

## CCR MANUSCRIPT NOTIFICATION (JANUARY 2012)

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

There were no submissions reported this month.

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

**Berzofsky JA:** Improving Immunotherapy: Revisiting the Immunologist's Little Secret. *Science Translational Med.* 4(120): 1-3, 2012. (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.

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

There were no submissions reported this month.

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

Yong KJ, Milenic DE, Baidoo KE, and **Brechbiel MW:** 212Pb-Radioimmunotherapy induces G2 cell cycle arrest and delays DNA damage repair in tumor xenografts in a model for disseminated intraperitoneal disease. *Mol Cancer Ther.* In press. (ROB)

Nayak TK, Garmestani K, Milenic DE, and **Brechbiel MW:** PET and MRI of Metastatic Peritoneal and Pulmonary Colorectal Cancer in Mice with Human Epidermal Growth Factor Receptor 1-Targeted 89Zr-Labeled Panitumumab. *J Nucl Med.* 53(1): 113-120, 2012. (ROB)

**Fitzgerald DP,** Subramanian P, Deshpande M, Graves C, Gordon I, Qian Y, Snitkovsky Y, Liewehr DJ, Steinberg SM, Paltán-Ortiz JD, Herman MM, **Camphausen K,** Palmieri D, Becerra SP, and **Steeg PS:** Opposing Effects of Pigment Epithelium-Derived Factor on Breast Cancer Cell versus Neuronal Survival: Implication for Brain Metastasis and Metastasis-Induced Brain Damage. *Cancer Res.* 72(1): 144-153, 2012. (ROB)

**Coleman CN,** Whitcomb RC, Miller CW, and Noska MA: Commentary on the combined disaster in Japan (1). *Radiat Res.* 177(1): 15-17, 2012. (ROB)

**Haglund KE**, Raut CP, Nascimento AF, Wang Q, George S, and Baldini EH: Recurrence patterns and survival for patients with intermediate- and high-grade myxofibrosarcoma. *Int J Radiat Oncol Biol Phys.* 82(1): 361-367, 2012. (ROB)

Gonçalves AN, Meschiari CA, **Stetler-Stevenson WG**, Nonato MC, Alves CP, Espreafico EM, and Gerlach RF: Expression of soluble and functional full-length human matrix metalloproteinase-2 in *Escherichia coli*. *J Biotechnol.* 157(1): 20-24, 2012. (ROB)

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

Kobayashi H and **Choyke PL**: Recipe for a new imaging biomarker: carefully combine target, reagent, and technology. *Kidney Int.* 81(2): 129-131, 2012. (MIP)

Trivedi H, Turkbey B, Rastinehad AR, Benjamin CJ, Bernardo M, Pohida T, Shah V, **Merino MJ**, Wood BJ, **Linehan WM**, Venkatesan AM, **Choyke PL**, and Pinto PA: Use of Patient-specific MRI-based Prostate Mold for Validation of Multiparametric MRI in Localization of Prostate Cancer. *Urology.* 79(1): 233-239, 2012. (MIP)

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

Cabarcas SM, Thomas S, Zhang X, Cherry JM, Sebastian T, Yerramilli S, Lader E, **Farrar WL**, and Hurt EM: The role of upregulated miRNAs and the identification of novel mRNA targets in prostatospheres. *Genomics.* In press. (LCP)

Hartman T, Zhang Z, Albert P, Bagshaw D, Mentor-Marcel R, Mitchell D, **Colburn NH**, Kris-Etherton P, and Lanza E: Reduced energy intake and weight loss on a legume-enriched diet lead to improvements in biomarkers related to chronic disease. *Topics in Clinical Nutrition.* 26(3): 208-215, 2011. (LCP)

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

There were no submissions reported this month.

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

**Bates SE**: On drug development, chance, and the prepared mind. *Clin Cancer Res.* 18(1): 22, 2012. (MOB)

Peer CJ, Spencer SD, Vandenberg DA, Pacanowski MA, Horenstein RB, and **Figg WD**: A sensitive and rapid ultra HPLC-MS/MS method for the simultaneous detection of clopidogrel and its

derivatized active thiol metabolite in human plasma. *J Chromatogr B Analyt Technol Biomed Life Sci.* 880(1): 132-139, 2012. (MOB)

Marti GE, Stetler-Stevenson M, Grant ND, White T, **Figg WD**, Tohnya T, **Jaffe ES**, Dunleavy K, Janik JE, Steinberg SM, and **Wilson WH**: Phase I trial of 7-hydroxystaurosporine and fludarabine phosphate: in vivo evidence of 7-hydroxystaurosporine induced apoptosis in chronic lymphocytic leukemia. *Leuk Lymphoma.* 52(12): 2284-2292, 2011. (MOB)

Datrice NM, Langan RC, Ripley RT, Kemp CD, Steinberg SM, Wood BJ, Libutti SK, **Fojo T**, **Schrump DS**, and **Avital I**: Operative management for recurrent and metastatic adrenocortical carcinoma. *J Surg Oncol.* In press. (MOB)

Lee JH, Giovannetti E, Hwang JH, Petrini I, Wang Q, Voortman J, Wang Y, Steinberg SM, Funel N, **Meltzer PS**, Wang Y, and **Giaccone G**: Loss of 18q22.3 Involving the Carboxypeptidase of Glutamate-like Gene Is Associated with Poor Prognosis in Resected Pancreatic Cancer. *Clin Cancer Res.* 18(2): 524-533, 2012. (MOB)

**Bates SE**, Amiri-Kordestani L, and **Giaccone G**: Drug development: portals of discovery. *Clin Cancer Res.* 18(1): 23-32, 2012. (MOB)

Goodwin R, **Giaccone G**, Calvert H, Lobbezoo M, and Eisenhauer EA: Targeted agents: How to select the winners in preclinical and early clinical studies? *Eur J Cancer.* 48(2): 170-178, 2011. (MOB)

Raoul JL, Bruix J, **Greten TF**, Sherman M, Mazzaferro V, Hilgard P, Scherubl H, Scheulen ME, Germanidis G, Dominguez S, Ricci S, Nadel A, Moscovici M, Voliotis D, and Llovet JM: Relationship between baseline hepatic status and outcome, and effect of sorafenib on liver function: SHARP trial subanalyses. *J Hepatol.* In press. (MOB)

**Luo J**: Cancer's sweet tooth for serine. *Breast Cancer Res.* 13(6): 317, 2011. (MOB)

**Wells Jr SA**, Robinson BG, Gagel RF, Dralle H, Fagin JA, Santoro M, Baudin E, Elisei R, Jarzab B, Vasselli JR, Read J, Langmuir P, Ryan AJ, and Schlumberger MJ: Vandetanib in Patients With Locally Advanced or Metastatic Medullary Thyroid Cancer: A Randomized, Double-Blind Phase III Trial. *J Clin Oncol.* 30(2): 134-141, 2012. (MOB)

### **Laboratory of Metabolism - Frank Gonzalez, Ph.D.**

Magno L, Kretz O, Bert B, Erzoğlu S, Vogt J, Fink H, **Kimura S**, Vogt A, Monyer H, Nitsch R, and Naumann T: The integrity of cholinergic basal forebrain neurons depends on expression of Nkx2-1. *Eur. J. Neurosci.* 34: 1767-1782, 2011. (LM)

Lin CL, Barletta JA, Nehs MA, Morris ZS, Donner DB, Whang EE, Jeong JW, **Kimura S**, Moore Jr FD, and Ruan DT: Thyroid-specific knockout of the tumor suppressor mitogen-inducible gene 6 activates epidermal growth factor receptor signaling pathways and suppresses nuclear factor- $\kappa$ B activity. *Surgery*. 150: 1295-1302, 2011. (LM)

Yang D, Postnikov YV, Li Y, Tewary P, de la Rosa G, Wei F, **Klinman D**, Gioannini T, Weiss JP, Furusawa T, **Bustin M**, and **Oppenheim JJ**: High-mobility group nucleosome-binding protein 1 acts as an alarmin and is critical for lipopolysaccharide-induced immune responses. *J Exp Med*. 209(1): 157-171, 2012. (LM)

Barkess G, Postnikov Y, Campos CD, Mishra S, Mohan G, Verma S, **Bustin M**, and West KL: The chromatin binding protein HMGN3 stimulates histone acetylation and transcription across the Glyt1 gene. *Biochem J*. In press. (LM)

Abuhatzira L, Shamir A, Schones DE, Schäffer AA, and **Bustin M**: The chromatin-binding protein HMGN1 regulates the expression of methyl CpG-binding protein 2 (MECP2) and affects the behavior of mice. *J Biol Chem*. 286(49): 42051-42062, 2012. (LM)

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

Frank GA, Bartesaghi A, Kuybeda O, Borgnia MJ, White TA, Sapiro G and **Subramaniam S**: Computational separation of conformational heterogeneity using cryo-electron tomography and 3D sub-volume averaging. *J Struct Biol*. In press. (LCB)

Narayan K, Prosa T, Fu J, Kelly TF, and **Subramaniam S**: Chemical mapping of mammalian cells by atom probe tomography. *J Struct Biol*. In press. (LCB)

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

There were no submissions reported this month.

### **Laboratory of Biochemistry and Molecular Biology – Shiv Grewal, Ph.D.**

Venkova-Canova T, Saha A, and **Chattoraj DK**: A 29-mer site regulates transcription of the initiator gene as well as function of the replication origin of *Vibrio cholerae* chromosome II. *Plasmid*. In press. (LBMB)

Jha JK, Baek JH, Venkova-Canova T, and **Chattoraj DK**: Chromosome dynamics in multichromosome bacteria. *BBA - Gene Regulatory Mechanisms*. In press. (LBMB)

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

Trcek T, **Larson DR**, Moldón A, Query CC, and Singer RH: Single-molecule mRNA decay measurements reveal promoter- regulated mRNA stability in yeast. *Cell*. 147(7): 1484-1497, 2011. (LRBGE)

Nakayamada S, Kanno Y, Takahashi H, Jankovic D, Johnson TA, Sun H, Vahedi G, Hakim O, Schwartzberg PL, **Hager GL**, and O'Shea JJ: Early Th1 cell differentiation is marked by a Tfh-like cell transition. *Immunity*. 35(6): 919-931, 2011. (LRBGE)

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

Zhang G, Schetter A, He P, Funmizu N, Gaedcke J, Ghadimi MB, **Ried T**, **Hassan R**, Yfantis HG, Lee DH, Lacy C, Maitra A, Hanna N, Alexander HR, and **Hussain P**: DPEP1 Inhibits Tumor Cell Invasiveness, Enhances Chemosensitivity and Predicts Clinical Outcome in Pancreatic Ductal Adenocarcinoma. *Plos One*. In press. (LHC)

Zanetti K, Haznadar M, Welsh J, Robles A, Ryan BM, McClary AC, Bowman ED, Goodman JE, Bernig T, Chanock SJ, and **Harris CC**: 3' UTR and functional secretor haplotypes in mannose-binding lectin 2 are associated with increased colon cancer risk in African Americans. *Cancer Res*. In press. (LHC)

### **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.

### **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.**

Hirsch D, Camps J, Varma S, Kemmerling R, Stapleton M, **Ried T**, and Gaiser T: A New Whole Genome Amplification Method for Studying Clonal Evolution Patterns in Malignant Colorectal Polyps. *Genes Chromosomes and Cancer*. In press. (GB)

Stirling PC, Crisp MJ, **Basrai MA**, Tucker CM, Dunham MJ, Spencer FA, and Hieter P: Mutability and mutational spectrum of chromosome transmission fidelity genes. *Chromosoma*. In press. (GB)

Kemp CD, Rao M, Xi S, Inchauste S, Mani H, Fetsch P, Filie A, Zhang M, Hong JA, Walker RL, Zhu YJ, Ripley RT, Mathur A, Liu F, Yang M, **Meltzer PS**, **Marquez VE**, De Rienzo A, Bueno R, and **Schrump DS**: Polycomb repressor complex-2 is a novel target for mesothelioma therapy. *Clin Cancer Res*. 18(1): 77-90, 2012. (GB)

### **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 Genomic Integrity – Andre Nussenzweig, Ph.D.**

There were no submissions reported this month.

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

O'Connell ML, Birkenkamp KE, **Kleiner DE**, Folio LR, Holland SM, and Olivier KN: Lung manifestations in an autopsy series of pulmonary or disseminated nontuberculous mycobacterial disease. *Chest*. In press. (LP)

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

Liu W, Onda M, Kim C, Xiang L, Weldon JE, **Lee B**, and **Pastan I**: A recombinant immunotoxin engineered for increased stability by adding a disulfide bond has decreased immunogenicity. *Protein Eng. Des. Sel.* 25: 1-6, 2012. (LMB)

Singh R, Zhang Y, **Pastan I**, and **Kreitman RJ**: Synergistic antitumor activity of Anti-CD25 recombinant immunotoxin LMB-2 with chemotherapy. *Clin. Cancer Res.* 18: 152-160, 2012. (LMB)

### **Cancer and Developmental Biology Laboratory - Alan Perantoni, Ph.D.**

There were no submissions reported this month.

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

FitzGerald DP, Subramanian P, Deshpande M, Graves C, Gordon I, Qian Y, Snitkovsky Y, Liewehr DJ, Steinberg SM, Paltan-Ortiz JD, Herman MM, **Camphausen K**, Palmieri D, Becerra SP, and **Steeg PS**: Opposing effects of pigment epithelium-derived factor on breast cancer cell versus neuronal survival: implication for brain metastasis and metastasis-induced brain damage. *Cancer Res.* 72: 144-153, 2012. (LMP)

Aris SM and **Pommier Y**: Potentiation of the novel topoisomerase I inhibitor indenoisoquinoline LMP-400 by the cell checkpoint and Chk1-Chk2 inhibitor, AZD7762. *Cancer 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.**

There were no submissions reported this month.

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

Gameiro SR, Caballero JA, and **Hodge JW**: Defining the molecular signature of chemotherapy-mediated lung tumor phenotype modulation and increased susceptibility to T-cell killing. *Cancer Biotherapy and Radiopharmaceuticals.* In press. (LTIB)

**Hodge JW**, Sharp HJ, and Gameiro SR: Abscopal regression of antigen disparate tumors by antigen cascade following systemic tumor vaccination in combination with local tumor radiation. *Cancer Biotherapy and Radiopharmaceuticals.* In press. (LTIB)

Kamrava M, Kesarwala AH, **Madan RA**, Lita E, Kaushal A, **Tsang KY**, Poole DJ, Steinberg SM, Ferrara T, **Dahut W**, **Schlom J**, and **Gulley JL**: Long-term follow-up of prostate cancer patients treated with vaccine and definitive radiation therapy. *Prostate Cancer and Prostatic Diseases*. In press. (LTIB)

**Madan RA**, Mohebtash M, Arlen PM, Vergati M, Rauckhorst M, Steinberg SM, **Tsang KY**, Poole DJ, Parnes HL, Wright JJ, **Dahut WL**, **Schlom J**, and **Gulley JL**: A phase I trial of ipilimumab and a poxviral vaccine targeting PSA in metastatic castration-resistant prostate cancer: analysis of toxicity, response, and survival. *Lancet Oncol*. 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.

### **Molecular Discovery Program – Jeffrey Strathern, Ph.D., Acting Program Director**

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

There were no submissions reported this month.

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

Nelson CG and **Burke Jr TR**: Samarium iodide-mediated reformatsky reactions for the stereoselective preparation of  $\beta$ -hydroxy- $\alpha$ -amino acids: Synthesis of isostatine and dolaisoleucine. *J Org Chem*. 77: 733-738, 2012. (CBL)

Zhao XZ, Maddali K, Metifiot M, Smith SJ, Vu BC, **Marchand C**, **Hughes SH**, **Pommier Y**, and **Burke Jr TR**: Bicyclic hydroxyl-1H-pyrrolopyridine-trione containing HIV-1 integrase inhibitors. *Chem Biol Drug Des*. 79: 157-165, 2012. (CBL)

Liu F, Park JE, Qian WJ, Lim D, Scharow A, Berg T, Yaffe MB, Lee KS, and **Burke Jr TR**: Identification of High Affinity Polo-like Kinase 1 (Plk1) Polo-box Domain Binding Peptides Using Oxime-based Diversification. *ACS Chem Biol*. In press. (CBL)

#### **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.

**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.

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

Ray A, Marshall V, Uldrick T, Leighty R, Labo N, Wyvill K, Aleman K, Polizzotto MN, Little RF, **Yarchoan R**, and Whitby D: Sequence Analysis of KSHV microRNAs in patients with multicentric Castleman disease and KSHV-associated inflammatory cytokine syndrome. J. Infect. Dis. In press. (HAMB)

Polizzotto MN, Uldrick TS, Hu D, and **Yarchoan R**: Clinical manifestations of Kaposi sarcoma herpesvirus (KSHV) lytic activation: Multicentric Castleman disease (KSHV-MCD) and the KSHV inflammatory cytokine syndrome (KICS). Frontiers in Virology. In press. (HAMB)

## **Basic Research Laboratory**

### **Cheryl Winkler**

Wester CW, Limou S, and **Winkler CA**: HIV Pharmacogenetics and Pharmacogenomics: From Bench to Bedside. In: Genetics. Chapter 117. In press. (BRL)

## **Emeritus Scientists**

### **Victor Marquez**

Ludek OR and **Marquez VE**: Synthesis of Conformationally north-locked pyrimidine nucleosides built on an oxabicyclo[3.1.0]hexane scaffold. J Org Chem. 77: 815-824, 2012. (CBL)