

CCR MANUSCRIPT NOTIFICATION (OCTOBER 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.

Franchini G: HTLV-1 and HIV-1 "Accessory" proteins: A Misleading Misnomer. Mol Aspects Med. In press. (VB)

Van Prooyen N, Andresen V, Gold H, Bialuk I, Pise-Masison C, and **Franchini G:** Hijacking the T-cell communication network by the human T-cell leukemia/lymphoma virus type 1 (HTLV-1) p12 and p8 proteins. Mol Aspects Med. In press. (VB)

Cecchinato V and **Franchini G:** Th17 cells in pathogenic simian immunodeficiency virus infection of macaques. Curr Opin HIV AIDS. 5(2): 141-145, 2010. (VB)

Silic-Benussi M, Biasiotto R, Andresen V, **Franchini G**, D'Agostino DM, and Ciminale V: HTLV-1 p13, a small protein with a busy agenda. Mol Aspects Med. In press. (VB)

Van Prooyen N, Gold H, Andresen V, Schwartz O, Jones K, **Ruscetti F**, Lockett S, Gudla P, Venzon D, and **Franchini G:** The HTLV-1 p8 protein increases cellular conduits and virus transmission. Mol Aspects Med. In press. (VB)

CCR Nanobiology Program - Robert Blumenthal, Ph.D.

Colantonio S, Simpson JT, Fisher RJ, Yavlovich A, Belanger JM, Puri A, and **Blumenthal R:** Quantitative analysis of phospholipids using nanostructured laser desorption ionization targets. Lipids. 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.

Ludek OR, Wenlu G, and **Gildersleeve JC**: Activation of glycosyl trichloroacetimidates with perchloric acid on silica (HClO₄-SiO₂) provides enhanced alpha-selectivity. Carbohydrate Res. 345: 2074-2078, 2010. (CBL)

Radiation Oncology Branch - Kevin Camphausen, M.D.

There were no submissions reported this month.

Molecular Imaging Program - Peter Choyke, M.D.

Kakareka JW, McCann TE, Kosaka N, Mitsunaga M, Morgan NY, Pohida TJ, **Choyke PL**, and **Kobayashi H**: A Portable Fluorescence Camera for Testing Surgical Specimens in the Operating Room: Description and Early Evaluation. Mol Imaging Biol. In press. (MIP)

McCann TE, Kosaka N, Mitsunaga M, **Choyke PL**, **Gildersleeve JC**, and **Kobayashi H**: Biodistribution and excretion of monosaccharide-albumin conjugates measured with in vivo near-infrared fluorescence imaging. Bioconjug Chem. 21(10): 1925-1932, 2010. (MIP)

Housri N, Ning H, Ondos J, **Choyke PL**, **Camphausen K**, **Citrin D**, Arora B, Shankavaram U, and Kaushal A: Parameters Favorable to Intraprostatic Radiation Dose Escalation in Men with Localized Prostate Cancer. Int J Radiat Oncol Biol Phys. In press. (MIP)

Rosenblum LT, Kosaka N, Mitsunaga M, **Choyke PL**, and **Kobayashi H**: Optimizing quantitative in vivo fluorescence imaging with near-infrared quantum dots. Contrast Media Mol Imaging. In press. (MIP)

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

Crea F, Hurt EM, and **Farrar WL**: Clinical significance of Polycomb gene expression in brain tumors. Mol. Cancer. 9(1): 265, 2010. (LCP)

Bobbe G, Murphy G, Albert PS, Sansbury LB, Lanza E, Schatzkin A, **Colburn NH**, and Cross AJ: Serum cytokine concentrations, flavonol intake and colorectal adenoma recurrence in the Polyp Prevention Trial. Br J Cancer. In press. (LCP)

Carbarcas SM, Hurt EM, and **Farrar WL**: Defining the Molecular Nexus of Cancer, Type 2 Diabetes and Cardiovascular Disease. Curr Mol Med. In press. (LCP)

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

There were no submissions reported this month.

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

Smith NF, Mani S, Schuetz EG, Yasuda K, Sissung TM, **Bates SE, Figg WD**, and Sparreboom A: Induction of CYP3A4 by Vinblastine: Role of the Nuclear Receptor NR1I2(November). *Ann Pharmacother.* In press. (MOB)

Hulin-Curtis SL, Petit D, **Figg WD**, Hsing A, and Reichardt JKV: Finasteride Metabolism and Pharmacogenetics: New Approaches to Personalized Prevention of Prostate Cancer. *Future Oncol.* In press. (MOB)

Sissung TM, Danesi R, Kirland CT, Baum CE, Ockers SB, Stein EV, Steinberg SM, Price DK, and **Figg WD**: ER and CYP19 Polymorphisms versus Risk, Prognosis, and Therapeutic Outcome in Men with Prostate Cancer Treated with Doxetaxel-Based Therapy. *J. Clin. Endocrin. Metabol.* In press. (MOB)

Goodman PJ, Tangen CM, Kristal A, Thompson IM, Lucia MS, Platz EA, **Figg WD**, Hoque A, Hsing A, Neuhaus ML, Parnes H, Reichardt JKV, Santella RM, Till C, and Lippman SM: Transition of a Clinical Trial into Translational Research: The Prostate Cancer Prevention Trial Experience. *Cancer Prevent.* In press. (MOB)

Figg WD and Chau C (Eds.): *Getting into Pharmacy School*, 3rd Edition. New York, NY, 2011. In press. (MOB)

Price DK, Chau CH, Till C, Goodman PJ, Baum CE, Ockers SB, English BC, Minasian L, Parnes HL, Hsing AW, Reichardt JK, Hoque A, Tangen CM, Kristal AR, Thompson IM, and **Figg WD**: Androgen Receptor CAG Repeat Length and Association With Prostate Cancer Risk: Results From the Prostate Cancer Prevention Trial. *J Urol.* In press. (MOB)

Sharifi N, Qi J, Bane S, Sharma S, Li R, Robey R, **Figg WD, Farrar WL**, and Kingston DG: Survivin Is Not Induced by Novel Taxanes. *Mol Pharm.* In press. (MOB)

Freedman AN, Sansbury LB, **Figg WD**, Potosky AL, Weiss Smith SR, Khoury MJ, Nelson SA, Weinshilboum RM, Ratain MJ, McLeod HL, Epstein RS, Ginsburg GS, Schilsky RL, Liu G, Flockhart DA, Ulrich CM, Davis RL, Lesko LJ, Zineh I, Randhawa G, Ambrosone CB, Relling MV, Rothman N, Xie H, Spitz MR, Ballard-Barbash R, **Doroshov JH**, and Minasian LM: Cancer Pharmacogenomics and Pharmacoepidemiology: Setting a Research Agenda to Accelerate Translation. *J Natl Cancer Inst.* In press. (MOB)

Voortman J, Goto A, Mendiboure J, Sohn JJ, Schetter AJ, Saito M, Dunant A, Pham TC, Petrini I, Lee A, Khan MA, Hainaut P, Pignon JP, Brambilla E, Popper HH, Filipits M, **Harris CC**, and **Giaccone G**: MicroRNA Expression and Clinical Outcomes in Patients Treated with Adjuvant Chemotherapy after Complete Resection of Non-Small Cell Lung Carcinoma. *Cancer Res.* In press. (MOB)

Zucali PA, Petrini I, Lorenzi E, Merino M, Cao L, Di Tommaso L, Lee HS, Incarbone M, Walter BA, Simonelli M, Roncalli M, Santoro A, and **Giaccone G**: Insulin-like growth factor-1 receptor and phosphorylated AKT-serine 473 expression in 132 resected thymomas and thymic carcinomas. *Cancer.* 116(20): 4686-4695, 2010. (MOB)

Chen M, Voeller D, **Marquez VE**, Kaye FJ, **Steeg PS**, **Giaccone G**, and Zajac-Kaye M: Enhanced growth inhibition by combined DNA methylation/HDAC inhibitors in lung tumor cells with silenced CDKN2A. *Int J Oncol.* 37(4): 963-971, 2010. (MOB)

Kelly RJ, Carter C, and **Giaccone G**: Personalizing therapy in an epidermal growth factor receptor-tyrosine kinase inhibitor-resistant non-small-cell lung cancer using PF-00299804 and trastuzumab. *J Clin Oncol.* 28(28): e507-510, 2010. (MOB)

Rajan A and **Giaccone G**: Targeted therapy for advanced thymic tumors. *J Thorac Oncol.* 5(10 Suppl 4): S361-364, 2010. (MOB)

Giaccone G: Epithelial tumors of the thymic gland are rare malignancies. Foreword. *J Thorac Oncol.* 5(10 Suppl 4):S259, 2010. (MOB)

Duffy A and **Greten T**: Developing better treatments in hepatocellular carcinoma. *Expert Rev Gastroenterol Hepatol.* 4(5): 551-560, 2010. (MOB)

Greten TF and Korangy F: Radiofrequency ablation for the treatment of HCC--maybe much more than simple tumor destruction? *J Hepatol.* 53(4): 775-776, 2010. (MOB)

Han JJ, Yu M, Houston N, Steinberg SM, and **Kohn EC**: Progranulin is a potential prognostic biomarker in advanced epithelial ovarian cancers. *Gynecol Oncol.* In press. (MOB)

Mailankody S, Mena E, Yuan CM, Balakumaran A, **Kuehl WM**, and **Landgren O**: Molecular and biologic markers of progression in monoclonal gammopathy of undetermined significance to multiple myeloma. *Leuk Lymphoma.* In press. (MOB)

Landgren O, Pfeiffer RM, Kristinsson SY, and Björkholm M: Survival Patterns in Patients With Hodgkin's Lymphoma With a Pre-Existing Hospital Discharge Diagnosis of Autoimmune Disease. *J Clin Oncol.* 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.

Hearing VJ: The genetics of melanosome structure and function. Borovansky J and Riley PA (Eds.). In: Melanins & Melanogenesis. Oxford: Wiley-Blackwell. In press. (LCB)

Kannan P, Telu S, Shukla S, **Ambudkar S**, Pike V, Halldin C, **Gottesman MM**, Innis R, and Hall M: The “specific” P-glycoprotein inhibitor tariquidar is also a substrate and an inhibitor for breast cancer resistance protein (BCRP/ABCG2). ACS Chem Neurosci. In press. (LCB)

Kornhauser A, Coelho SG, and **Hearing VJ:** Clinical and cosmetic applications of hydroxy acids. Clin Cosmet Invest Dermatol. In press. (LCB)

Rutledge R, Esser L, Ma J, and **Xia D:** Toward Understanding the Mechanism of Action of the Yeast Multidrug Resistance Transporter Pdr5p: A Molecular Modeling Study. J Struc 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.

Schneider G, Guttman P, Heim S, Rehbein S, Mueller F, Nagashima K, Heymann JB, Müller WG, and **McNally JG:** Three dimensional cellular ultrastructure resolved by X-ray microscopy. Nat. Methods. In press. (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.

Gandhi RT, Zheng L, Bosch RJ, Chan ES, Margolis DM, Read S, Kallungal B, Palmer, S, Medvik K, Lederman MM, Alatrakchi N, Jacobson JM, Wiegand A, Kearney M, Coffin JM, Mellors JW, Eron JJ, and AIDS Clinical Trials Group A5244 team: The effect of raltegravir intensification on low-level residual viremia in HIV-infected patients on antiretroviral therapy: A randomized controlled trial. PLoS Med. 7 pii: e1000321, 2010. (HVIB; PI: **Hughes SH**)

Kearney M and Maldarelli F: Editorial commentary: Current status of xenotropic murine leukemia virus-related retrovirus in chronic fatigue syndrome and prostate cancer: Reach for a scorecard, not a prescription pad. *J. Infect. Dis.* 202: 1463-1466, 2010. (HVIB; PI: **Hughes SH**)

Mens H, Kearney M, Maldarelli F, Mellors JW, Benfield T, and Coffin JM: HIV-1 continues to replicate and evolve in patients with natural control of HIV infection. *J. Virol.* 84: 12971-12981, 2010. (HVIB; PI: **Hughes SH**)

Retroviral Replication Laboratory - Stephen Hughes, Ph.D.

Aloia AL, Sfanos KS, Isaacs WB, Zheng Q, Maldarelli F, De Marzo AM, and **Rein A**: XMRV: A new virus in prostate cancer? *Cancer Res.* 70: 10028-10033, 2010. (RRL)

Chung S, Rausch JW, and **Le Grice SFJ**: Targeting HIV reverse transcriptase-associated ribonuclease H function. Kozlov A (Ed.). In: Proceedings of the 19th International Conference on AIDS, Cancer and Public Health, St. Petersburg, Russia, In press. (RRL)

Fledderman E, Fujii K, Ghanam RH, Waki K, Prevelige P, **Freed EO**, and Saad JS: Myristate exposure in the HIV-1 matrix protein is modulated by pH. *Biochemistry.* 49: 9551-9562, 2010. (RRL)

Gherghe C, Lombo T, Leonard CW, Datta SAK, Bess Jr JW, Gorelick RJ, **Rein A**, and Weeks KM: Definition of a high-affinity Gag recognition structure mediating packaging of a retroviral RNA genome. *Proc. Natl. Acad. Sci. USA.* 107: 19248-19253, 2010. (RRL)

Legiewicz M, Pilkington GR, Purzycka KJ, Zolotukhin AS, Mitchell M, Uranishi H, Bear J, **Pavlakis GN**, **Le Grice SFJ**, and **Felber BK**: The RNA transport element of the murine musD retrotransposon requires long-range intramolecular interactions for function. *J. Biol. Chem.* 285: 42097-42104, 2010. (RRL)

Liu S, Harada BT, Miller JT, **Le Grice SFJ**, and Zhuang X: Initiation complex dynamics direct the transitions between distinct phases of early HIV reverse transcription. *Nat. Struct. Mol. Biol.* 17: 1453-1460, 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*. (Lever AML, Jeang K-T, and Berkhout B, Eds.) World Scientific Publishing, pp. 307-345, 2010. (RRL)

Rein A: Nucleic acid chaperone activity of retroviral Gag proteins. *RNA Biol.* 7: 61-66, 2010. (RRL)

Smith JL and **Pathak VK**: Identification of specific determinants of human APOBEC3F, APOBEC3C, APOBEC3DE, and African green monkey APOBEC3F that interact with HIV-1 Vif. *J. Virol.* 84: 12599-12608, 2010. (RRL)

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

Andrei D, Salmon D, Donzelli S, Wahab A, Klose J, Citro M, Saavedra J, **Wink D**, Miranda K, and **Keefer LK**: Dual mechanism of HNO generation by a nitroxyl prodrug of the diazeniumdiolate (NONOate) class. J. Am. Chem. Soc. In press. (LCC)

Maciag AE, Chakrapani H, Saavedra JE, Morris NL, Holland RJ, Kosak KM, Shami PJ, Anderson LM, and **Keefer LK**: The nitric oxide prodrug JS-K is effective against non-small cell lung cancer cells in vitro and in vivo: Involvement of reactive oxygen species. J. Pharmacol. Exp. Ther. 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.

There were no submissions reported this month.

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.

Thomas M, Lieberman J and **Lal A**: Desperately seeking microRNA targets. Nat Struct and Mol Biol. 17(10): 1169-1174, 2010. (GB)

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

Malik M and **Yuspa SH**: "Going green "against skin cancer. Pigment Cell Melanoma Res. 23: 725-728, 2010. (LCBG)

Kim HK, Ju Choi IL, Kim CG, Kim HS, Kook M-C, Oshima A, Yamada Y, Arao T, Hishio K, Michalowski AM and **Green JE**: A three-gene predictor of Clinical response of gastric cancer patients to Cisplatin and Fluorouracil chemotherapy. J Pharmacogenomics. In press. (LCBG)

Reindl W, Bowen BP, Michael A, Balamotis MA, **Green JE** and Northen TR: Multivariate analysis of a 3D mass spectral image for examining tissue heterogeneity. Integrative Biology. In press. (LCBG)

Bing Liu B, Liu L, Tsykin A, Goodall GJ, **Green JE**, Zhu Z, Kim CH and Li J: Identifying functional miRNA-mRNA regulatory modules with correspondence latent dirichlet allocation. Genome Biol. In press. (LCBG)

Kohn EA, Du Z, Sato M, Van Schyndle CM, Welsh MA, Yang YA, Stuelten CH, Tang B, Ju W, Bottinger EP and **Wakefield LM**: A novel approach for the generation of genetically modified mammary epithelial cell cultures yields new insights into TGF-beta signaling in the mammary gland. Breast Cancer Res. 12(5): R83, 2010. (LCBG)

Raifman O, Kolusheva S, El Kazzouli S, Sigano DM, Kedei N, Lewin NE, Lopez-Nicolas R, Ortiz-Espin A, Gomez-Fernandez JC, **Blumberg PM**, **Marquez VE**, Corbalan-Garcia S, and Jelinek R: Membrane-surface anchoring of charged diacylglycerol-lactones correlates with biological activities. Chem Bio Chem. 11: 2003-2009, 2010. (LCBG)

Kang DW, Kim YS, Lim KS, Kim MS, Lee J, Pearce LV, Pavlyukovets VA, Tao AK, Lang-Kuhs KA and **Blumberg PM**: Halogenation of 4-hydroxy/amino-3-methoxyphenyl acetamide TRPV1 agonists showed enhanced antagonism to capsaicin. Bioorg.Med.Chem. In press. (LCBG)

DeCicco-Skinner KL, Trovato EL, Simmons JK, Lepage P and **Wiest JS**: Loss of tumor progression locus2 (Tpl2) enhances tumorigenesis and inflammation in two-stage carcinogenesis. Oncogene. 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.

Balamurugan K, Wang J-M, Tsai H-H, Sharan S, Anver M, Leighty R, and **Sterneck E**: The Tumour Suppressor C/EBPdelta Inhibits FBXW7 Expression and Promotes Mammary Tumour Metastasis. Embo J. In press. (LCDS)

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

Kaur S, Martin-Manso G, Pendrak ML, Garfield SH, Isenberg JS, and **Roberts DD**: Thrombospondin-1 inhibits vascular endothelial growth factor receptor-2 signaling by disrupting its association with CD47. J. Biol. Chem. In press. (LP)

Mansoor A, Pittaluga S, Beck PL, **Wilson WH**, Ferry JA, and **Jaffe ES**: NK-cell enteropathy: A benign NK-cell lymphoproliferative disease mimicking intestinal lymphoma - clinicopathological features and follow-up in a unique case series. *Blood*. In press. (LP)

Monjazeb AM, Riedlinger G, Aklilu M, Geisinger KR, Mishra G, Isom S, Clark P, Levine EA, and Blackstock AW: Outcomes of patients with esophageal cancer staged with [18F]fluorodeoxyglucose positron emission tomography (FDG-PET): Can postchemoradiotherapy FDG-PET predict the utility of resection? *J. Clin. Oncol.* In press. (LP; PI: **C Oberholtzer**)

Navarathna DHMLP, Das A, Morschhäuser J, Nickerson KW, and **Roberts DD**: Dur3 is the major urea transporter in *Candida albicans* and is co-regulated with the urea amidolyase Dur1, 2. *Microbiology*. In press. (LP)

Oschlies I, Burkhardt B, Salaverria I, Rosenwald A, d'Amore ES, Szczepanowski M, Koch K, Hansmann ML, Stein H, Möller P, Reiter A, Zimmermann M, Rosolen A, Siebert R, **Jaffe ES**, and Klapper W: Clinical, pathological and genetic features of primary mediastinal large B-cell lymphomas and mediastinal gray zone lymphomas in children. *Haematologica*. In press. (LP)

Valera VA, Li-Ning, TE, Walter BA, **Roberts DD**, **Linehan WM**, and **Merino MJ**: Protein expression profiling in the spectrum of renal cell carcinomas. *Cancer*. In press. (LP)

Yao M, **Roberts DD**, and Isenberg JS: Thrombospondin-1 inhibition of vascular smooth muscle cell responses occurs via modulation of both cGMP and cAMP. *Pharmacol. Res.* In press. (LP)

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

Chinn LW, Tang M, Kessing BD, **Lautenberger JA**, Troyer JL, Malasky MJ, McIntosh C, Goedert JJ, Bream JH, Buchbinder SP, Gomperts ED, Kirk GD, and **O'Brien SJ**: Genetic associations of variants in genes encoding HIV-dependency factors (HDFs) required for HIV-1 infection. *J. Infect. Dis.* In press. (LGD)

Polina P, Johnson W, Roos C, Seuánez HN, Horvath JE, Moreira MAM, Kessing B, Pontius J, Roelke M, Rumpel Y, Schneider MPC, Silva A, **O'Brien SJ** and Pecon-Slattery J: A molecular phylogeny of living primates. *PLOS Genetics*. In press. (LGD)

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

McCullen CA, Benhammou JN, Majdalani N, and **Gottesman S**: Mechanism of positive regulation by DsrA and RprA small noncoding RNAs pairing increases translation and protects rpoS mRNA from degradation. *J. Bacteriol.* 192: 5559-5571, 2010. (LMB)

Guigon CJ, Kim DW, Zhu X, Zhao L, and **Cheng SY**: Tumor suppressor action of liganded thyroid hormone receptor beta by direct repression of beta-catenin gene expression. *Endocrinology*. 151: 5528-5536, 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.

Solier S, Barb J, Zeeberg BR, Varma S, Ryan MC, **Kohn KW**, Weinstein JN, Munson PJ, and **Pommier Y**: Genome-wide analysis of novel splice variants induced by topoisomerase I poisoning shows preferential occurrence in genes encoding splicing factors. *Cancer Res.* 70: 8055-8065, 2010. (LMP)

Das BB, Dexheimer TS, Maddali K, and **Pommier Y**: Role of tyrosyl DNA phosphodiesterase (TDP1) in mitochondria. *Proc. Natl. Acad. Sci. USA*. In press. (LMP)

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

Feldman SA, Goff SL, Xu H, Black MA, Kochenderfer JN, Johnson LA, Yang JC, Wang Q, Parkhurst MR, Cross SB, Morgan RA, Cornetta K, and **Rosenberg SA**: Rapid Production of Clinical-Grade Gammaretroviral Vectors in Expanded Surface Roller Bottles using a "Modified" Step-Filtration Process for Clearance of Packaging Cell. *Hum Gene Ther.* In press. (SB)

Goff SL, Johnson LA, Black MA, Xu H, Zheng Z, Cohen CJ, Morgan RA, **Rosenberg SA**, and Feldman SA: Enhanced receptor expression and in vitro effector function of a murine-human hybrid MART-1-reactive T cell receptor following a rapid expansion. *Cancer Immunol Immunother.* 59(10): 1551-1560, 2010. (SB)

Dudley ME, Gross CA, Langan MM, Garcia MR, Sherry RM, Yang JC, Phan GQ, Kammula US, Hughes MS, **Citrin DE**, Restifo NP, Wunderlich J, Prieto PA, Hong JJ, Langan RC, Zlott DA, Morton KE, White DE, Laurencot C, and **Rosenberg SA**: CD8+ enriched "young" tumor infiltrating lymphocytes can mediate regression of metastatic melanoma. *Clin. Can. Res.* In press. (SB)

Royal RE, Levy C, Turner K, Mathur A, Hughes M, Kammula US, Sherry RM, Topalian SL, Yang JC, Lowy I, and **Rosenberg SA**: Phase 2 trial of single agent Ipilimumab (anti-CTLA-4) for locally advanced or metastatic pancreatic adenocarcinoma. *J Immunoth.* 33(8): 828-833, 2010. (SB)

Mathur A, Kemp CD, Dutta U, Baid S, Ayala A, Chang RE, Steinberg SM, Papademetriou V, Lange E, Libutti SK, Pingpank JF, Alexander HR, Phan GQ, Hughes M, **Linehan WM**, **Pinto PA**, Stratakis CA, and **Kebebew E**: Consequences of adrenal venous sampling in primary hyperaldosteronism and predictors of unilateral adrenal disease. *J Am Coll Surg.* 211(3): 384-390, 2010. (SB)

Mathur A, Weng J, Moses W, Steinberg SM, Rahbari R, Kitano M, Khanafshar E, Ljung B, Duh Q, Clark OH, and **Kebebew E**: A prospective trial evaluating the accuracy of using combined clinical factors and candidate diagnostic markers to refine the accuracy of thyroid fine needle aspiration biopsy. *Surgery.* In press. (SB)

Rahbari R, Mathur A, Kitano M, Guerrero M, Shen WT, Duh Q, Clark OH, and **Kebebew E**: Prospective randomized trial of ligasure versus harmonic hemostasis technique in thyroidectomy. *Annals of Surgical Oncol.* In press. (SB)

Patterson EE, Holloway A, Weng J, **Fojo T**, and **Kebebew E**: miRNA profiling of adrenocortical tumors reveals miR-483-5p as a marker of malignancy. *Cancer.* In press. (SB)

Guerrero MA and **Kebebew E**: Adrenocortical carcinoma and synchronous malignancies. *J Cancer.* 1: 108-111, 2010. (SB)

Vriens MR, Moses W, Weng J, Peng M, Griffin A, Bleyer A, Pollock BH, Indelicato DJ, Hwang J and **Kebebew E**: Clinical and molecular features of papillary thyroid cancer in adolescents and young adults. *Cancer.* In press. (SB)

Moses W, Weng J, Sansano I, Peng M, Khanafshar E, Ljung BM, Duh QY, Clark OH and **Kebebew E**: Molecular testing for somatic mutations improves the accuracy of thyroid fine-needle aspiration biopsy. *World J Surg.* 34(11): 2589-2594, 2010. (SB)

Guerrero MA, Suh I, Vriens MR, Shen WT, Gosnell J, **Kebebew E**, Duh QY, and Clark OH: Age and tumor size predicts lymph node involvement in Hürthle Cell Carcinoma. *J Cancer.* 1: 23-26, 2010. (SB)

Chudova D, Wilde JI, Wang ET, Wang H, Rabbee N, Egidio CM, Reynolds J, Tom E, Pagan M, Ted Rigl C, Friedman L, Wang CC, Lanman RB, Zeiger M, **Kebebew E**, Rosai J, Fellegara G, Livolsi VA, and Kennedy GC: Molecular Classification of Thyroid Nodules Using High-Dimensionality Genomic Data. *J Clin Endocrinol Metab.* In press. (SB)

Kerkar SP, Muranski P, Kaiser A, Boni A, Sanchez-Perez L, Yu Z, Palmer DC, Reger RN, Borman ZA, Zhang L, Morgan RA, Gattinoni L, **Rosenberg SA**, **Trinchieri G**, and **Restifo NP**: Tumor-specific CD8+ T cells expressing interleukin-12 eradicate established cancers in lymphodepleted hosts. *Cancer Res.* 70(17): 6725-6734, 2010. (SB)

Kerkar SP, Kemp CD, and **Avital I**: Liver resections in metastatic gastric cancer. *HPB (Oxford)*. 12(9): 589-596, 2010. (SB)

Xi S, Yang M, Tao Y, Xu H, Shan J, Inchauste S, Zhang M, Mercedes L, Hong J, Rao M, and **Schrump DS**: Cigarette Smoke Induces C/EBP- β -Mediated Activation of miR-31 in Normal Human Respiratory Epithelia and Lung Cancer Cells. *PLoS One*. In press. (SB)

Chinnasamy D, Yu Z, Theoret MR, Zhao Y, Shrimali RK, Morgan RA, Feldman SA, **Restifo NP**, and **Rosenberg SA**: Gene therapy using genetically modified lymphocytes targeting VEGFR-2 inhibits the growth of vascularized syngenic tumors in mice. *J Clin Invest*. In press. (SB)

Mammary Biology & Tumorigenesis Lab – David Salomon, Ph.D. (Acting Lab Chief)

There were no submissions reported this month.

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

Barda-Saad M, Shirasu N, Pauker HM, Hassan N, Perl O, Balbo A, Yamaguchi H, Houtman JCD, **Appella E**, Schuck P, and **Samelson LE**: Cooperative interactions at the SLP-76 complex are critical for actin polymerization. *EMBO J*. 29: 2315-2328, 2010. (LCMB)

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

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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.

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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.

Salcedo R, Worschech A, Cardone M, Jones Y, Gyulai Z, Dai RM, Wang E, Ma W, Haines D, O'Huigin C, Marincola FM, and **Trinchieri G**: MyD88-mediated signaling prevents development of adenocarcinomas of the colon: role of interleukin 18. *J Exp Med.* 207: 1625-1636, 2010. (LEI)

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

Moslehi R, Signore C, Tamura D, Mills JL, DiGiovanna JJ, Tucker MA, Troendle J, Ueda T, Boyle J, Khan SG, Oh K-S, Goldstein AM and **Kraemer KH**: Adverse Effects of Trichothiodystrophy DNA Repair and Transcription Gene Disorder on Human Fetal Development. *Clinical Genetics.* 77: 365-373, 2010. (DB)

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Mouse Cancer Genetics Program - Terry Van Dyke, 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 X, Meyers C, Guo M, and **Zheng Z-M**: Up-Regulation of p18Ink4c Expression by Oncogenic HPV E6 via p53-miR-34a Pathway. *Internat. J Cancer*. In press. (HAMB)

Basic Research Laboratory

There were no submissions reported this month.

Emeritus Scientists

Victor Marquez

Eoff RL, McGrath CE, Maddukuri L, Salamanca-Pinzon SG, **Marquez VE**, Marnett LJ, Guengerich FP, and Egli M: Selective modulation of DNA polymerase activity by fixed-conformation nucleoside analogues. *Angew Chem Int Ed*. 49: 7481-7485, 2010. (CBL)