

CCR MANUSCRIPT NOTIFICATION (JUNE 2009)

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

There were no submissions reported this month.

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

There were no submissions reported this month.

CCR Nanobiology Program - Robert Blumenthal, Ph.D.

Miller Y, Ma B, and Nussinov R: Polymorphism of alzheimer's A β 17-42 (p3) oligomers: The importance of the turn location and its conformation. *Biophys. J.* In press. (CCRNP)

Yavlovich A, Singh A, Tarasov S, Capala J, Blumenthal R, and Puri A: Design of liposomes containing photopolymerizable phospholipids for triggered release of contents. *J. Thermal Analysis and Calorimetry.* In press. (CCRNP)

Zhang MY and Dimitrov DS: Sequential antigen panning for selection of broadly cross-reactive HIV-1-neutralizing human monoclonal antibodies. *Methods Mol. Biol.* 562: 143-154, 2009. (CCRNP)

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

There were no submissions reported this month.

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

Laboratory of Medicinal Chemistry - Victor Marquez, Ph.D.

Comin MJ, Czifra G, Kedei N, Telek A, Lewin NE, Kolusheva S, Velasquez JF, Kobylarz R, Jelinek R, Blumberg PM, and Marquez VE: Conformationally constrained analogues of diacylglycerol (DAG).31. Modulation of the biological properties of diacylglycerol lactones (DAG-lactones) containing rigid-rod Acyl groups separated from the core lactone by spacer units of different lengths. *J Med Chem.* 52: 3274-3283, 2009. (LMC)

Miranda TB, Cortez CC, Yoo CB, Liang G, Abe M, Kelly TK, Marquez VE, and Jones PA: DZNep is a global histone methylation inhibitor that reactivates developmental genes not silenced by DNA methylation. *Mol Cancer Ther.* 8(6): 1579-1588, 2009. (LMC)

Russ PL, Gonzalez-Moa MJ, Vu BC, Sigano DM, Kelley JA, Lai CC, Deschamps JR, **Hughes SH**, and **Marquez VE**: North- and South-bicyclo[3.1.0]hexene nucleosides: The effect of ring planarity on anti-HIV activity. *Chem Med Chem*. In press. (LMC)

Zhao XZ, Maddali K, **Marchand C**, **Pommier Y**, and **Burke Jr TR**: Diketoacid-gene HIV-1 integrase inhibitors containing enantiomeric arylamide functionality. *Bioorg. Med. Chem.* 17: 5318-5324, 2009. (LMC)

Molecular Targets Laboratory - James McMahon, Ph.D.

Henrich CJ, Robey RW, Takada K, Bokesch HR, **Bates SE**, Shukla S, **Ambudkar SV**, **McMahon JB**, and **Gustafson KR**: Botryllamides: Natural product inhibitors of ABCG2. *Chemical Biology*. In press. (MTL)

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

Wang J, Zuo X, Yu P, Byeon I-JL, Jung J, Wang X, Dyba M, Seifert S, Schwieters CD, Qin J, Groenborn AM, and **Wang Y-X**: Determination of multi-component protein structures in solution using global orientation and shape restraints. *JACS*. In press. (SBL)

Radiation Oncology Branch - Kevin Camphausen, M.D.

Baschnagel A, Russo A, Burgan WE, Carter D, Beam K, Palmieri D, **Stegg PS**, Tofilon P, and **Camphausen K**: Vorinostat enhances the radiosensitivity of a breast cancer brain metastatic cell line grown in vitro and as intracranial xenografts. *Mol. Cancer Ther.* 8: 1589-1595, 2009. (ROB)

Molecular Imaging Program - Peter Choyke, M.D.

There were no submissions reported this month.

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.

Jain L, Gardner ER, **Figg WD**, Chernick MS, and Kong HH: Hand-foot Skin Reaction not Mediated by Release of Sorafenib in Sweat. *Pharmacotherapy*. In press. (MOB)

Cook KM, Hilton ST, Mecinovic J, Motherwell WB, **Figg WD**, and Schofield CJ: The Epidithiodiketopiperazine Core Blocks the Interaction between HIF-1alpha and p300 by a Mechanism Involving Zinc binding Site Modification. *J. Biol. Chem.* In press. (MOB)

Jain L, Vargo C, Danesi R, Sissung T, Venitz J, Venzon D, Price DK, and **Figg WD**: Vascular Endothelial Growth Factor (VEGF) SNPs in Solid Tumors. *Mol. Cancer Therap.* In press. (MOB)

Gardner ER, Smith NF, **Figg WD**, and Sparreboom A: Influence of the Dual ABCB1 and ABCG2 Inhibitor Tariquidar on the Disposition of Oral Imatinib in Mice. *J Exp. Clin. Cancer Res.* In press. (MOB)

Gutierrez M, **Kummar S**, and **Giaccone G**: Next generation oncology drug development: opportunities and challenges. *Nature Rev Clin. Oncol.* 6(5): 259-265, 2009. (MOB)

Kummar S, **Doroshov JH**, Tomaszewski JE, Calvert AH, Lobbezoo M, and **Giaccone G**: Phase 0 Clinical Trials: Recommendations from the Task Force on Methodology for the Development of Innovative Cancer Therapies. *Eur. J. Cancer.* 45: 741-746, 2009. (MOB)

Czechinska A, **Giaccone G**, Rodriguez JA, Krzyt FAE, and Jimenez CR: Comparative proteomics analysis of caspase-9-protein complexes in untreated and cytochrome c / dATP stimulated lysates of NSCLC cells. *J. Proteomics.* 72(4): 575-585, 2009. (MOB)

Ceresa C, Giovannetti E, Voortman J, Laan AC, Honeywell R, **Giaccone G**, and Peters GJ: Bortezomib induces schedule-dependent modulation of gemcitabine pharmacokinetics and pharmacodynamics in non-small cell lung cancer and blood mononuclear cells. *Mol Cancer Ther.* In press. (MOB)

van Crujisen H, Gallegos Ruiz M, van der Valk P, de Gruijl TD, and **Giaccone G**: Tissue micro array analysis of ganglioside N-glycolyl GM3 expression and signal transducer and activator of transcription (STAT)-3 activation in relation to dendritic cell infiltration and microvessel density in non-small cell lung cancer. *BMC Cancer.* 9(1): 180, 2009. (MOB)

Hanuske AR, Lahn M, Musib LC, Weigang-Kohler K, Yilmaz E, Graefe T, Kuenen B, Thornton, McNealy P, and **Giaccone G**: Phase Ib safety and pharmacokinetic evaluation of daily and twice daily oral enzastaurin in combination with pemetrexed in advanced/metastatic cancer. *Ann. Oncol.* In press. (MOB)

Rajan A and **Giaccone G**: Treatment of advanced thymoma and thymic carcinoma. *Current Treatment Options in Oncology.* In press. (MOB)

Giaccone G, Zatloukal P, Roubec J, Floor K, Musil J, Kuta M, van Klaveren RJ, Chaudhary S, Gunther A, and Shamsili S: YM155 in patients with advanced, refractory, non-small cell lung cancer: a phase II, multicenter, open-label study. *J. Clin. Oncol.* In press. (MOB)

Soria JC, Shepherd FA, Douillard J-Y, Jurgen W, **Giaccone G**, Crino L, Cappuzzo F, Sharma S, Gross SH, Dimitrijevic S, Di Scala L, Gardner H, Nogova L, and Papadimitrakopoulou V. Efficacy of RAD001 (RAD001) in patients with advanced NSCLC previously treated with chemotherapy alone or with chemotherapy and EGFR inhibitors. *Ann. Oncol.* In press. (MOB)

Jackman DM, Miller VA, Cioffredi L-A, Yeap BY, Janne PA, Riely GJ, Gallegos Ruiz M, **Giaccone G**, Sequist LV, and Johnson BE: Impact of *EGFR* and *KRAS* mutations on clinical outcomes in previously untreated patients with advanced NSCLC treated with gefitinib or erlotinib: results of an online tumor registry of clinical trials. *Clin. Cancer Res.* In press. (MOB)

Giaccone G, Rajan A, Ruijter R, Smit E, van Groeningen C, and Hogendoorn PCW: Imatinib mesylate in patients with WHO B3 thymomas and thymic carcinomas. *J. Thorac. Oncol.* In press. (MOB)

van Riel JM, Petersa GJ, Mammatas LH, Honeywell RJ, Laan AC, Ruyter R, van den Berg FG, **Giaccone G**, and van Groeningen CJ: A phase I and pharmacokinetic study of gemcitabine given by 24-h hepatic arterial infusion. *Eur. J. Cancer.* 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.

Hendrickson RC, Cicinnati VR, Albers A, Dworacki G, Gambotto A, Pagliano O, Tuting T, Mayordomo JI, Visus C, **Appella E**, Shabanowitz J, Hunt DF, and Deleo AB: Identification of a 17beta-hydroxysteroid dehydrogenase type 12 pseudogene as the source of a highly restricted BALB/c Meth A tumor rejection peptide. *Cancer Immunol. Immunother.* In press. (LCB)

Orina JN, Calcagno AM, Wu C-P, Varma S, Shih J, Lin M, Eichler G, Weinstein JN, **Pommier Y**, **Ambudkar SV**, **Gottesman MM**, and Gillet J-P: Evaluation of current methods to analyze the expression profiles of ABC transporters yields an improved drug-discovery database. *Mol. Cancer Ther.* In press. (LCB)

Topisirovic I, Gutierrez GJ, Chen M, **Appella E**, Borden KLB, and Ronai ZA: Control of p53 multimerization by Ubc13 is JNK-regulated. *Proc. Nat. Acad. Sci. USA.* In press. (LCB)

Wallace GS, Cheng-Mayer C, Schito ML, Fletcher P, Miller Jenkins LM, Hayashi R, Neurath AR, **Appella E**, and Shattock RJ: HIV-1 nucleocapsid inhibitors impede *trans* infection in cellular and explant models and protect non-human primates from infection. J. Virol. 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.
There were no submissions reported this month.

Laboratory of Human Carcinogenesis - Curtis Harris, M.D.
There were no submissions reported this month.

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

Retroviral Replication Laboratory - Stephen Hughes, Ph.D.
Delviks-Frankenberry KA, Nikolenko GN, **Maldarelli F**, Hase S, Takebe Y, and **Pathak VK**: Subtype-specific differences in the HIV-1 reverse transcriptase connection subdomain CRF01_AE are associated with higher AZT resistance. J Virol. In press. (RRL)

Friew YN, Boyko V, **Hu WS**, and **Pathak VK**: Intracellular interactions between APOBEC3G, RNA, and HIV-1 Gag: APOBEC3G multimerization is dependent on its association with RNA. Retrovirology. 6: 56, 2009. (RRL)

Fujii K, Munshi U, Ablan SD, Demirov DG, Soheilian F, Nagashima K, Stephen AG, Fisher RJ, and **Freed EO**: Functional role of Alix in HIV-1 replication. Virology. In press. (RRL)

Moore MD and **Hu WS**: HIV-1 RNA dimerization: It takes two to tango. AIDS. 11: 91-102, 2009. (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.

Kaye DR, Storey BB, Proano JM, **Pinto PA, Linehan WM**, and Bratslavsky G: Outcomes of Partial Adrenalectomy: Results From a Comprehensive Literature Review. *J. Urology*. 181(4): 12, 2009. (UOB)

Linguraru MG, Wang S, Shah F, Gautam R, Peterson J, **Linehan WM**, and Summers RM: Computer-Aided Renal Cancer Quantification and Classification From Contrast-Enhanced CT Via Histograms of Curvature-Related Features. *Proceedings of IEEE Engineering in Medicine and Biology Society (EMBS) Annual International Conference*. In press. (UOB)

Linguraru MG, Gautam R, Peterson J, Yao J, **Linehan WM**, and Summers RM: Renal Tumor Quantification and Classification in Triple-Phase Contrast-Enhanced Abdominal CT. *Proceedings of the International Symposium on Biomedical Imaging (IEEE)*. In press. (UOB)

Sudarshan S, Sourbier C, Kong HS, Block K, Romero VV, Yang Y, Galindo C, Mollapour M, Scroggins B, Goode N, Lee MJ, Gourlay CW, **Trepel J, Linehan WM**, and **Neckers L**: Fumarate Hydratase Deficiency in Renal Cancer Induces Glycolytic Addiction and HIF-1{Alpha} Stabilization by Glucose-Dependent Generation of Reactive Oxygen Species. *Molecular and Cellular Biology*. 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 & Stuart Yuspa, MD

Merlino G: News & Views: Building the perfect beast: Complex mouse models teach surprisingly simple melanoma lessons. *Pig. Cell Melan. Res.* 22: 246-247, 2009. (LCBG)

Schultz JM, Khan SN, Ahmed ZM, Riazuddin S, Waraya AA, Chhatre D, Starost MF, Ploplis B, Buckley S, Velásquez D, Kabra M, Lee K, Hassan MJ, Ali G, Ansar M, Manju G, Wilcox ER, Ahmad W, **Merlino G**, Leal SM, Riazuddin S, Friedman TB, and Morell RJ: Noncoding mutations of *HGF* are associated with nonsyndromic hearing loss, DFNB39. *Am. J. Hum. Genet.* In press. (LCBG)

Esteve-Puig R, Canals F, Colomé N, **Merlino G**, and Recio JA: Uncoupling of the LKB1-AMPKa energy sensor pathway by growth factors and oncogenic BRAF. PLoS ONE. In press. (LCBG)

Day CP, Carter J, Bonomi C, Esposito D, Crise B, Ortiz-Conde B, Hollingshead M, and **Merlino G**: Lentivirus-mediated bifunctional cell labeling for *in vivo* melanoma study. Pig. Cell Melanoma Res. 22: 283-295, 2009. (LCBG)

Borojerdi JP, Ming J, Cooch C, Ward Y, Semino-Mora C, Yu M, Braun HM, Taylor BJ, **Poirier MC** and Olivero OA: Centrosomal amplification and aneuploidy induced by the antiretroviral drug AZT in hamster and human cells. Mutation Research. 665: 67-74, 2009. (LCBG)

Yu M, Ward Y, **Poirier MC** and Olivero OA: Centrosomal amplification induced by the antiretroviral nucleoside reverse transcriptase inhibitors lamivudine, stavudine and didanosine. Environmental and Molecular Mutagenesis. In press. (LCBG)

Walker DM, Kajon AE, Torres SM, Carter MM, McCash CL, Swenberg JA, Upton PB, Hardy AW, Olivero OA, Shearer GM, **Poirier MC** and Walker VE: WR1065 Mitigates AZT-ddl-induced mutagenesis and inhibits viral replication. Environmental and Molecular Mutagenesis. In press. (LCBG)

Hoenerhoff MJ, Chu I, Barkan D, Liu C-Y, Datta S, Dimiri GP and **Green JE**: BM1 cooperates with H-RAS to induce an aggressive breast cancer phenotype with brain metastases. Oncogene. In press. (LCBG)

Radiation Biology Branch - James Mitchell, Ph.D.

Moody TW, Switzer C, Santana-Flores W, Ridnour LA, Berna M, Thill M, Jensen RT, Sparatore A, Del Soldato P, Yeh GC, **Roberts DD**, **Giaccone G**, and **Wink DA**: Dithiolethione modified valproate and diclofenac increase E-cadherin expression and decrease proliferation of non-small cell lung cancer cells. Lung Cancer. In press. (RBB)

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.

Linehan WM, **Pinto PA**, Bratslavsky G, Pfaffenroth E, **Merino MJ**, Vocke CD, **Toro JR**, **Bottaro D**, **Neckers L**, Schmidt LS, and Srinivasan R: Hereditary kidney cancer: unique opportunity for disease-based therapy. Cancer. 115 (10 Suppl): 2252-2261, 2009. (LP)

Valera VA, Walter BA, **Linehan WM, Roberts, DD, and Merino MJ**: Proteomic analysis of formalin-fixed paraffin embedded (FFPE) samples: pitfalls and potentials. *Curr. Proteomics*. In press. (LP)

Yifeng J, Wu SL, Isenberg JS, Dai S, Sipes JM, Field L, Zeng B, Bandle RW, Ridnour LA, **Wink DA**, Ramchandran R, Karger BL, and **Roberts DD**: Thiolutin inhibits endothelial cell adhesion by perturbing Hsp27 interactions with components of the actin and intermediate filament cytoskeleton. *Cell Stress Chaperones*. In press. (LP)

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

There were no submissions reported this month.

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

Zurla C, Manzo C, Dunlap D, Lewis DE, **Adhya S**, and Finzi L: Direct demonstration and quantification of long-range DNA looping by the lambda bacteriophage repressor. *Nucleic Acids Res.* 37(9): 2789-2795, 2009. (LMB)

Hahn Y, Kim DS, **Pastan I**, and **Lee B**: Anoctamin and transmembrane channel-like proteins are evolutionarily related. *Intl. J. Mol. Med.* 24: 51-55, 2009. (LMB)

Nagata S, Ise T, and **Pastan I**: Fc receptor-like 3 protein expressed on IL-2 nonresponsive subset of human regulatory T cells. *J. Immunol.* 182: 7518-7526, 2009. (LMB)

Cancer & Developmental Biology Lab. - Alan Perantoni, Ph.D. (Acting Chief)

Seifert AW, **Yamaguchi TP**, and Cohn MJ: Functional and phylogenetic analysis shows that *Fgf8* is not involved in external genital development. *Development*. In press. (CDBL)

Goss AM, Tian Y, Cohen ED, Zhou D, Lu MM, Tsukiyama T, **Yamaguchi TP**, and Morrissey EE: *Wnt2a/2b* and *bcatenin* are necessary and sufficient to specify and program lung progenitors in foregut endoderm. *Dev. Cell*. In press. (CDBL)

Mackem S and **Lewandoski M**: Limb development takes a measured step toward systems analysis. *Sci. Signal.* 19: 33, 2009. (CDBL)

Diwan BA, Timofeeva O, Rice JM, Yang Y, Sharma N, Fortini ME, Wang H and **Perantoni AO**: Inheritance of susceptibility to induction of nephroblastoma in the noble rat. *Differentiation.* 77: 424-432, 2009. (CDBL)

Ehrlich D, Bruder E, Thome M, Gutt C, von Knebel Doeberitz M, Niggli F, **Perantoni A**, Bode M, and Koesters R: Nuclear accumulation of beta-catenin protein indicates frequent activation of Wnt-signaling in chemically-induced rat nephroblastomas. *Pediatr. Dev. Pathol.* In press. (CDBL)

Lewandoski M and **Mackem S**: Limb development: The rise and fall of retinoic acid. *Curr. Biol.* In press. (CDBL)

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

Kohn KW, **Aladjem MI**, Weinstein JN, and **Pommier Y**: Network architecture of signaling from uncoupled helicase-polymerase to cell cycle checkpoints and trans-lesion DNA synthesis. *Cell Cycle.* 8: 1-19, 2009. (LMP)

Shankavaram UT, Varma S, Kane D, Sunshine M, Chary KK, Reinhold WC, **Pommier Y**, and Weinstein JN: CellMiner: a relational database and query tool for the NCI-60 cancer cell lines. *BMC Genomics.* 10: 277, 2009. (LMP)

Solier S and **Pommier Y**: The apoptotic ring: a novel entity with phosphorylated histones H2AX and H2B and activated DNA damage response kinases. *Cell Cycle.* 8: 1853-1859, 2009. (LMP)

Zhang YW, Jones TL, Martin SE, Caplen NJ, and **Pommier Y**: Implication of checkpoint kinase-dependent up-regulation of ribonucleotide reductase R2 in DNA damage response. *J. Biol. Chem.* 284: 18085-18095, 2009. (LMP)

Lu J, **Steeg PS**, Price JE, Krishnamurthy S, Mani SA, Reuben J, Cristofanilli M, Dontu G, Bidaut L, Valero V, Hortobagyi GN, and Yu D: Breast cancer metastasis: challenges and opportunities. *Cancer Res.* 69: 4951-4953, 2009. (LMP)

Kumari D, Somma V, Nakamura AJ, **Bonner WM**, D'Ambrosio E, and Usdin K: The role of DNA damage response pathways in chromosome fragility in Fragile X syndrome. *Nucl. Acids Res.* pp. 1-8, 2009. (LMP)

Prodoehl MJ, Irving-Rodgers HF, **Bonner WM**, Sullivan TM, Micke GC, Gibson MA, Perry VE, and Rodgers RJ: Fibrillins and latent TGFbeta binding proteins in bovine ovaries of offspring following high or low protein diets during pregnancy of dams. *Mol. Cell Endocrinol.* 307: 133-141, 2009. (LMP)

Sordet O, Redon CE, Guirouilh-Barbat J, Smith S, Solier S, Douarre C, Conti C, Nakamura AJ, Das BB, Nicolas E, **Kohn KW**, **Bonner WM**, and **Pommier Y**: Ataxia telangiectasia mutated activation by transcription- and topoisomerase I-induced DNA double-strand breaks. *EMBO Rep.* In press. (LMP)

Pommier Y: DNA topoisomerase I inhibitors: chemistry, biology and interfacial inhibition. Chem. Rev. In press. (LMP)

Lee JH, Marshall JC, **Steeg PS**, and Horak CE: Altered gene and protein expression by Nm23-H1 in metastasis suppression. Mol. Cell Biochem. In press. (LMP)

Marshall JC, Lee JH, and **Steeg PS:** Clinical-translational strategies for the elevation of Nm23-H1 metastasis suppressor gene expression. Mol. Cell Biochem. In press. (LMP)

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

Hinrichs CS, Kaiser A, Paulos CM, Cassard L, Sanchez-Perez L, Heemskerk B, Wrzesinski C, Borman ZA, Muranski P, and **Restifo NP:** Type 17 CD8+ T cells display enhanced anti-tumor immunity. Blood. In press. (SB)

Klapper JA, Thomasian AA, Smith DM, Gorgas GC, Wunderlich JR, Smith FO, Hampson BS, **Rosenberg SA**, and Dudley ME: Single-pass, closed-system rapid expansion of lymphocyte cultures for adoptive cell therapy. J. Imm. Methods. 345: 90-99, 2009. (SB)

Smith FO, Klapper JA, Wunderlich JR, **Rosenberg SA**, and Dudley ME: Impact of a Recombinant fowlpox vaccine on the efficacy of adoptive cell therapy with tumor infiltrating lymphocytes in a patient with metastatic melanoma. J. Immunother. In press. (SB)

Schrump DS: Cytotoxicity Mediated by Histone Deacetylase Inhibitors in Cancer Cells: Mechanisms and Potential Clinical Implications. Clin Cancer Res. 15(12): 3947-3957, 2009. (SB)

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.

Higgins JP, Bernstein MB, and **Hodge JW:** Enhancing immune responses to tumor-associated antigens. Cancer Biol. Ther. 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.

Zimonjic DB, Zhou X, Lee JS, Ullmannova-Benson V, Tripathi V, **Thorgeirsson SS**, and **Popescu NC**: Acquired genetic and functional alterations associated with transforming growthfactor B type I resistance in Hep3B human hepatocellular carcinoma cell line. *J. Cell. Mol. Med.* In press. (LEC)

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

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

Durum SK and **Mazzucchelli RI**: Live from the Liver: hepatocyte Il-7. *Immunity.* 30: 320-321, 2009. (LMI)

Taylor K, Rolfe M, Kilanowski F, Pathania U, Reynolds N, Clarke D, Yang D, **Oppenheim J**, Samuel K, Howie S, Barran P, Macmillan D, Campopiano D, and Dorin J: Defr1 is allelic to Defb8 and chemoattractant for immature dendritic cells and CD4 T cells but does not act through chemokine receptor 6. *Eur J Immunol.* 39: 1353-1360, 2009. (LMI)

Shafer-Weaver KA, Watkins SK, Malyguine A, Alvord WG, Greenberg NM, and **Hurwitz AA**: Immunity to murine prostatic tumors: continuous provision of T cell help prevents CD8 T cell tolerance and activates tumor-infiltrating dendritic cells. *Cancer Res.* 69(15): 6256-6264, 2009. (LMI)

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

There were no submissions reported this month.

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.

Das R, Mariano J, Tsai YC, Kalathur RC, Kostova Z, Li J, Tarasov SG, McFeeters RL, Altieri AS, **Ji X, Byrd RA**, and **Weissman AM**: Allosteric Activation of E2-RING Finger-Mediated Ubiquitylation by a Structurally Defined Specific E2-Binding Region of gp78. *Mol. Cell.* 34: 674-685, 2009. (LPDS)

Kostova Z, Mariano JM, Scholz S, Koenig C and **Weissman AM**: A Ubc7p Binding Domain in Cue1p Activates Endoplasmic Reticulum-Associated Protein Degradation. *J Cell Science.* In press. (LPDS)

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.

There were no submissions reported this month.

Basic Research Laboratory

Fan H-Y, Liu Z, Shimada M, **Sterneck E, Johnson PF**, Hedrick SM and Richards JS: ERK1/2 in ovarian granulosa cells are essential for female fertility. *Science.* 324: 938-941, 2009. (BRL)

Sikder H, Zhao Y, Balato A, Fischelevich R, Singh IS, Gade P, Kalvakolanu DV, **Johnson PF** and Gaspari AA: A central role for transcription factor C/EBPbeta in regulating CD1d gene expression in human keratinocytes. *J. Immunol.* In press. (BRL)

Emeritus Scientists

There were no submissions reported this month.

SAIC Frederick

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

Burbelo PD, Leahy HP, Groot S, Bishop LR, Miley W, **Whitby D**, and Kovacs JA: A four antigen mixture containing V-cyclin for serological screening of HHV-8 infection. *Clin Vaccine Immunol.* 16: 621-627, 2009. (ACVP)

Li Q, Estes JD, Schlievert PM, Duan L, Brosnahan AJ, Southern PJ, Reilly CS, Peterson ML, Schultz-Darken N, Brunner KG, Nephew KR, Pambuccian S, **Lifson JD**, Carlis JV, and Haase AT: Glycerol monolaurate prevents mucosal SIV transmission. *Nature.* 458: 1034-1038, 2009. (ACVP)

Post K, Kankia B, Gopalakrishnan S, Yang V, Cramer E, Saladores P, **Gorelick RJ**, Guo J, Musier-Forsyth K, and Levin JG: Fidelity of plus-strand priming requires the nucleic acid chaperone activity of HIV-1 nucleocapsid protein. *Nucleic Acids Res.* 37: 1755-1766, 2009. (ACVP)

deSanjose S, Mbisa G, Perez-Alvarez S, Benavente Y, Sukvirach S, Hieu NT, Shin HR, Anh PT, Thomas J, Lazcano E, Matos E, Herrero R, Munoz N, Molano M, Franceschi S, and **Whitby D**: Geographic variation in the prevalence of Kaposi sarcoma-associated herpesvirus and risk factors for transmission. *J Infect Dis.* 199: 1449-1456, 2009. (ACVP)

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