

## CCR MANUSCRIPT NOTIFICATION (DECEMBER 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.**

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.**

Xiaobing Z, Wang J, Yu P, Eyster D, Xu H, Starich MR, Tiede DM, Simon AE, Kasprzak W, Schwieters CD, **Shapiro BA**, and **Wang YX**: The solution structure of the cap-independent translational enhancer and ribosome binding element in the 3' UTR of Turnip Crinkle virus. Proc. Natl. Acad. Sci USA. In press. (SBL)

#### **Molecular Targets Laboratory - James McMahon, Ph.D.**

There were no submissions reported this month.

#### **Chemical Biology Laboratory - Joel Schneider, Ph.D.**

Raifman O, Kolusheva S, Comin MJ, Kedei N, Lewin NE, **Blumberg PM**, **Marquez VE**, and Jelinek R: Membrane anchoring of diacylglycerol lactones substituted with rigid hydrophobic acyl domains correlates with biological activities. FEBS. 277: 233-243, 2010. (CBL)

Hobaika Z, Zargarian L, Maroun RG, Mauffret O, **Burke Jr TR**, and Femandjian S: HIV-1 integrase and virus and cell DNAs: Complex formation and perturbation by inhibitors of integration. Neurochem Res. In press. (CBL)

#### **Radiation Oncology Branch - Kevin Camphausen, M.D.**

There were no submissions reported this month.

## **Molecular Imaging Program - Peter Choyke, M.D.**

Kosaka N, Ogawa M, Paik DS, Paik CH, **Choyke PL**, and **Kobayashi H**: Semiquantitative assessment of the microdistribution of fluorescence-labeled monoclonal antibody in small peritoneal disseminations of ovarian cancer. *Cancer Sci.* In press. (MIP)

Mehndiratta A, Knopp MV, Zechmann CM, Owsijewitsch M, von Tengg-Kobligk H, Zamecnik P, Kauczor HU, **Choyke PL**, and Giesel FL: Comparison of diagnostic quality and accuracy in color-coded versus gray-scale DCE-MR imaging display. *Int J Comput Assist Radiol Surg.* 4(5): 457-462, 2009. (MIP)

Alford R, Simpson HM, Duberman J, Hill GC, Ogawa M, Regino C, **Kobayashi H**, and **Choyke PL**: Toxicity of organic fluorophores used in molecular imaging: literature review. *Mol. Imaging.* 8(6): 341-354, 2009. (MIP)

**Kobayashi H**, Ogawa M, Alford R, **Choyke PL**, and Urano Y: New Strategies for Fluorescent Probe Design in Medical Diagnostic Imaging. *Chem Rev.* In press. (MIP)

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

There were no submissions reported this month.

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

Kreisl TN, Kotliarova S, Butman JA, Albert PS, Kim L, Musib L, Thornton DE, **Fine HA**: A Phase I/II Trial of Enzastaurin in Patients with Recurrent High – Grade Gliomas. *Neuro Oncology.* In press. (NOB)

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

Baum C, Ockers SB, English BC, Price DK, Sartor O, and **Figg WD**: Androgen Receptor Sequence and Variations in Several Common Prostate Cancer Cell Lines. *Cancer Bio. Ther.* In press. (MOB)

**Figg WD**, Woo S, Zhu W, **Chen X**, Ajiboye A, Steinberg SM, Price DK, **Gulley JL**, Arlen PM, and **Dahut WL**: A Phase I Clinical Study of High Dose Ketoconazole plus Weekly Docetaxel in Metastatic Castration Resistant Prostate Cancer. *J. Urol.* In press. (MOB)

Jain L, Woo S, **Dahut WL, Kohn EC, Kummar S, Yarchoan R, Giaccone G**, Venitz J, and **Figg WD**: Population Pharmacokinetics of Sorafenib in Patients with Solid Tumors using Clinical and Pharmacogenetic Patient Covariates. Clin. Pharmacol. Therap. 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.**

Choi W, Miyamura Y, Wolber R, Smuda C, Reinhold W, Liu H, Kolbe L, and **Hearing VJ**: Regulation of human skin pigmentation in situ by repetitive UV exposure - Molecular characterization of responses to UVA and/or UVB. J. Invest. Dermatol. In press. (LCB)

Coelho SG and **Hearing VJ**: Hypothesis: UVA tanning is involved in the increased incidence of skin cancers in fair-skinned young women. Pigment Cell Melanoma Res. In press. (LCB)

Hoashi T, Sato S, Yamaguchi Y, Passeron T, Tamaki K, and **Hearing VJ**: Glycoprotein nonmetastatic melanoma protein b (GPNMB), a melanocytic cell marker, is a melanosome-specific and proteolytically released protein. FASEB J. In press. (LCB)

Kucka M, Kretschmannova K, Murano T, Wu C-P, Zemkova H, **Ambudkar SV** and **Stojilkovic SS**: Dependence of multidrug resistance protein-mediated cyclic nucleotide efflux on the background sodium conductance. Mol. Pharmacol. 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.**

**McNally JG** and Mazza D: Fractal geometry in the nucleus. EMBO J. In press. (LRBGE)

Mathas S and **Misteli T**: The Dangers of Transcription. Cell.139:1047-1049, 2009. (LRBGE)

Meaburn KJ, Gudla PR, Khan S, Lockett SJ, and **Misteli T**: Disease-specific gene repositioning in breast cancer. J Cell Biol. 187: 801-812, 2009. (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.**

There were no submissions reported this month.

#### **Retroviral Replication Laboratory - Stephen Hughes, Ph.D.**

There were no submissions reported this month.

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

Nandurdikar RS, Maciag AE, Hong S, Chakrapani H, Citro ML, **Keefer LK**, and Saavedra JE: Biocompatible nitric oxide prodrugs. *Organic Letters*. In press. (LCC)

Kumar V, Hong SY, Maciag AE, Saavedra JE, Adamson DH, Prud'homme RK, **Keefer LK**, and Chakrapani H: Stabilization of the Nitric Oxide (NO) Prodrugs and Anti-Cancer Leads, PABA/NO and Double JS-K through Incorporation into PEG-Protected Nanoparticles. *Mol. Ther.* In press. (LCC)

Zabirnyk O, Liu W, Khalil S, Sharma A, and **Phang JM**: Oxidized low-density lipoproteins upregulate proline oxidase to initiate ROS-dependent autophagy. *Carcinogenesis*. In press. (LCC)

Kiziltepe T, Anderson KC, Kutok JL, Jia JL, Saavedra JE, **Keefer LK**, and Shami PJ: JS-K has Potent Anti-Angiogenic Activity *In Vitro* and Inhibits Tumor Angiogenesis in a Multiple Myeloma Model *In Vivo*. *J of Pharm and Pharm.* 62: 145-151, 2009. (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.**

Liu NW, Khurana K, Sudarshan S, **Pinto PA**, **Linehan WM**, and **Bratslavsky G**: Repeat Partial Nephrectomy on the Solitary Kidney: Surgical, Functional, and Oncologic Outcomes. *J. Urology*. In press. (UOB)

Singer EA and **Bratslavsky G**: Management of Locally Recurrent Kidney Cancer. *Current Urology Reports*. In press. (UOB)

**Bratslavsky G**, Rosner I, and **Linehan WM**: Von Hippel-Lindau Disease. In: 5 Minute Urology Consult. L. Gomella (Ed.), 2nd Edition: Wolterkluwer/Lippincott Williams & Wilkins. In press. (UOB)

Hasumi Y, Baba M, Ajima R, Hasumi H, Valera VA, Klein ME, Haines DC, **Merino MJ**, Hong SB, **Yamaguchi TP**, Schmidt LS, and **Linehan WM**: Homozygous Loss of BHD Causes Early Embryonic Lethality and Kidney Tumor Development With Activation of MTORC1 and MTORC2. Proc Natl Acad Sci USA. 106(44): 18722-18727, 2009. (UOB)

**Linehan WM**: 5 Minute Urology Consult. In: 5 Minute Urology Consult. L. Gomella (Ed.), 2nd vol., 2nd Edition: Wolterkluwer/Lippincott Williams & Wilkins. In press. (UOB)

Metwalli AR and **Pinto PA**: Locally Advanced Renal Cell Carcinoma. In: 5 Minute Urology Consult. L. Gomella (Ed.), 2nd vol., 2nd Edition: Wolterkluwer/Lippincott Williams & Wilkins. In press. (UOB)

Proano JM and **Bratslavsky G**: Addison's Disease. In: 5 Minute Urology Consult. L. Gomella (Ed.), 2nd vol., 2nd Edition: Wolterkluwer/Lippincott Williams & Wilkins. 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**

Liu Y, Liu P, Wen W, James MA, Wang Y, Bailey-Wilson JE, Amos CI, Pinney SM, Yang P, de Andrade M, Petersen GM, **Wiest JS**, Fain PR, Schwartz AG, Gazdar A, Gaba C, Rothschild H, Mandal D, Kupert E, Lee J, Seminara D, Minna J, Anderson MW and You M: Haplotype and cell proliferation analyses of candidate lung cancer susceptibility genes on chromosome 15q24-25.1. Cancer Res. 69: 7844-7850, 2009. (LCBG)

Shukla A and **Yuspa SH**: CLIC4 and Schnurri-2: A dynamic duo in TGF-beta signaling. Nucleus. In press. (LCBG)

Stepp MA, Pal-Ghosh S, Tadvalkar G, Rajjoub L, Jurjus RA, Gerdes M, Ryscavage A, Cataisson C, Shukla A and **Yuspa SH**: Loss of syndecan-1 is associated with malignant conversion in skin carcinogenesis. *Molecular Carcinogenesis*. In press. (LCBG)

Lee K-H, Li M, Michalowski AM, Zhang X, Liao H, Chen L, Xu Y, Wu X and **Huang J**: A genome-wide study identifies the Wnt signaling pathway as a major target of p53 in murine embryonic stem cells. *Proc. Natl. Acad. Sci. USA*. In press. (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)

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-ddI-induced mutagenesis and inhibits viral replication. *Environmental and Molecular Mutagenesis*. 50: 460-472, 2009. (LCBG)

**Poirier MC, Olivero OA, Hardy AW, Franchini G, Borojerdi JP, Walker VE, Walker DM and Shearer GM**: Antiretroviral activity of the aminothiols WR1065 against human immunodeficiency virus ( HIV-1) in vitro and simian immunodeficiency virus ( SIV) ex vivo. *AIDS Research and Therapy*. 6: 24, 2009. (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.**

Miller TW, Isenberg JS, and **Roberts DD**: Thrombospondin-1 is an inhibitor of pharmacological soluble guanylate cyclase activation. *Br. J. Pharmacol.* In press. (LP)

Navarathna DHMLP, Harris SD, **Roberts DD**, and Nickerson KW: Evolutionary aspects of urea utilization by fungi. *FEMS Yeast Res.* 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. and Susan Gottesman, Ph.D.**

Cereda V, Poole DJ, **Palena C**, Das S, Bera TK, Remondo C, **Gulley JL**, Arlen PM, Yokokawa J, **Pastan I**, **Schlom J**, and **Tsang KY**: New gene expressed in prostate: a potential target for T cell-mediated prostate cancer immunotherapy. *Cancer Immunol. Immunother.* 59: 63-71, 2009. (LMB)

Nagata S and **Pastan I**: Removal of B cell epitopes as a practical approach for reducing the immunogenicity of foreign protein-based therapeutics. *Advanced Drug Delivery Reviews.* 61: 977-985, 2009. (LMB)

**Cheng SY** and Ringel MD: Frontiers in thyroid cancer. *Thyroid.* 19: 1297-1298, 2009. (LMB)

Arons E, Suntum T, **Stetler-Stevenson M**, and **Kreitman RJ**: VH4-34+ hairy cell leukemia, a new variant with poor prognosis despite standard therapy. *Blood.* 114: 4687-4695, 2009. (LMB)

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

There were no submissions reported this month.

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

Li SH, Hawthorne VS, Neal CL, Sanghera S, Xu J, Yang J, Guo H, **Steeg PS**, and Yu D: Upregulation of neutrophil gelatinase-associated lipocalin by ErbB2 through nuclear factor-kappaB activation. *Cancer Res.* 69: 9163-9168, 2009. (LMP)

Yang S, **Kummar S**, Steinberg SM, Murgu AJ, Gutierrez M, Rubinstein L, Nguyen D, Kaur G, Chen AP, Giranda VL, Tomaszewski JE, and **Doroshow JH**: Immunohistochemical detection of poly(ADP-ribose) polymerase inhibition by ABT-888 in patients with refractory solid tumors and lymphomas. *Cancer Biol. Ther.* In press. (LMP)

**Kummar S**, Gutierrez ME, Gardner ER, Chen X, **Figg WD**, Zajac-Kaye M, Chen M, Steinberg SM, Muir CA, Yancey MA, Horneffer YR, Juwara L, Melillo G, Ivy SP, **Merino M**, **Neckers L**, **Steeg PS**, Conley BA, **Giaccone G**, **Dorosow JH**, and Murgu AJ: Phase I trial of 17-dimethylaminoethylamino-17-demethoxgeldanamycin (17-DMAG), a heat shock protein inhibitor, administered twice weekly in patients with advanced malignancies. *Eur. J. Cancer.* In Press. (LMP)

**Kummar S**, Gutierrez ME, Gardner ER, **Figg WD**, Melillo G, Dancey J, Sausville EA, Conley BA, Murgu AJ, and **Doroshow JH**: A phase I trial of UCN-01 and prednisone in patients with refractory solid tumors and lymphomas. *Cancer Chemother. Pharmacol.* In press. (LMP)

Weidich IE, Dexheimer T, **Marchand C**, Antony S, **Pommier Y**, and **Nicklaus MC**: Inhibitors of human tyrosyl-DNA phosphodiesterase (hTd1) developed by virtual screening using ligand-based pharmacophores. *Bioorg. Med. Chem.* 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.**

Litzinger MT, Foon KA, **Tsang K-Y**, **Schlom J**, and **Palena C**: Comparative analysis of MVA-CD40L and MVA-TRICOM vectors for enhancing the immunogenicity of chronic lymphocytic leukemia (CLL) cells. *Leukemia Res.* 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.**

There were no submissions reported this month.

**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.**

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.**

There were no submissions reported this month.

**Basic Research Laboratory**

There were no submissions reported this month.

**Emeritus Scientists**

Suva M-L, Riggi N, Janiszewska M, Radovanovic I, Provero P, Stehle J-C, Baumer K, Le Bitoux M-A, Marino D, Cironi L, **Marquez VE**, Clement Vand, Stamenkovic I: EZH2 is essential for glioblastoma cancer stem cell maintenance. Cancer Res. In press. (CBL)

Sun F, Chan E, Wu Z, Yang X, **Marquez VE**, and Yu Q: Combinatorial pharmacologic approaches target EZH2-mediated gene repression in breast cancer cells. Mol Cancer Ther. In press. (CBL)

**SAIC Frederick**

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

There were no submissions reported this month.