

CCR MANUSCRIPT NOTIFICATION (JANUARY 2010)

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

There were no submissions reported this month.

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

Gordon SN, Weissman AR, Ceccinato V, Fenizia C, Ma ZM, Lee TH, Zaffiri L, Andresen V, Parks RW, Jones KS, Heraud JM, Ferrari MG, Chung HK, Venzon D, Mahieux R, Murphy EL, Jacobson S, Miller CJ, **Ruscetti FW**, and **Franchini G**: Preexisting infection with human T-cell lymphotropic virus type 2 neither exacerbates nor attenuates simian immunodeficiency virus SIVmac251 infection in macaques. *J Virol.* 84(6): 3043-3058, 2010. (VB)

Zhu Q, Egelston C, Gagnon S, Sui Y, Belyakov IM, **Klinman DM**, and **Berzofsky JA**: Using 3 TLR ligands as a combination adjuvant induces qualitative changes in T cell responses needed for antiviral protection in mice. *J Clin Invest.* In press. (VB)

CCR Nanobiology Program - Robert Blumenthal, Ph.D.

There were no submissions reported this month.

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.

Acchione M, Lipschultz CA, DeSantis ME, Shanmuganathan A, Li M, **Wlodawer A**, Tarasov S, and **Smith-Gill SJ**: Light Chain Somatic Mutations Change Thermodynamics of Binding and Water Coordination in the HyHEL-10 Family of Antibodies. *Mol Immunol.* 47(2-3): 457-464, 2009. (SBL)

Molecular Targets Laboratory - James McMahon, Ph.D.

There were no submissions reported this month.

Chemical Biology Laboratory - Joel Schneider, Ph.D.

There were no submissions reported this month.

Radiation Oncology Branch - Kevin Camphausen, M.D.

Villaraza AJ, Bumb A, and **Brechbiel MW**: Macromolecules, Dendrimers, and Nanomaterials in Magnetic Resonance Imaging: The Interplay between Size, Function, and Pharmacokinetics. *Chem Rev.* In press. (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.* In press. (ROB)

Lee SJ, Tsang PS, M Diaz T, Wei BY, and **Stetler-Stevenson WG**: TIMP-2 modulates VEGFR-2 phosphorylation and enhances phosphodiesterase activity in endothelial cells. *Lab Invest.* In press. (ROB)

Molecular Imaging Program - Peter Choyke, M.D.

Annunziata CM, Walker AJ, Minasian L, Yu M, Kotz H, Wood BJ, Calvo K, **Choyke PL**, Kimm D, Steinberg SM, and **Kohn EC**: Vandetanib, designed to inhibit VEGFR2 and EGFR signaling, had no clinical activity as monotherapy for recurrent ovarian cancer and no detectable modulation of VEGFR2. *Clin Cancer Res.* 16(2): 664-672, 2010. (MIP)

Ravizzini G, Turkbey B, Barrett T, **Kobayashi H**, and **Choyke PL**: Nanoparticles in sentinel lymph node mapping. *Wiley Interdiscip Rev Nanomed Nanobiotechnol.* 1(6): 610-623, 2009. (MIP)

Regino CA, Wong KJ, Milenic DE, Holmes EH, Garmestani K, **Choyke PL**, and **Brechbiel MW**: Preclinical evaluation of a monoclonal antibody (3C6) specific for prostate-specific membrane antigen. *Curr Radiopharm.* 2(1): 9-17, 2009. (MIP)

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

Hartman TN, Albert PS, Zhang Z, Bagshaw D, Kris-Etherton PM, Ulbrecht J, Miller CK, Bobe G, **Colburn NH** and Lanza E: Consumption of a legume-enriched, low-glycemic index diet is associated with biomarkers of insulin resistance and inflammation among men at risk for colorectal cancer. *J Nutr.* 140(1): 60-67, 2010. (LCP)

Crea F, Mathews LA, **Farrar WL** and Hurt EM: Targeting prostate cancer stem cells. *Anticancer Agents Med Chem.* 9(10): 1105-1113, 2009. (LCP)

Wirth EK, Conrad M, Winterer J, Wonzy C, Carlson BA, Roth S, Schmitz D, Bornkamm GW, Coppola V, **Tessarollo L**, Schomburg L, Kohrle J, **Hatfield DL** and Schweizer U: Neuronal selenoprotein expression is required for interneuron development and prevents seizures and neurodegeneration. *FASEB J.* In press. (LCP)

Geiman TM and **Muegge K**: DNA methylation in early development. *Mol Reprod Dev.* 77(2): 105-113, 2010. (LCP)

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

Iwamoto F and **Fine HA**: Bevacizumab For Malignant Gliomas. *Archives of Neurology.* In press. (NOB)

Iwamoto F, Lamborn K, Robbins HI, Mehta M, Chang S, Butowski N, DeAngelis L, Abrey L, Zhang W, Prados M, and **Fine HA**: Phase II Trial of Pazopanib (GW786034), an Oral Multi-Targeted Angiogenesis Inhibitor, for Adults with Recurrent Glioblastoma (North American Brain Tumor Consortium Study 06-02). *Neuro Oncology.* In press. (NOB)

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

Sharma H, Sissung T, Pressler H, and **Figg WD**: Stromal-Epithelial Interactions are Responsible for Prostate Tumor Progression Through an Androgen-Related Mechanism. *Cancer Biol. Ther.* In press. (MOB)

Baum CE, Price DK, and **Figg WD**: Sarcosine as a potential prostate cancer biomarker and therapeutic target. *Cancer Biol. Ther.* In press. (MOB)

Laboratory of Metabolism - Frank Gonzalez, Ph.D.

There were no submissions reported this month.

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

Calcagno AM and **Ambudkar SV**: Molecular mechanisms of drug resistance in single-step and multi-step drug-selected cancer cells. *Methods Mol. Biol.* 596: 77-93, 2010. (LCB)

Cui F and **Zhurkin VB**: Structure-based Analysis of DNA Sequence Patterns Guiding Nucleosome Positioning in vitro. *J. Biomol. Struct. Dynamics.* In press. (LCB)

De Donatis GM, Singh SK, Viswanathan S, and **Maurizi MR**: A single ClpS monomer is sufficient to direct the activity of the ClpA hexamer. J. Biol. Chem. 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.

Sahu G, Wang D-F, Chen CB, **Zhurkin VB**, Harrington RE, **Appella E**, **Hager GL**, and Nagaich AK: p53 Binding to nucleosomal DNA depends on rotational positioning of a DNA response element. J. Biol Chem. 285(2): 1321-1332, 2010. (LRBGE)

Luo Y, Jian W, Stavreva DA, Fu XD, **Hager GL**, Bungert J, Huang S, and Qiu Y: Trans-regulation of histone deacetylase activities through acetylation. J Biol Chem. 284: 34901-34910, 2009. (LRBGE)

Dalal Y: Alternative Nucleosomal States. McGraw-Hill Science and Technology Research Updates. pg 11-12, 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.

Boltz VF, **Maldarelli F**, Martinson N, Morris L, McIntyre JA, Gray G, Hopley MJ, Kimura T, Mayers DL, Robinson P, Mellors JW, Coffin JM, and Palmer SE: Optimization of allele-specific PCR using patient specific HIV consensus sequences for primer design. J. Virol. Methods. 164: 122-126, 2010. (HVIB)

Halvas EK, Wiegand A, Boltz VF, **Kearney M**, Nissley D, Wantman M, Hammer S, Palmer S, Vaida F, Coffin JM, and Mellors JW: Low frequency NNRTI-resistant variants contribute to failure of Efavirenz-containing regimens in treatment-experienced patients. J. Infect. Dis. 201(5): 672-680, 2010. (HVIB)

McMahon D, Jones J, Wiegand A, Gange SJ, **Kearney M**, Palmer S, McNulty S, Metcalf JA, Acosta E, Rehm C, Coffin JM, Mellors JW, and **Maldarelli F**: Short course Raltegravir intensification does not reduce persistent low level viremia in patients suppressed on combination antiretroviral therapy. Clin. Infect. Dis. 50: 912-919, 2010. (HVIB)

Retroviral Replication Laboratory - Stephen Hughes, Ph.D.

Ahmadibeni Y, Dash C, Hanleya MJ, **Le Grice SFJ**, Agarwala HK, and Parang K: Synthesis of nucleoside 5-O₃-methylene-triphosphates and evaluation of their potency towards inhibition of HIV-1 reverse transcriptase. *Org. Biomol. Chem.* In press. (RRL)

Checkley MA, Luttge BG, Soheilian F, Nagashima K, and **Freed EO**: The capsid-spacer peptide 1 Gag processing intermediate is a dominant-negative inhibitor of HIV-1 maturation. *Virology*. 400: 137-144, 2010. (RRL)

Ferris AL, Wu X, Hughes CM, Stewart C, Smith SJ, Milne TA, Wang GG, Shun MC, Allis CD, Engelman A, and **Hughes SH**: Lens epithelium-derived growth factor (LEDGF) fusion proteins redirect HIV-1 DNA integration. *Proc. Natl. Acad. Sci. USA*. 107: 3135-3140, 2010. (RRL)

Furtak V, Mulky A, Rawlings SA, Kozhaya L, Lee K, **KewalRamani VN**, and Unutmaz D: Perturbation of the P-body component Mov10 inhibits HIV-1 infectivity. *PLoS ONE*. 5: e9081, 2010. (RRL)

Himmel DM, Maegley KA, Pauly TA, Bauman JD, Das K, Dharia C, Clark Jr AD, Ryan K, Hickey MJ, Love RA, **Hughes SH**, Bergqvist S, and Arnold E: Structure of HIV-1 reverse transcriptase with the inhibitor beta-thujaplicinol bound at the RNase H active site. *Structure*. 17: 1625-1635, 2009. (RRL)

Lee K and Jones KS: The path well travel traveled: Using mammalian retroviruses to inform research on XMRV. *Mol. Interv.* 10: 20-24, 2010. (RRL; PI: **Hughes SH**)

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

Waheed AA, Ablan SD, Sowder RC, Roser JD, Schaffner CP, Chertova E, and **Freed EO**: Effect of mutations in the human immunodeficiency virus type 1 protease on cleavage of the gp41 cytoplasmic tail. *J. Virol.* 84: 3121-3126, 2010. (RRL)

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

There were no submissions reported this month.

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

There were no submissions reported this month.

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

Greene MH, Kratz CP, Mai PL, Mueller C, Peters JL, **Bratslavsky G**, Ling E, **Choyke PM**, Premkumar A, Bracci J, Watkins RJ, McMaster ML, and Korde LM: Familial Testicular Germ Cell Tumors in Adults: 2010 Summary of Genetic Risk Factors and Clinical Phenotype. Endocrine-related Cancer. In press. (UOB)

Lerner SP, Bochner B, **Linehan WM**, Klein E, and Cookson M: Overview of SUO Winter 2008 Proceedings. Urologic Oncology: Seminars and Original Investigations. 28(1): 67-68, 2010. (UOB)

Rahma O, Ashtar E, Ibrahim RA, Toubaji A, Gause B, Herrin VE, **Linehan WM**, Steinberg SM, Grollman F, Grimes G, Bernstein SA, **Berzofsky JA**, and **Khleif SN**: A Pilot Clinical Trial Testing Mutant Von Hippel-Lindau Peptide As a Novel Immune Therapy in Metastatic RCC. J Translational Medicine. 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

There were no submissions reported this month.

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.

Ptaszynska MM, Pendrak ML, Stracke ML, and **Roberts DD**: Autotaxin signaling via lysophosphatidic acid receptors contributes to vascular endothelial growth factor-induced endothelial cell migration. *Mol. Cancer Res.* In press. (LP)

Su J, Cui X, Li Y, Mani H, Ferreyra GA, Danner RL, Hsu LL, Fitz Y, and Eichacker PQ: SB203580, a p38 inhibitor, improved cardiac function but worsened lung injury and survival during *Escherichia coli* pneumonia in mice. *J. Trauma.* In press. (LP; PI: **Oberholtzer JC**)

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

There were no submissions reported this month.

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

Xiao X, **Ho M**, Zhu Z, **Pastan I** and **Dimitrov DS**: Identification and characterization of fully human anti-CD22 monoclonal antibodies. *MAbs.* 1: 297-303, 2009. (LMB)

Feng Y, Xiao X, Zhu Z, Streaker E, **Ho M**, **Pastan I**, and **Dimitrov DS**: A novel human monoclonal antibody that binds with high affinity to mesothelin-expressing cells and kills them by ADCC. *Mol. Cancer Ther.* 8: 1113-1118, 2009. (LMB)

Bogner C, Dechow T, Ringshausen I, Wagner M, Oelsner M, Lutzny G, Licht T, Peschel C, **Pastan I**, **Kreitman RJ** and Decker T: Immunotoxin BL22 induces apoptosis in mantle cell lymphoma (MCL) cells dependent on Bcl-2 expression. *Br. J. Haematol.* 148: 99-109, 2010. (LMB)

Ribeiro MO, Bianco SD, Kaneshige M, Schultz JJ, **Cheng SY**, Bianco AC and Brent GA: Expression of uncoupling protein 1 in mouse brown adipose tissue is thyroid hormone receptor-beta isoform specific and required for adaptive thermogenesis. *Endocrinology.* 151: 432-440, 2010. (LMB)

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

There were no submissions reported this month.

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

Reinhold WC, Reimers MA, Lorenzi P, Ho J, Shankavaram UT, Ziegler MS, Bussey KJ, Nishizuka S, Ikediobi O, **Pommier Y**, and Weinstein J: Multifactorial regulation of E-cadherin expression: an integrative study. *Mol. Cancer Ther.* 9: 1-16, 2010. (LMP)

Sordet O, Nakamura AJ, Redon CE, and **Pommier Y**: DNA double-strand breaks and ATM activation by transcription-blocking DNA lesions. *Cell Cycle*. 9: 274-278, 2010. (LMP)

Nakamura AJ, Rao VA, **Pommier Y**, and **Bonner WM**: The complexity of phosphorylated H2AX foci formation and DNA repair assembly at DNA double-strand breaks. *Cell Cycle*. 9: 389-397, 2010. (LMP)

Dexheimer TS, Stephen AG, Fivash MJ, Fisher RJ, and **Pommier Y**: The DNA binding and 3'-end preferential activity of human tyrosyl-DNA phosphodiesterase. *Nucl. Acids Res.* In press. (LMP)

Kim S, **Aladjem MI**, McFadden GB, and **Kohn KW**: Predicted functions of MdmX in fine tuning the response of p53 to DNA damage. *PLoS Comp. Biol.* In press. (LMP)

Sedelnikova OA, Redon CE, Dickey JS, Nakamura AJ, Georgakilas AG, and **Bonner WM**: Role of oxidatively induced DNA lesions in human pathogenesis. *Mutat. Res.* 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.

Dikovskaya D, Li Z, Newton IP, Davidson I, Hutchins JR, **Kalab P**, Clarke PR, and Nathke IS: Microtubule assembly by the Apc protein is regulated by importin beta/RanGTP. *J. Cell Sci.* In press. (LCMB)

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

There were no submissions reported this month.

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.

Andersen J, Loi R, Perra A, Factor V, Ledda-Columbano G, Columbano A, and **Thorgeirsson SS**: Progenitor-derived hepatocellular carcinoma model in the rat. *Hepatology*. In press. (LEC)

Zhou X, Yang X-Y, and Popescu NC: Synergistic antineoplastic effect of DLC1 tumor suppressor protein and histone deacetylase inhibitor, suberoylanilide hydroxamic acid (SAHA), on prostate and liver cancer cells: perspectives for therapeutics. *Int J. Oncol.* In press. (LEC)

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

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

There were no submissions reported this month.

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

Kulkarni S, Martin MP, and **Carrington M**: KIR genotyping by multiplex PCR-SSP. *Methods Mol Biol.* 612: 365-375, 2010. (LEI)

Huang J, Goedert JJ, Sundberg EJ, Chung TD, Burke PS, Martin MP, Preiss L, **Lifson JD**, Lichterfeld M, **Carrington M**, and Yu XG: HLA-B*35-Px-mediated acceleration of HIV-1 infection by increased inhibitory immunoregulatory impulses. *J Exp Med.* 206(13): 2959-2966, 2009. (LEI)

Traherne JA, Martin M, Ward R, Ohashi M, Pellett F, Gladman D, Middletown D, **Carrington M**, and Trowsdale J: Mechanisms of copy number variation and hybrid gene formation in the KIR immune gene complex. *Hum Mol Genet.* 5: 737-751, 2010. (LEI)

Hiby SE, Ashrafian-Bonab M, Farrell L, Single RM, Balloux F, **Carrington M**, and Moffett A: Distribution of killer cell immunoglobulin-like receptors (KIR) and their HLA-C ligands in two Iranian populations. *Immunogenetics.* 62: 65-73, 2010. (LEI)

Thomas R, Apps R, Qi Y, Gao X, Male V, O'hUigin C, O'Connor G, Ge D, Fellay J, Martin JN, Margolick J, Goedert JJ, Buchbinder S, Kirk GD, Martin MP, Telenti A, Deeks SG, Walker BD, Goldstein D, **McVicar DW**, Moffett A, and **Carrington M**: HLA-C cell surface expression and control of HIV/AIDS correlate with a variant upstream of HLA-C. *Nat Genet.* 41(12): 1290-1294, 2009. (LEI)

Allikmets R, **Dean M**, Hageman GS, Baird PN, Klaver CC, Bergen AA, Weber BH; and the International AMD Genetics Consortium: The SERPING1 gene and age-related macular degeneration. *Lancet.* 374(9693): 875-876, 2009. (LEI)

Kirchhoff T, Chen ZQ, Gold B, Pal P, Gaudet MM, Kosarin K, Levine DA, Gregersen P, Spencer S, Harlan M, Robson M, Klein RJ, Hudis CA, Norton L, **Dean M**, and Offit K: The 6q21.33 locus and breast cancer susceptibility. *Cancer Epidemiol Biomarkers Prev.* 18(9): 2468-2475, 2009. (LEI)

Allikmets R, Bergen AA, **Dean M**, Guymer RH, Hageman GS, Klaver CC, Stefansson K, Weber BH; and the International Age-related Macular Degeneration Genetics Consortium: Geographic atrophy in age-related macular degeneration and TLR3. *N Engl J Med.* 360(21): 2252-2254, 2009. (LEI)

Lou H, Yeager M, Li H, Bosquet JG, Hayes RB, Orr N, Yu K, Hutchinson A, Jacobs KB, Kraft P, Wacholder S, Chatterjee N, Feigelson HS, Thun MJ, Diver WR, Albanes D, Virtamo J, Weinstein S, Ma J, Gaziano JM, Stampfer M, Schumacher FR, Giovannucci E, Cancel-Tassin G, Cussenot O, Valeri A, Andriole GL, Crawford ED, Ander SK, Tucker M, Hoover RN, Fraumeni Jr JF, Thomas G, Hunter DJ, **Dean M**, and Chanock SJ: Fine mapping and functional analysis of a common variant in MSMB on chromosome 10q11.2 associated with prostate cancer susceptibility. *Proc Natl Acad Sci USA.* 106(19): 7933-7938, 2009. (LEI)

Sturm A, Cunningham P, and **Dean M**: The ABC transporter gene family of *Daphnia pulex*. *BMC Genomics.* 10: 170, 2009. (LEI)

Weiss JM, Back TC, Scarzello AJ, Subleski JJ, Hall VL, Stauffer JK, Chen X, Micic D, Alderson K, Murphy WJ, and **Wiltrot RH**: Successful immunotherapy with IL-2/anti-CD40 induces the cytokine-mediated mitigation of an immunosuppressive tumor microenvironment. *Proc Natl Acad Sci USA.* 106(46): 19455-19460, 2009. (LEI)

Subleski JJ, **Wiltrot RH**, and Weiss JM: Application of tissue-specific NK and NKT cell activity for tumor immunotherapy. *J Autoimmun.* 33(3-4): 275-281, 2009. (LEI)

Li H, Wright PW, and **Anderson SK**: Identification and analysis of novel transcripts and promoters in the human killer cell immunoglobulin-like receptor (KIR) genes. *Methods Mol Biol.* 612: 377-391, 2010. (LEI)

Tang M, Zeng Y, Poisson A, Marti D, Guan L, Zheng Y, Deng H, Liao J, Guo X, Sun S, Nelson G, de The G, **Winkler CA**, **O'Brien SJ**, **Carrington M**, and Gao X: Haplotype-dependent HLA susceptibility to nasopharyngeal carcinoma in a Southern Chinese population. *Genes Immun.* 11: 334-342, 2010. (LEI)

Fellay J, Ge D, Shianna KV, Colombo S, Ledergerber B, Cirulli ET, Urban TJ, Zhang K, Gumbs CE, Smith JP, Castagna A, Cozzi-Lepri A, De Luca A, Easterbrook P, Gunthard HF, Mallal S, Mussini C, Dalmau J, Martinez-Picado J, Miro JM, Obel N, Wolinsky SM, Martinson JJ, Detels R, Margolick JB, Jacobson LP, Descombes P, Antonarakis SE, Beckmann JS, **O'Brien SJ**, Letvin NL, McMichael AJ, Haynes BF, **Carrington M**, Fend S, Telenti A, Goldstein DB; and NIAID Center for HIV/AIDS

Vaccine Immunology (CHAVI). Common genetic variation and the control of HIV-1 in humans. *PLoS Genet* (12): e1000791, 2009. (LEI)

Wang HB, Kondo A, Yoshida A, Yoshizaki S, Abe S, Bao LL, Mizuki N, Ichino M, **Klinman D**, Okuda K, and Shimada M: Partial protection against SIV challenge by vaccination of adenovirus and MVA vectors in rhesus monkeys. *Gene Ther.* 17(1): 4-13, 2010. (LEI)

Klaschik S, Tross D, Shirota H, and **Klinman DM**: Short- and long-term changes in gene expression mediated by the activation of TLR9. *Mol Immunol.* 47: 1317-1324, 2010. (LEI)

Klinman DM, Klaschik S, Tross D, Shirota H, and Steinhagen F: FDA guidance on prophylactic DNA vaccines: Analysis and recommendations. *Vaccine.* 28: 2801-2805, 2010. (LEI)

Sloane E, Langer S, Jekich B, Mahoney J, Hughes T, Frank M, Seibert W, Huberty G, Coats B, Harrison J, **Klinman D**, Poole S, Maier S, Johnson K, Chavez R, Watkins LR, Leinwand L, and Milligan E: Immunological priming potentiates non-viral anti-inflammatory gene therapy treatment of neuropathic pain. *Gene Ther.* 16(10): 1210-1222, 2009. (LEI)

Abe S, Okuda K, Ura T, Kondo A, Yoshida A, Yoshizaki S, Mizuguchi H, **Klinman D**, and Shimada M: Adenovirus type 5 with modified hexons induces robust transgene-specific immune responses in mice with pre-existing immunity against adenovirus type 5. *J Gene Med.* 11(7): 570-579, 2009. (LEI)

Whittaker GC, Orr SJ, Quigley L, Hughes L, Francischetti IM, Zhang W, and **McVicar DW**: The linker for activation of B cells (LAB)/non-T cell activation linker (NTAL) regulates triggering receptor expressed on myeloid cells (TRIM)-2 signaling and macrophage inflammatory responses independently of the linker for activation of T cells. *J Biol Chem.* 285(5): 2976-2985, 2010. (LEI)

Savan R, Chan T, and **Young HA**: Lentiviral gene transduction in human and mouse NK cell lines. *Methods Mol Biol.* 612: 209-221, 2010. (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.

Citrin D, Mansueti J, Likhacheva A, Sciuto L, Albert PS, Rudy S, Cooley-Zgela T, Cotrim A, Solomon B, Colevas D, Russo A, **Morris JC**, Herscher L, and Van Waes C: Long-term outcomes and toxicity of concurrent paclitaxel and radiation in the treatment of locally advanced head and neck cancer. *Int J Radiat Oncol Biol Phys.* 74:1040-1046, 2009. (MB)

Martiniova L, Lai EW, Elkahloun AG, Abu-Asab M, Canagasaby A, Solis DC, Lubensky IA, Tischler AS, Kvetnansky R, Alesci S, **Morris JC**, and Pacak K: Characterization of a model of metastatic pheochromocytoma reveals an aggressive gene expression signature. *Clin Exp Metastasis.* 26: 239-250, 2009. (MB)

Pernas FG, Allen CT, Winters ME, Dabir B, Saigal K, Munding GS, Yan B, Xu X, **Morris JC**, Calvo K, Van Waes C, and Chen Z: Proteomic signatures and responses of epidermal growth factor receptor and survival signal pathways correspond to gefitinib sensitivity in head and neck cancer. *Cancer Res.* 15: 2361-2372, 2009. (MB)

O'Mahony D, **Morris JC**, **Stetler-Stevenson M**, Matthews H, Pittaluga S, **Raffeld M**, Albert P, Kaucic K, Hammershaimb L, **Waldmann TA**, and **Janik JE**: EBV-related lymphoproliferative disease complicating therapy with the anti-CD2 monoclonal antibody, siplizumab, in patients with T-cell lymphoproliferative disorders. *Clin Cancer Res.* 15: 2514-2522, 2009. (MB)

Pise-Masison CA, Radonovich M, Dohoney K, **Morris JC**, O'Mahony D, Lee M-J, **Trepel J**, **Waldmann TA**, **Janik JE**, and Brady JN: Gene expression profiling of ATL patients: compilation of disease related genes and evidence for TCF-4 involvement in BIRC5 gene expression and cell viability. *Blood.* 113:4016-4026, 2009. (MB)

Jiang L, Yuan C, Hubacheck J, **Janik JE**, **Morris JC**, Jasper GA, and **Stetler-Stevenson M**: CD52 is heterogeneously expressed on neoplasms of mature T-lymphocytes and NK cells: A flow cytometric evaluation. *Br J Haematol.* 145: 173-179, 2009. (MB)

Lai EW, Joshi BH, Martiniova L, Dogra R, Fujisawa T, Leland P, de Krijger RR, Lubensky IA, Elkahloun AG, **Morris JC**, Raj RK, and Pacak K: Overexpression of interleukin-13 Receptor $\alpha 2$ in neuroendocrine malignant pheochromocytoma: A novel target for receptor-directed anti-cancer therapy. *Clin Endocrinol Metab.* 94: 2952-2957, 2009. (MB)

Morris JC and **Waldmann TA**: Antibody-based therapy of leukemia. *Expert Reviews in Molecular Medicine.* 11: e29, 2009. (MB)

Kelly RJ and **Morris JC**: Transforming growth factor-beta: A target for cancer therapy. *J Immunotoxicol*. In press. (MB)

VanWaes C, Allen CT, **Citrin D**, Gius D, Colevas AD, Nottingham L, Harold N, Rudy S, Muir C, Chen Z, Singh AK, Dancey J, and **Morris JC**: Molecular and clinical responses to gefitinib combined with paclitaxel and radiation in patients with locally advanced head and neck cancers from a pilot phase I clinical study. *Int J Radiat Oncol Biol Phys*. In press. (MB)

Janik JE and **Morris JC**: Survivin(g) adult T-cell leukemia/lymphoma. *Oncology*. 23: 1256-1266, 2009. (MB)

Shao H, Yuan C, **Raffeld M**, **Morris JC**, **Janik JE**, and **Stetler-Stevenson M**: Flow cytometric analysis of minimal residual disease in adult T-cell leukemia/lymphoma. *Am J Clin Pathol*. In press. (MB)

Steel JC, Ramlogan CA, Yu P, Forni G, Sakai Y, **Waldmann TA**, and **Morris JC**: Interleukin-15 and its receptor augment anti-tumor dendritic cell vaccination against the neu oncogene partially independent of CD4+ help. *Cancer Res*. In press. (MB)

Morrison BJ, Steel JC, Gregory M, **Morris JC**, and Malyguine A: Genetically-modified dendritic cells in cancer immunotherapy. Shurin MR and Salter RD (Eds.). In: *Dendritic Cells in Cancer*. (Springer: New York, NY) p. 347-363, 2009. (MB)

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.

Burbelo PD, Issa AT, Ching KH, Wyvill KM, Little RF, Iadarola MJ, Kovacs JA, and **Yarchoan R**: Distinct profiles of antibodies to Kaposi sarcoma-associated herpesvirus antigens in patients with Kaposi sarcoma, multicentric Castlemann disease, and primary effusion lymphoma. *J. Infectious Diseases*. In press. (HAMB)

Basic Research Laboratory

There were no submissions reported this month.

Emeritus Scientists

Victor Marquez

Menigatti M, Cattaneo E, Sabates-Bellver J, Ilinsky VV, Went P, Buffoli F, **Marquez VE**, Jiricny J, and Marra G: The protein tyrosine phosphatase receptor type R gene is an early and frequent target of silencing in human colorectal tumorigenesis. *Molecular Cancer*. In press. (CBL)

Kwon MJ, Kim SS, Choi YL, Jung HS, Balch C, Kim SH, Song YS, **Marquez VE**, Nephew KP, and Shin YK: Derepression of CLDN3 and CLDN4 during ovarian tumorigenesis is associated with loss of repressive histone modifications. *Carcinogenesis*. In press. (CBL)

SAIC Frederick

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

There were no submissions reported this month.