

CCR MANUSCRIPT NOTIFICATION (JUNE 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.

Cafaro A, Bellino S, Titti F, Maggiorella MT, Sernicola L, Wiseman RW, Venzon D, Karl JA, O'Connor D, Monini P, **Robert-Guroff M**, and Ensoli B: Impact of viral dose and major histocompatibility complex class IB haplotype on viral outcome in Tat-vaccinated Mauritian cynomolgus monkeys upon challenge with SHIV89.6P. J. Virol. In press. (VB)

CCR Nanobiology Program - Robert Blumenthal, Ph.D.

Belanger JM, Raviv Y, Viard M, de la Cruz MJ, Nagashima K, and **Blumenthal R**: Characterization of the effects of aryl-azido compounds and near UV irradiation on the viral proteins and infectivity of human immunodeficiency virus type 1. Photochem. Photobiol. In press. (CCRNP)

Paliy M, Melnik R, and **Shapiro BA**: Coarse-graining RNA nanostructures for molecular dynamics simulations. Phys. Biol. In press. (CCRNP)

Wexler-Cohen Y, Ashkenazi A, Viard M, **Blumenthal R**, and Shai Y: Virus-cell and cell-cell fusion mediated by the HIV-1 envelope glycoprotein is inhibited by short gp41-Nterminal membrane-anchored peptides lacking the critical pocket domain. FASEB. 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.

Muus U, Hose C, Yao W, Kosakowska-Cholody T, Farnsworth D, Dyba M, Lountos GT, **Waugh DS**, Monks A, **Burke Jr TR**, and Michejda CJ: Development of antiproliferative phenylmaleimides that activate the unfolded protein response. *Bioorg & Med Chem.* 18: 4535-4541, 2010. (CBL)

Sitzmann M, Ihlenfeldt WD, and **Nicklaus MC**: Tautomerism in large databases. *J Comput Aided Mol Des.* 24: 521-551, 2010. (CBL)

Oyelaran O and **Gildersleeve JC**: Evaluation of human antibody responses to keyhole limpet hemocyanin on a carbohydrate microarray. *Proteomics Clin Appl.* 4: 285-294, 2010. (CBL)

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.* 110(5): 2921-2959, 2010. (ROB)

Bouchelouche K and **Capala J**: 'Image and treat': an individualized approach to urological tumors. *Curr Opin Oncol.* 22(3): 274-280, 2010. (ROB)

Bouchelouche K, Turkbey B, **Choyke PL**, and **Capala J**: Imaging prostate cancer: an update on positron emission tomography and magnetic resonance imaging. *Curr Urol Rep.* 11(3): 180-190, 2010. (ROB)

Brown AP, Chung EJ, Urick ME, Shield III WP, Sowers AL, Thetford A, Shankavaram UT, **Mitchell JB**, and **Citrin DE**: Evaluation of the fullerene compound DF-1 as a radiation protector. *Radiat Oncol.* 5: 34, 2010. (ROB)

Bourboulia D and **Stetler-Stevenson WG**: Matrix metalloproteinases (MMPs) and tissue inhibitors of metalloproteinases (TIMPs): Positive and negative regulators in tumor cell adhesion. *Semin Cancer Biol.* In press. (ROB)

Guedez L and **Stetler-Stevenson WG**: The prognostic value of TIMP-1 in multiple myeloma. *Leuk Res.* 34(5): 576-577, 2010. (ROB)

Nwe K, Bryant Jr LH, and **Brechbiel MW**: Poly(amidoamine) dendrimer based MRI contrast agents exhibiting enhanced relaxivities derived via metal preligation techniques. *Bioconjug Chem.* 21(6): 1014-1017, 2010. (ROB)

Nayak TK, Garmestani K, Baidoo KE, Milenic DE, and **Brechbiel MW**: Preparation, biological evaluation, and pharmacokinetics of the human anti-HER1 monoclonal antibody panitumumab labeled with ⁸⁶Y for quantitative PET of carcinoma. *J Nucl Med.* 51(6): 942-950, 2010. (ROB)

Van Waes C, Allen CT, **Citrin D**, **Gius D**, Colevas AD, Harold NA, Rudy S, Nottingham L, Muir C, Chen Z, Singh AK, Dancey J, and **Morris JC**: Molecular and clinical responses in a pilot study of gefitinib with paclitaxel and radiation in locally advanced head-and-neck cancer. *Int J Radiat Oncol Biol Phys.* 77(2): 447-454, 2010. (ROB)

Molecular Imaging Program - Peter Choyke, M.D.

Turkbey B, Xu S, Kruecker J, Locklin J, Pang Y, Bernardo M, **Merino MJ**, Wood BJ, **Choyke PL**, and **Pinto PA**: Documenting the location of prostate biopsies with image fusion. *BJU Int.* In press. (MIP)

Bumb A, **Brechbiel MW**, and **Choyke PL**: Macromolecular and dendrimer-based magnetic resonance contrast agents. *Acta Radiol.* In press. (MIP)

Ogawa M, Kosaka N, Regino CA, Mitsunaga M, **Choyke PL**, and Kobayashi H: High sensitivity detection of cancer in vivo using a dual-controlled activation fluorescent imaging probe based on H-dimer formation and pH activation. *Mol Biosyst.* 6(5): 888-893, 2010. (MIP)

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

Crea F, Duhagon Serrat MA, Hurt EM, Thomas SB, Danesi R, and **Farrar WL**: BMI1 Silencing enhances docetaxel activity and impairs antioxidant response in prostate cancer. *Int. J. Cancer.* In press. (LCP)

Turanov AA, Kehr S, Marino SM, Yoo MH, Carlson BA, **Hatfield D**, and Gladyshev VN: Mammalian thioredoxin reductase 1: roles in redox homeostasis and characterization of cellular targets. *Biochem J.* 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.

Freedman AN, Sansbury LB, **Figg WD**, Potosky AL, Smith SRW, Khoury MJ, Nelson S, Weinshilboum RM, Ratain MJ, McLeod H, Epstein RS, Ginsburg GS, Schilsky RL, Liu G, Flockhart DA, Ulrich CM, Davis RL, Lesko LJ, Zineh I, Randhawa G, Ambrosome CB, Relling MV, Rothman N, Xie H, Spitz M, Ballard-Barbash R, **Doroshov JH**, and Minasian L: Cancer Pharmacogenomics and Pharmacoepidemiology: Setting a Research Agenda to Accelerate Translation. J. Natl. Cancer Inst. 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, Wolber R, Gerwat W, Mann T, Smuda C, Kolbe L, and **Hearing VJ**: A novel paracrine fibroblast-derived melanogenic factor neuregulin-1 (NRG-1) that modulates the constitutive color and melanocyte function in human skin. J. Cell Sci. In press. (LCB)

Felts RL, Narayan K, Estes JD, Shi D, Trubey CM, Fu J, Hartnell L, Ruthe GT, Schneider DK, Nagashima K, Bess Jr JW, Bavari S, Lowekamp BC, Bliss D, **Lifson JD** and **Subramaniam S**: 3D visualization of HIV transfer at the virological synapse between dendritic cells and T- cells. Proc Nat Acad Sci, USA. In press. (LCB)

Milne JLS: Structure and regulation of pyruvate dehydrogenase complexes. In: Encyclopedia of Biological Chemistry. Lane MD and Lennarz W (Eds.). Elsevier Inc. In press. (LCB; PI: **Gottesman MM**).

Shen DW, Ma J, Okabe M, Zhang G, **Xia D**, and **Gottesman MM**: Elevated expression of TMEM205, a hypothetical membrane protein, is associated with cisplatin resistance. J Cell Physiol. 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.

Hakim O, Sung MH, and **Hager GL**: 3D Shortcuts to Gene Regulation. Curr. Opin. Cell Biol. In press. (LRBGE)

Hager GL: Studying nuclear receptors with green fluorescent protein fusions. In: Techniques in confocal microscopy. Conn MP (Ed.). London: Academic Press, pp. 379-389. (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.

Chung S, Wendeler M, Rausch JW, Beilhartz GL, Gotte M, **O'Keefe B**, Bermingham A, **Beutler JA**, Liu S, Zhuang X, and **Le Grice SFJ**: Structure-activity analysis of vinylogous urea inhibitors of human immunodeficiency virus reverse transcriptase. *Antimicrob. Agents Chemother.* 54: 3913-3921, 2010. (RRL)

Freed EO and Simon A: Virus-host: Partners in pathogenesis. Review of EMBO World Lecture Course. In Press. (RRL)

Waheed AA and **Freed EO**: HIV-1 Gag as a target for antiviral therapy. *Curr. Top. Med. Chem.* In press. (RRL)

Wu T, Datta SAK, Mitra M, **Gorelick RJ**, **Rein A**, and Levin JG: Fundamental differences between the nucleic acid chaperone activities of HIV-1 nucleocapsid protein and Gag or Gag-derived proteins: Biological implications. *Virology.* 405: 556-567, 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.

Benhammou JN, Boris RS, Pacak K, **Pinto PA**, **Linehan WM**, and **Bratslavsky G**: Functional and Oncologic Outcomes of Partial Adrenalectomy for Pheochromocytoma in VHL Patients After a Minimum 5 Year Follow Up. *J Urol.* In press. (UOB)

Chung PH, **Srinivasan R, Linehan WM, Pinto PA**, and **Bratslavsky G**: Renal Cell Carcinoma With Metastases to Gallbladder: Four Cases From the National Cancer Institute (NCI) and Review of the Literature. *Semin Urol Oncol*. In press. (UOB)

Mathur A, Kemp CD, Dutta U, Baid S, Ayala A, Chang RE, Steinberg SM, Lange E, Pingpank JF, Alexander HR, **Linehan WM, Pinto PA**, Phan G, Hughes M, Libutti SK, Stratakis C, and **Kebebew E**: Adrenal Venous Sampling in Primary Hyperaldosteronism: Standardizing a Gold Standard. *J Am Coll Surg*. In press. (UOB)

Miller DC, Ruterbusch J, Colt JS, Davis FG, **Linehan WM**, Chow WH, and Schwartz K: Contemporary Clinical Epidemiology of Renal Cell Carcinoma: Insight From a Population-Based Case-Control Study. *J Urol*. 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

Malik M, Shukla A, Niedelman W, Lee J, Jividen K, **Phang JM**, Ding J, Suh KS, Curmi PMG and **Yuspa SH**: S-nitrosylation regulates nuclear translocation of chloride intracellular channel protein, CLIC4. *J Bio. Chem*. In press. (LCBG)

Wolf R, Ruzicka T and **Yuspa SH**: Novel S100A (psoriasin)/S100A15 (koebnerisin) subfamily – highly homologous but distinct. *Amino Acids*. In press. (LCBG)

Blumberg PM, Kedei N, Lewin NE, Yang D, Tao J, Telek A, and Geczy T: PKC isozymes – receptors for diacylglycerol and phorbol esters. Kazanietz MG (Ed.). In: *Protein Kinase C in Cancer Signaling and Therapy*, Springer Publishing Co., N.Y. In press. (LCBG)

Philosof-Mazor L, Volinsky R, Joop J, Rapaport H, **Blumberg PM, Marquez VE**, and Jelinek R: Lipidmodulated pharmacophore nanofibres assembled at the air/water interface. *Chem Phys Chem*. In press. (LCBG)

Mendoza A, Osborne AT, Khan A, Campbell K, Briggs J, Buquo L, Ren L, Hewitt SM, Dakir E-H, **Garfield S**, Walker R, **Merlino G**, **Green JE**, **Hunter K**, **Wakefield L**, Hong SH and **Khanna C**: An Ex Vivo lung culture assay provides a novel perspective on cancer metastasis. J Clin. Invest. In press. (LCBG)

Barkan D, El Touny LH, Michalowski AM, Smith JA, Chu I, Davis AS, Webster JD, Hoover S, Simpson RM, Gauldie J and **Green JE**: Metastatic outgrowth from dormant tumor cells is induced by a Col-I enriched fibrotic Environment. Cancer Res. In press. (LCBG)

Hoenerhoff MJ, Shibata MA, Bode A and **Green JE**: Pathologic progression of mammary carcinomas in a C3(1)/SV40 T/t-antigen transgenic rat model of human triple-negative and Her2-positive breast cancer. Transgenic Res. In press. (LCBG)

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 Journal. 277: 39-46, 2010. (LCBG)

Luger D and **Wakefield LM**: Inflammation and beyond: complex roles for TGF-beta in the tumor microenvironment. In: The inflammatory milieu of tumors: cytokines and chemokines that affect tumor growth and metastasis. Bentham Science Publishers. In press. (LCBG)

Torres SM, Divi RL, Walker DM, McCash CL, Carter MM, Campen MJ, Einem TL, Seilkop SK, **Poirier MC** and Walker VE: In utero exposure of female CD-1 mice to AZT and /or 3TC: II. Persistence of functional Alterations in Cardiac Tissue. Cardiovascular Toxicol. 10(2): 87-99, 2010. (LCBG)

Olivero OA, Vazquez IL, Cooch CC, Ming J, Keller E, Yu M, Borojerdi JP, McKee E and **Poirier MC**: Long term AZT exposure alters the metabolic capacity of cultured human lymphoblastoid cells. Toxicological Sci. 115 (1): 109-117, 2010. (LCBG)

Obolenskaya MY, Teplyuk NM, Divi RL, **Poirier MC**, Filimonova NB, Zadronza M and Pasanen MJ: Human placental glutathione-S-transferase activity and polycyclic aromatic hydrocarbon-DNA adducts as biomarkers for environmental oxidative stress in placentas from pregnant woman living in radioactively- and chemically- polluted regions. Toxicology Lett. 196(2): 80-86, 2010. (LCBG)

Torres SM, March TH, Carter MM, McCash CL, Seilkop SK, **Poirier MC**, Walker DM and Walker VE: In utero exposure of female CD-1 mice to AZT and/or 3TC: I. Persistence of Microscopic Lesions in Cardiac Tissue. Cardiovascular Toxicol. 10: 37-50, 2010. (LCBG)

John K, Divi RL, Keshava C, Orozco CC, Richardson DL, **Poirier MC**, Weston A and Nath J: CYP1A1 and CYP1B1 gene expression and DNA adduct formation in normal human mammary epithelial cells exposed to polycyclic aromatic hydrocarbons in the absence and presence of chlorophyllin. *Cancer Letters*. 292: 254-260, 2010. (LCBG)

Torres SM, Walker DM, Divi RL, **Poirier MC**, and Walker VE: Transplacental exposure to antiretroviral drugs and cardiotoxicity in offspring. In: *Cardiovascular Toxicology*. McQueen C, Walker M and Campen M (Eds.), Elsevier, Kidlington, Oxford, UK, Comprehensive Toxicology Series. In press.

Poirier MC and Weisburger EK: Chemical Carcinogenesis. In: *Cancer- the Outlaw Cell*. Margaret Brown (Ed.), American Chemical Society, Washington DC. In press.

Pratt MM, King LC, Adams LA, Sirajuddin P, Olivero OA, Manchester DK, Sram RJ, DeMarini DM and **Poirier MC**: Assessment of multiple types of DNA damage in human placentas from smoking and non-smoking women in the Czech Republic. *Environmental and Molecular Mutagenesis*. In press.

Dutra A, Pak E, Wincovitch S, John K, **Poirier MC** and Olivero OA: Nuclear bud formation : a novel manifestation of zidovudine genotoxicity. *Cytogenet Genome Res*. 128(1-3): 105-110, 2010. (LCBG)

Barkan D, **Green JE**, and Chambers AF: Extracellular matrix: a gatekeeper in the transition from dormancy to metastatic growth. *Eur J Cancer*. 46(7): 1181-1188, 2010. (LCBG)

Calvo A, Perez-Stable C, Segura V, Catena R, Guruceaga E, Fernandez P, Blanco D, Parada L, Gonzalez-Moreno O, Nguewa P, Reiner T and **Green JE**: Molecular characterization of the FG/Tag transgenic mouse model of androgen-independent prostate cancer: comparison to human prostate cancer. *The Prostate*. 70: 630-645, 2010. (LCBG)

Gonzalez-Moreno O, Lecanda J, **Green JE**, Segura V, Catena R, Serrano D, and Calvo A: VEGF elicits Epithelial-to-Mesenchymal Transition (EMT) in prostate intraepithelial neoplasia (PIN)-like cells via an autocrine loop. *Exp Cell Res*. 316(4): 554-567, 2010. (LCBG)

Kim HK, Reyzer ML, Choi J, Kim CG, Kim HS, Oshima A, Chertov O, Colantonio S, Fisher RJ, Allen JL, Caprioli RM, and **Green JE**: A gastric cancer-specific protein profile identified using endoscopic biopsy samples via MALDI mass spectrometry. *J Proteome Res*. 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.

There were no submissions reported this month.

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

Eberle FC, Hanson JC, Killian JK, Wei L, Ylaya K, **Hewitt SM, Jaffe ES, Emmert-Buck MR**, and Rodriguez-Canales J: Immunoguided laser assisted microdissection techniques for DNA methylation analysis of archival tissue specimens. *J. Mol. Diagn.* In press. (LP)

Fliedner SM, Breza J, Kvetnansky R, Powers JF, Tischler AS, Wesley R, **Merino MJ**, Lehnert H, and Pacak K: Tyrosine hydroxylase, chromogranin A, and steroidogenic acute regulator as markers for successful separation of human adrenal medulla. *Cell Tissue Res.* 340(3): 607-612, 2010. (LP)

Hartmann EM, Campo E, Wright G, Lenz G, Salaverria I, Jares P, Xiao W, Braziel RM, Rimsza LM, Chan WC, Weisenburger DD, Delabie J, **Jaffe ES**, Gascoyne RD, Dave SS, Mueller-Hermelink HK, **Staudt LM**, Ott G, Bea S, and Rosenwald A: Pathway discovery in mantle cell lymphoma by integrated analysis of high resolution gene expression and copy number profiling. *Blood.* In press. (LP)

Hussong JW, Arber DA, Bradley KT, Brown MS, Chang CC, de Baca ME, Ellis DW, Foucar K, Hsi ED, **Jaffe ES**, Lill M, McClure SP, Medeiros LJ, and Perkins SL: Protocol for the examination of specimens from patients with non-Hodgkin lymphoma/lymphoid neoplasms. *Arch. Pathol. Lab. Med.* 134: e40-47, 2010. (LP)

Li G, Liu J, Abu-Asab M, Masabumi S, and Maru Y: XPB induces C1D expression to counteract UV-induced apoptosis. *Mol. Cancer Res.* 8(6): 885-895, 2010. (LP; PI: **Oberholtzer JC**)

Oliveira JB, Blessing JJ, Dianzani U, Fleisher TA, **Jaffe ES**, Lenardo MJ, Rieux-Laucat F, Siegel RM, Su HC, Teachey DT, and Rao VK: Revised diagnostic criteria and classification for the autoimmune lymphoproliferative syndrome: report from the 2009 NIH International Workshop. *Blood.* In press. (LP)

Zhong M, DeAngelo P, Osborne L, Keane-Tarchichi M, Yang Y, **Linehan WM, Merino MJ**, Aisner S, and Hameed M: Dual-color, break-apart FISH assay on paraffin-embedded tissues as an adjunct to diagnosis of Xp11 translocation renal cell carcinoma and alveolar soft part sarcoma. *Am. J. Surg. Pathol.* 34(6): 757-766, 2010. (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.

Soper T, Mandin P, Majdalani N, **Gottesman S**, and Woodson SA: Positive regulation by small RNAs and the role of Hfq. *Proc. Natl. Acad. Sci. USA.* 107: 9602-9607, 2010. (LMB)

Coornaert A, Lu A, Mandin P, Springer M, **Gottesman S**, and Guillier M: MicA sRNA links the PhoP regulon to cell envelope stress. *Mol. Microbiol.* 76: 467-479, 2010. (LMB)

Du X, Youle RJ, **FitzGerald D**, and **Pastan I**: Pseudomonas exotoxin A-mediated apoptosis is Bak dependent and preceded by the degradation of Mcl-1. *Mol. Cell Biol.* 30: 3444-3452, 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.

Pommier Y, Leo E, Zhang H, and Marchand C: DNA topoisomerases and their poisoning by anticancer and antibacterial drugs. *Chem. Biol.* 17: 421-433, 2010. (LMP)

Kim S, **Aladjem MI**, McFadden GB, and **Kohn KW**: Predicted functions of MdmX in fine-tuning the response to p53 to DNA damage. *PLoS. Comput. Biol.* 6: e1000665, 2010. (LMP)

Blagosklonny MV, Campisi J, Sinclair DA, Bartke A, Blasco MA, **Bonner WM**, Bohr VA, Brosh Jr RM, Brunet A, Depinho RA, Donehower LA, Finch CE, Finkel T, Gorospe M, Gudkov AV, Hall MN, Hekimi S, Helfand SL, Karlseder J, Kenyon C, Kroemer G, Longo V, **Nussenzweig A**, Osiewacz HD, Peeper DS, Rando TA, Rudolph KL, Sassone-Corsi P, Serano M, Sharpless NE, Skulachev VP, Tilly JL, Tower J, Verdin E, and Vijg J: Impact papers on aging in 2009. *Aging.* 2: 111-121, 2010. (LMP)

Michelini Z, Galluzzo CM, Negri DR, Leone P, Amici R, Bona R, Summa V, DiSanto R, Costi R, **Pommier Y**, Marchand C, Palmisano L, Vella S, and Cara A: Evaluation of HIV-1 integrase inhibitors on human primary macrophages using a luciferase-based single-cycle phenotypic assay. *J. Virol. Methods.* In press. (LMP)

Kovalchuk O, Zemp FJ, Filkowski J, Altamirano A, Dickey JS, Jenkins-Baker G, Marino ST, Brenner DJ, **Bonner WM**, and Sedelnikova OA: microRNAome changes in bystander three-dimensional human tissue models suggest priming of apoptotic pathways. *Carcinogenesis.* In press. (LMP)

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

There were no submissions reported this month.

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.

There were no submissions reported this month.

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

Zaharoff DA, Hance KW, Rogers CJ, **Schlom J**, and Greiner J: Intratumoral immunotherapy of established solid tumors with chitosan/IL-12. *J Immunother.* In press. (LTIB)

Nesslinger NJ, Ng A, Tsang KY, Ferrara T, **Schlom J**, **Gulley JL**, and Nelson BH: A viral vaccine encoding PSA induces antigen spreading to a common set of self proteins in prostate cancer patients. *Clin Cancer 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.

Sengupta M, Nielsen HJ, Youngren B, and **Austin S**: P1 plasmid segregation: accurate redistribution by dynamic plasmid pairing and separation. *J. Bacteriol.* 192: 1175-1183, 2010. (GRCBL)

Swingle B, Markel E, Costantino N, Bubunenko MG, Cartinhour S, and **Court DL**: Oligonucleotide recombination in Gram-negative bacteria. *Mol. Microbiol.* 75: 138-148, 2010. (GRCBL)

Dakshinamurthy A, Nyswaner KM, Farabaugh PJ, and Garfinkel DJ: BUD22 affects Ty1 retrotransposition and ribosome biogenesis in *Saccharomyces cerevisiae*. *Genetics.* In press. (GRCBL; PI: **Strathern J**)

Checkley MA, Nagashima K, Lockett SJ, Nyswaner KM, and Garfinkel DJ: P-body components are required for Ty1 retrotransposition during assembly of retrotransposition-competent virus-like particles. *Mol. Cell. Biol.* 30: 382-398, 2010. (GRCBL; PI: **Strathern J**)

Matsuda E and Garfinkel DJ: Posttranslational interference of Ty1 retrotransposition by antisense RNAs. Proc. Natl. Acad. Sci. USA. 106: 15657-15662, 2009. (GRCBL; PI: **Strathern J**)

Yang ZX, Zhou YN, Yang Y and **Jin DJ**: Polyphosphate binds to the principal sigma factor of RNA polymerase during starvation response in Helicobacter pylori. Molecular Microbiology. In press. (GRCBL)

Seibold SA, Singh BN, Zhang C, Kireeva M, Domecq C, Bouchard A, Nazione AM, Feig M, Cukier RI, Coulombe B, **Kashlev M**, Hampsey M, and Burton ZF: Conformational coupling, bridge helix dynamics and active site dehydration in catalysis by RNA polymerase. Biochimica et biophysica acta. In press. (GRCBL)

Jin J, Bai L, Johnson DS, Fulbright RM, Kireeva ML, **Kashlev M**, and Wang MD: Synergistic action of RNA polymerases in overcoming the nucleosomal barrier. Nat. Struct. Mol. Biol. 17(6): 745-752, 2010. (GRCBL)

Klar AJ: A proposal for re-defining the way the aetiology of schizophrenia and bipolar human psychiatric diseases is investigated. J. Biosci. 35: 11-15, 2010. (GRCBL)

Armakolas A, Koutsilieris M, and **Klar AJ**: Discovery of the mitotic selective chromatid segregation phenomenon and its implications for vertebrate development. Curr. Opin. Cell Biol. 22(1): 81-87, 2010. (GRCBL)

Laboratory of Experimental Carcinogenesis - Snorri Thorgeirsson, M.D., Ph.D.

Calvisi DF, Ladu S, Conner EA, Seo D, Hsieh J-T, Factor VM, and **Thorgeirsson SS**: Inactivation of Ras GTPase-activating proteins promotes unrestrained activity of wild-type Ras in human liver cancer. J. Hepatology. 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.

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.

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

Victor Marquez

Kwon MJ, Kim SS, Choi YL, Jung HS, Balch C, Kim SH, Song YS, **Marquez VE**, Nephew KN, and Shin YK: Derepression of *CLDN3* and *CLDN4* during ovarian tumorigenesis is associated with loss of repressive histone modifications. *Carcinogenesis*. 31(6): 974-983, 2010. (CBL)

Barbara Vonderhaar

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