, Zhang Z, Marchand C, and **Pommier Y**: Biochemical and pharmacological analyses in HIV-1 integrase flexible loop mutants resistant to Raltegravir. *Biochem.* In press. (LMP)

Oussedik K, Francois JC, Halby L, Senamaud-Beaufort C, Toutirais G, Dallavalle S, **Pommier Y**, Pisano C, and Arimondo PB: Sequence-specific targeting of IGF-I and IGF-IR genes by camptothecins. *FASEB J.* In press. (LMP)

Surgery Branch - Steven Rosenberg, M.D., Ph.D.

There were no submissions reported this month.

Laboratory of Cellular and Molecular Biology - Larry Samelson, M.D.

There were no submissions reported this month.

Laboratory of Tumor Immunology and Biology - Jeffrey Schlom, Ph.D.

Masuelli L, Marzocchella L, Focaccetti C, Lista F, Nardi A, Scardino A, Mattei M, Turriziani M, Modesti M, Forni G, **Schlom J**, Modesti A, and Bei R: Local delivery of recombinant vaccinia virus encoding for neu counteracts growth of mammary tumors more efficiently than systemic delivery in neu transgenic mice. *Cancer Immunol Immunother.* In press. (LTIB)

Farsaci B, Sabzevari H, Higgins JP, Di Bari MG, Takai S, **Schlom J**, and **Hodge JW**: Effect of a small molecule BCL-2 inhibitor on immune function and use with a recombinant vaccine. *Int J Cancer.* In press. (LTIB)

Experimental Immunology Branch - Alfred Singer, M.D.

There were no submissions reported this month.

Gene Regulation and Chromosome Biology Lab - Jeffrey Strathern, Ph.D.

There were no submissions reported this month.

Laboratory of Experimental Carcinogenesis - Snorri Thorgeirsson, M.D., Ph.D.

There were no submissions reported this month.

Cancer and Inflammation Program - Giorgio Trinchieri, M.D.

Laboratory of Molecular Immunoregulation - Joost Oppenheim, M.D.

Chen X, Subleski JJ, Hamano R, Howard OM, **Wiltrott RH**, and **Oppenheim JJ**: Co-expression of TNFR2 and CD25 identifies more of the functional CD4(+)FOXP3(+) regulatory T cells in human peripheral blood. *Eur J Immunol.* 40: 1099-1106, 2010. (LMI)

Laboratory of Experimental Immunology - Giorgio Trinchieri, M.D.

Julg B, Williams KL, Reddy S, Bishop K, Qi Y, **Carrington M**, Goulder PJ, Ndung'u T, and Walker BD: Enhanced anti-HIV functional activity associated with Gag-specific CD8 T-cell responses. *J Virol.* 84: 5540-5549, 2010. (LEI)

Hiby SE, Ashrafiyan-Bonab M, Farrell L, Single RM, Balloux F, **Carrington M**, Moffett A, and Ebrahimi Z: Erratum to: Distribution of killer cell immunoglobulin-like receptors(KIR) and their HLA-C ligands in two Iranian populations. *Immunogenetics.* 62(4): 261, 2010. (LEI)

Conesa A, Fernandez-Mestre M, Padron D, Toro F, Silva N, Tassinari P, Blanca I, Martin MP, **Carrington M**, and Layrisse Z: Distribution of killer cell immunoglobulin-like receptor genes in the mestizo population from Venezuela. *Tissue Antigens.* 75: 724-729, 2010. (LEI)

Pelak K, Goldstein DB, Walley NM, Fellay J, Ge D, Chianna KV, Gumbs C, Gao X, Maia JM, Cronin KD, Hussain SK, **Carrington M**, Michael NL, Weintrob AC; Infectious Disease Clinical Research Program HIV Working Group; National Institute of Allergy and Infectious Diseases Center for HIV/AIDS Vaccine Immunology (CHAVI): Host determinants of HIV-1 control in African Americans. *J Infect Dis.* 201(8): 1141-1149, 2010. (LEI)

Kuniholm MH, Kovacs A, Gao X, Xue X, Marti D, Thio CL, Peters MG, Terrault NA, Greenblatt RM, Goedert JJ, Cohen MH, Minkoff H, Gange SJ, Anastos K, Fazzari M, Harris TG, Young MA, Strickler HD, and **Carrington M**: Specific human leukocyte antigen class I and II alleles associated with hepatitis C virus viremia. *Hepatology.* 51: 1514-1522, 2010. (LEI)

Abdou AM, Gao X, Cozen W, Cerhan JR, Rothman N, Martin MP, Davis S, Schenk M, Chanock SJ, Hartge P, **Carrington M**, and Wang SS: Human leukocyte antigen (HLA) A1-B8-DR3 (8.1) haplotype, tumor necrosis factor (TNF) G-308A, and risk of non-Hodgkin lymphoma. *Leukemia.* 24: 1055-1058, 2010. (LEI)

Klinman DM, Klaschik S, Tomaru K, Shirota H, Tross D, and Ikeuchi H: Immunostimulatory CpG oligonucleotides: Effect on gene expression and utility as vaccine adjuvants. *Vaccine.* 28(8): 1919-1923, 2010. (LEI)

de Kluiver RL and **Sayers TJ**: Breast cancer bone metastases: Combination therapy targeting cancer cells and the tumor microenvironment. *Cancer Biol Ther.* 9: 551-553, 2010. (LEI)

Lee S, Yagita H, **Sayers TJ**, and Celis E: Optimized combination therapy using bortezomib, TRAIL and TLR agonists in established breast tumors. *Cancer Immunol Immunother.* 59: 1073-1081, 2010. (LEI)

Miller CH, Maher SG, and **Young HA**: Clinical Use of Interferon-gamma. *Ann NY Acad Sci.* 1182: 69-79, 2009. (LEI)

Dermatology Branch - Mark Udey, M.D., Ph.D.

There were no submissions reported this month.

Mouse Cancer Genetics Program - Terry Van Dyke, Ph.D.

There were no submissions reported this month.

Mammary Biology & Tumorigenesis Lab - Barbara Vonderhaar, Ph.D.

There were no submissions reported this month.

Metabolism Branch - Thomas Waldmann, M.D.

There were no submissions reported this month.

Laboratory of Protein Dynamics & Signaling - Allan Weissman, M.D.

There were no submissions reported this month.

Macromolecular Crystallography Laboratory - Alexander Wlodawer, Ph.D.

There were no submissions reported this month.

Laboratory of Biochemistry and Molecular Biology - Carl Wu, Ph.D.

There were no submissions reported this month.

HIV and AIDS Malignancy Branch - Robert Yarchoan, M.D.

Wang V, Davis DA, Veeranna RP, Haque M, and **Yarchoan R**: Characterization of the Activation of Protein Tyrosine Phosphatase, Receptor-Type, Z Polypeptide 1 (PTPRZ1) by Hypoxia Inducible Factor-2 Alpha. *PLoS ONE.* 5(3): e9641, 2010. (HAMB)

Basic Research Laboratory

There were no submissions reported this month.

Emeritus Scientists

Kazimierz Kasprzak

Bal W, Protas AM, and **Kasprzak KS**: Metal ions in toxicology: Effects, interactions, interdependencies. Sigel A, Sigel H, and Sigel RKO (Eds). In: Metal Ions in Life Sciences. Volume 8. In press. (LCC)

SAIC Frederick

AIDS and Cancer Virus Program - Jeffrey Lifson, M.D.

There were no submissions reported this month.