

## CCR MANUSCRIPT NOTIFICATION (FEBRUARY 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.

Rasmussen RA, Siddappa NB, Lakhashe S, Watkins J, Villinger F, Ibegbu C, Florese RH, **Robert-Guroff M**, Montefiori DC, Forthal DN, O'Connor D, and Ruprecht RM for the Clade C Program Project Group: High-level, lasting antiviral immunity induced by a bimodal AIDS vaccine and boosted by live-virus exposure: prevention of viremia. *AIDS*. 26: 149-155, 2012. (VB)

Qureshi H, Ma ZM, Huang Y, Hodge G, Thomas MA, DiPasquale J, DeSilva V, Fritts L, Bett AJ, Casimiro D, Shiver JW, **Robert-Guroff M**, Robertson MN, McChesney MB, Gilbert PB, and Miller CJ: Low dose penile SIV<sub>mac251</sub> exposure of rhesus macaques infected with adenovirus type 5 (Ad5) and then immunized with a replication defective Ad5-based SIV gag/pol/nef vaccine recapitulates the results of the Phase IIb Step trial of a similar HIV-1 vaccine. *J.Virol*. 86: 2239-2250, 2012. (VB)

Xiao P, Patterson LJ, Kuate S, Brocca-Cofano E, Thomas MA, Venzon D, Zhao J, DiPasquale J, Fenizia C, Lee EM, Kalisz I, Kalyanaraman VS, Pal R, Montefiori D, Keele BF, and **Robert-Guroff M**: Replicating adenovirus-SIV recombinant priming and envelope protein boosting elicits localized, mucosal IgA immunity in rhesus macaques correlated with delayed acquisition following a repeated low dose rectal SIV<sub>mac251</sub> challenge. *J. Virol*. In press. (VB)

### CCR Nanobiology Program - Robert Blumenthal, Ph.D.

Adler MJ and **Dimitrov DS**: Therapeutic antibodies against cancer. *Hematol. Oncol. Clin. North Am*. In press. (CCRNP)

Chen W, Streaker ED, Russ DE, Prabakaran P, Feng Y, and **Dimitrov DS**: Characterization of germline antibody libraries from human umbilical cord blood and selection of monoclonal antibodies to viral envelope glycoproteins: implications for mechanisms of immune evasion and design of vaccine immunogens. *Biochem. Biophys. Res. Comm*. In press. (CCRNP)

Gong R, Chen W, and **Dimitrov DS**: Candidate antibody-based therapeutics against HIV-1. *Biodrugs*. In press. (CCRNP)

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

There were no submissions reported this month.

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

Chen B, Zuo X, **Wang YX**, and Dayie TK: Multiple conformations of SAM-II riboswitch detected with SAXS and NMR spectroscopy. *Nucleic Acids Res.* 39: 1-14, 2011. (SBL)

Burke JE, Sashital DG, Zuo X, **Wang YX**, and Butcher SE: Structure of the yeast U2/U6 snRNA complex. *RNA*. In press. (SBL)

Avvakumov GV, Walker JR, Xue S, Allali-Hassani A, Asinas A, Nair UB, Fang X, Zuo X, **Wang YX**, Wilkinson KD, and Dhe-Paganon S: Two ZnF-UBP Domains in Isopeptidase T (USP5). *Biochemistry.* 51(6): 1188-1198, 2012. (SBL)

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

There were no submissions reported this month.

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

Kobayashi H and **Choyke PL**: Response to Comment on "Rapid Cancer Detection by Topically Spraying a  $\gamma$ -Glutamyltranspeptidase-Activated Fluorescent Probe". *Sci Transl Med.* 4(121): 1211r1, 2012. (MIP)

Mena E, Turkbey B, Mani H, Adler S, Valera VA, Bernardo M, Shah V, Pohida T, McKinney Y, Kwarteng G, Daar D, Lindenberg ML, Eclarinal P, Wade R, **Linehan WM**, **Merino MJ**, **Pinto PA**, **Choyke PL**, and Kurdziel KA: 11C-Acetate PET/CT in Localized Prostate Cancer: A Study with MRI and Histopathologic Correlation. *J Nucl Med.* In press. (MIP)

Barentsz JO, Richenberg J, Clements R, **Choyke P**, Verma S, Villeirs G, Rouviere O, Logager V, and Fütterer JJ: ESUR prostate MR guidelines 2012. *Eur Radiol.* In press. (MIP)

Histed SN, Lindenberg ML, Mena E, Turkbey B, **Choyke PL**, and Kurdziel KA: Review of functional/anatomical imaging in oncology. *Nucl Med Commun.* In press. (MIP)

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

Naranjo-Suarez S, Carlson BA, Tsuji PA, Yoo MH, Gladyshev VN, and **Hatfield DL**: HIF-Independent regulation of thioredoxin reductase 1 contributes to the high levels of reactive oxygen species induced by hypoxia. *PLoS One.* 7(2): e30470, 2012. (LCP)

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

There were no submissions reported this month.

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

Stein WD, Wilkerson J, Kim ST, Huang X, **Fojo AT**, Motzer RJ, and **Bates SE**: Analyzing the pivotal trial that compared sunitinib and interferon alfa in renal cell carcinoma, using a method that assesses tumor regression and growth. *Clin Cancer Res.* In press. (MOB)

**Bates SE**: A millennium goal for cancer. *Clin Cancer Res.* 18(3): 606, 2012. (MOB)

Wang C, Liu Z, Woo CW, Li Z, Wang L, Wei JS, **Marquez VE**, **Bates SE**, Jin Q, Khan J, Ge K, and **Thiele CJ**: EZH2 Mediates epigenetic silencing of neuroblastoma suppressor genes CASZ1, CLU, RUNX3, and NGFR. *Cancer Res.* 72(1): 315-324, 2012. (MOB)

**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**: Ipilimumab and a poxviral vaccine targeting prostate-specific antigen in metastatic castration-resistant prostate cancer: a phase 1 dose-escalation trial. *Lancet Oncol.* In press. (MOB)

Chen X, Peer CJ, Alfaro R, Tian T, Spencer SD, and **Figg WD**: Quantification of irinotecan, SN38, and SN38G in human and porcine plasma by ultra high-performance liquid chromatography-tandem mass spectrometry and its application to hepatic chemoembolization. *J Pharm Biomed Anal.* 62: 140-148, 2012. (MOB)

Campbell T, Tindall DJ, and **Figg WD**: Dihydrotestosterone synthesis from adrenal precursors does not involve testosterone in castration-resistant prostate cancer. *Cancer Biol Ther.* In press. (MOB)

Peer CJ, Sissung TM, Kim A, Jain L, Woo S, Gardner ER, Kirkland CT, Troutman SM, English BC, Richardson ED, Federspiel JD, Venzon D, **Dahut B**, **Kohn EC**, **Kummar S**, **Yarchoan R**, **Giaccone G**, **Widemann BC**, and **Figg WD**: Sorafenib is an Inhibitor of UGT1A1 but is Metabolized by UGT1A9: Implications of Genetic Variants on Pharmacokinetics and Hyperbilirubinemia. *Clin Cancer Res.* In press. (MOB)

Gardner ER, Kelly M, Springman E, Lee KJ, Li H, Moore W, and **Figg WD**: Antiangiogenic and antitumor activity of LP-261, a novel oral tubulin binding agent, alone and in combination with bevacizumab. *Invest New Drugs.* 30(1): 90-97, 2012. (MOB)

Richardson ED, Price DK, and **Figg WD**: Significant addition to treatment options for bone metastasis in prostate cancer. *Cancer Biol Ther.* 13(2): 69-70, 2012. (MOB)

Sissung TM, Troutman SM, Campbell TJ, Pressler HM, Sung H, **Bates SE**, and **Figg WD**: Transporter pharmacogenetics: Transporter polymorphisms affect normal physiology, diseases, and pharmacotherapy. *Discov Med.* 13(68): 19-34, 2012. (MOB)

Murphy RF, Komlodi-Pasztor E, Robey R, Balis FM, Farrell NP, and **Fojo T**: Retained platinum uptake and indifference to p53 status make novel transplatinum agents active in platinum-resistant cells compared to cisplatin and oxaliplatin. *Cell Cycle.* In press. (MOB)

Fonte JS, Robles JF, Chen CC, Reynolds J, Whatley M, Ling A, Mercado-Asis LB, Adams KT, Martucci V, **Fojo T**, and Pacak K: False-negative 123I-MIBG SPECT is most commonly found in SDHB-related pheochromocytoma or paraganglioma with high frequency to develop metastatic disease. *Endocr Relat Cancer.* 19(1): 83-93, 2012. (MOB)

Blagoev KB, Wilkerson J, and **Fojo T**: Hazard ratios in cancer clinical trials-a primer. *Nat Rev Clin Oncol.* In press. (MOB)

Carter CA and **Giaccone G**: Treatment of nonsmall cell lung cancer: overcoming the resistance to epidermal growth factor receptor inhibitors. *Curr Opin Oncol.* 24(2): 123-129, 2012. (MOB)

Zhao F, Hoechst B, Duffy A, Gamrekelashvili J, Fioravanti S, Manns MP, **Greten TF**, and Korangy F: S100A9 a new marker for monocytic human myeloid derived suppressor cells. *Immunology.* In press. (MOB)

Mineo M, Garfield SH, Taverna S, Flugy A, De Leo G, Alessandro R, and **Kohn EC**: Exosomes released by K562 chronic myeloid leukemia cells promote angiogenesis in a src-dependent fashion. *Angiogenesis.* 15(1): 33-45, 2012. (MOB)

Yu M, Henning R, Walker A, Kim G, Perroy A, Alessandro R, Virador V, and **Kohn EC**: L-Asparaginase Inhibits Invasive And Angiogenic Activity And Induces Autophagy In Ovarian Cancer. *J Cell Mol Med.* In press. (MOB)

Lodish M, Dagalakis U, Chen CC, Sinaii N, Whitcomb P, Aikin A, Dombi E, Marcus L, **Widemann B**, Fox E, Chuk M, Balis F, **Wells Jr S**, and Stratakis CA: 111In-Octreotide Scintigraphy for Identification of Metastatic Medullary Thyroid Carcinoma in Children and Adolescents. *J Clin Endocrinol Metab.* 97(2): E207-212, 2012. (MOB)

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

Rosell M, Hondares E, Iwamoto S, **Gonzalez FJ**, Wabitsch M, Staels B, Giralt M, Iglesias R, and Villarroya F: Peroxisome proliferator activated receptors-alpha and -gamma, and cAMP-mediated pathways control retinol-binding protein-4 gene expression in brown and white adipose tissue. *Endocrinology.* In press. (LM)

Pang XY, Cheng J, Kim JH, Matsubara T, Krausz KW, and **Gonzalez FJ**: Expression and regulation of human fetal-specific CYP3A7 in mice. *Endocrinology*. In press. (LM)

Sarkar K, Rey S, Zhang X, Sebastian R, Marti GP, Fox-Talbot K, Cardona AV, Du J, Tan YS, Liu L, Lay F, **Gonzalez FJ**, Harmon JW, and Semenza GL: Tie2-dependent knockout of HIF-1 impairs burn wound vascularization and homing of bone marrow-derived angiogenic cells. *Circ. Res.* In press. (LM)

Stokes RA, Cheng K, Deters N, Lau SM, Hawthorne WJ, O'Connell PJ, Grey S, Loudovaris T, Kay TW, Thomas H, **Gonzalez FJ**, and Gunton JE: Hypoxia-inducible factor (HIF)-1 $\alpha$  potentiates beta-cell survival after islet transplantation of human and mouse islets. *Cell Transpl.* In press. (LM)

Jennings BL, Anderson LJ, Estes AM, Yaghini FA, Fang XR, Porter J, **Gonzalez FJ**, Campbell WB, and Malik KU: Cytochrome P450 1B1 contributes to renal dysfunction and damage caused by angiotensin II in mice. *Hypertension*. In press. (LM)

Düfer M, Hörth K, Wagner R, Schittenhelm B, Prowald S, Wagner TFJ, Oberwinkler J, Lukowski R, **Gonzalez FJ**, Krippeit-Drews P, and Drews G: Bile acids acutely stimulate insulin secretion of mouse beta-cells via farnesoid X receptor activation and KATP channel inhibition. *Diabetes*. In press. (LM)

Bongard R, Myers C, Lindemer B, Baumgardt S, **Gonzalez FJ**, and Merker M: Coenzyme Q1 as a probe for mitochondrial complex I activity in the intact perfused hyperoxia-exposed wild-type and *Nqo1*-null mouse lung. *Am. J Physiol. - Lung Cell. Molec. Physiol.* In press. (LM)

Bonzo JA, Ferry CH, Matsubara T, Kim JH, and **Gonzalez FJ**: Acute disruption of hepatocyte nuclear factor 4a initiates hepatocyte proliferation. *J. Biol. Chem.* In press. (LM)

Tanaka N, Matsubara T, Krausz KW, Patterson AD, and **Gonzalez FJ**: Disruption of phospholipid and bile acid homeostasis in mice with nonalcoholic steatohepatitis. *Hepatology*. In press. (LM)

Patterson AD, Shah YM, Matsubara T, Krausz KW, and **Gonzalez FJ**: PPAR $\alpha$ -dependent induction of uncoupling protein 2 protects against acetaminophen-induced liver toxicity. *Hepatology*. In press. (LM)

Peters JM, Foreman JE, and **Gonzalez FJ**: Dissecting the role of peroxisome proliferator-activated receptor-beta/delta (PPAR $\beta$ /delta) in colon, breast and lung carcinogenesis. *Cancer Metastasis Rev.* 30: 619-640, 2011. (LM)

Peters JM, Shah YM, and **Gonzalez FJ**: Role of peroxisome proliferator-activated receptors in chemical carcinogenesis. *Nature Cancer Rev.* In press. (LM)

Johnson CH and **Gonzalez FJ**: Challenges and opportunities of metabolomics. J. Cell. Physiol. In press. (LM)

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

Migliaccio A, Castoria G, de Falco A, Bilancio A, Giovannelli P, Di Donato M, Marino I, Yamaguchi H, **Appella E**, and Auricchio F: Polyproline and Tat transduction peptides in the study of the rapid actions of steroid receptors. Steroids. In press. (LCB)

Shaffer BC, Gillet JP, Patel C, Baer MR, **Bates SE** and **Gottesman MM**: Drug resistance: Still a daunting challenge to the successful treatment of AML. Drug Resist. Updat. 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.**

There were no submissions reported this month.

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

**Misteli T**: Parallel genome universes. Nat Biotechnol. 30(1): 55-56, 2012. (LRBGE)

Pegoraro G, Voss T, Martin SE, Tuzmen P, Guha R, and **Misteli T**: Identification of Mammalian Protein Quality Control Factors by High-Throughput Cellular Imaging. PLoS One. In press. (LRBGE)

Mueller F, Morisaki T, Mazza D and **McNally JG**: Minimizing the impact of photoswitching of fluorescent proteins on FRAP analysis. Biophys. J. 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.**

Del Prete GQ, Kearney MF, Spindler J, Wiegand A, Chertova E, Roser JD, Estes JD, Hao XP, Trubey CM, Lara A, Lee K, Chaipan C, Bess Jr JW, Nagashima K, Keele BF, Macallister R, Smedley J, **Pathak VK**, **KewalRamani V**, Coffin JM, and Lifson JD: Restricted replication of xenotropic murine leukemia virus-related virus in pigtailed macaques. J. Virol. 86: 3152-3166, 2012. (HVIB)

Kearney MF, Spindler J, Wiegand A, Shao W, Anderson EM, **Maldarelli F**, **Ruscetti FW**, Mellors JW, **Hughes SH**, **Le Grice SFJ**, and Coffin JM: Multiple sources of contamination in samples from patients reported to have XMRV infection. PLoS ONE. 7(2): e30889, 2012. (HVIB)

Palmer S, Boltz VF, Chow JY, Martinson NA, McIntyre JA, Gray GE, Hopley MJ, Mayers D, Robinson P, Hall DB, **Maldarelli F**, Coffin JM, and Mellors JW: For the 1100.1413 Trial Investigators: Short-course combivir after single-dose nevirapine reduces but does not eliminate the emergence of nevirapine resistance in women. Antiviral Ther. In press. (HVIB)

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

Aloia AL, Duffy L, Pak V, Lee K, Sanchez-Martinez S, Derse D, Heidecker G, Cornetta K, and **Rein A**: A reporter system for replication-competent gammaretroviruses: The in*Gluc*-MLV-DERSE assay. Gene Therapy. In press. (RRL)

Ambrose Z, Lee K, Ndjomou J, Xu H, Oztop I, Matous J, Takemura T, Unutmaz D, Engelman A, **Hughes S**, and **KewalRamani V**: Human immunodeficiency virus type 1 (HIV-1) capsid mutation N74D alters cyclophilin A dependence and impairs macrophage infection. J. Virol. In press. (RRL)

Barrioluengo V, Wang Y, **Le Grice SFJ**, and Menéndez-Arias L: Intrinsic DNA synthesis fidelity of xenotropic murine leukemia virus-related virus reverse transcriptase. FEBS J. In press. (RRL)

Boyer PL, Clark PK, and **Hughes SH**: HIV-1 and HIV-2 reverse transcriptases: Different mechanisms of resistance to nucleoside reverse transcriptase inhibitors. J. Virol. In press. (RRL)

Das K, Arnold E, and **Hughes SH**: HIV-1 reverse transcriptase structures. Lennarz WJ and Lane MD (Eds.). In: Encyclopedia of Biological Chemistry, 2nd Edition, Elsevier, in press. (RRL)

Delviks-Frankenberry KA, Chaipan C, Bagni R, Wyvill K, **Yarchoan R**, and **Pathak VK**: Lack of detection of xenotropic murine leukemia virus-related virus in HIV-1 lymphoma patients. Adv. Virol. Vol. 2011, article ID 797820, 4 pages, 2011. (RRL)

Kuo L and **Freed EO**: ARRDC1 as a mediator of microvesicle budding. Proc. Natl. Acad. Sci. USA. In press. (RRL)

Lee K, Mulky A, Yuen W, Martin TD, Meyerson NR, Choi L, Yu H, Sawyer SL, and **KewalRamani VN**: HIV-1 capsid targeting domain of cleavage and polyadenylation specificity factor 6. J. Virol. In press. (RRL)

Li Y, Ferris A, Lewis BC, Orsulic S, Williams BO, Holland EC, and **Hughes SH**: The RCAS/TVA somatic gene transfer method in modeling human cancer. In: Genetically Engineered Mice for Cancer Research, Springer Publications, in press. (RRL)

Metifiot M, Johnson B, Smith S, Zhao X, Marchand C, **Burke Jr T, Hughes SH, and Pommier Y**: MK-0536 inhibits HIV-1 integrases resistant to raltegravir. *Antimicrob. Agents Chemother.* In press. (RRL)

Ndongwe T, Adedeji A, Michailidis E, Ong Y-T, Hachiya A, Marchand B, Ryan E, Rai DK, Kirby KA, Liu S-L, Whatley A, Burke DH, Johnson M, Ding S, Zheng Y-M, Liu S-L, Kodama E-I, Delviks-Frankenberry KA, **Pathak VK, Mitsuya H**, Parniak MA, Singh K, and Sarafianos SG: Biochemical, inhibition and resistance studies of xenotropic murine leukemia virus-related virus reverse transcriptase. *Nucleic Acids Res.* 40: 345-359, 2012. (RRL)

Sfanos KS, Aloia AL, De Marzo AM, and **Rein A**: XMRV and prostate cancer—a 'final' perspective. *Nat. Rev. Urol.* 9: 111-118, 2012. (RRL)

Waheed AA and **Freed EO**: HIV type 1 Gag as a target for antiviral therapy. *AIDS Res. Hum. Retroviruses.* 28: 54-75, 2012. (RRL)

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

### **Cell and Cancer Biology Branch - Kathleen Kelly, Ph.D.**

Bruno RD, Boulanger CA, and **Smith GH**: Notch-induced mammary tumorigenesis does not involve the lobule-limited epithelial progenitor. *Oncogene.* 31(1): 60-67, 2012. (CCBB)

Bruno RD and **Smith GH**: Role of epithelial stem/progenitor cells in mammary cancer. *Gene Expr.* 15(3): 133-140, 2011. (CCBB)

### **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.**

Onozawa M and **Aplan PD**: Illegitimate V(D)J recombination involving nonantigen receptor loci in lymphoid malignancy. *Genes Chromosomes Cancer*. In press. (GB)

Greenblatt S, Li L, Slape C, Nguyen B, Novak R, Duffield A, Huso D, Desiderio S, Borowitz MJ, **Aplan P**, and Small D: Knock-in of a FLT3/ITD mutation cooperates with a NUP98-HOXD13 fusion to generate acute myeloid leukemia in a mouse model. *Blood*. In press. (GB)

Gough SM, Slape CI, and **Aplan PD**: NUP98 gene fusions and hematopoietic malignancies: common themes and new biologic insights. *Blood*. 118(24): 6247-6257, 2011. (GB)

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 Cancer*. In press. (GB)

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

Simmons J, Amlin-Van Schaick JC, Geiger TR, **Reilly K**, **Hunter K**, and **Mock BA**: Mouse genetics 2011: meeting report. *Mamm Genome*. In press. (LCBG)

Li M, He Y, Dubois W, Wu X, Shi J and **Huang J**: Distinct regulatory mechanisms and functions of p53 activated and p53 repressed DNA damage response genes in embryonic stem cells. *Molecular Cell*. In press. (LCBG)

Li M, HeY, Feng X, and **Huang J**: Genome-wide studies of the transcriptional regulation by p53. *Biochem Biophys Acta*. In press. (LCBG)

Geczy T, Peach ML, El Kazzouli S, Sigano D, Kang JH, Valle CJ, Selezneva J, Woo W, Kedei N, Lewin NE, Garfield SH, Lim L, Mannan P, **Marquez VE** and **Blumberg PM**: Molecular basis for the failure of the "atypical" C1 domain of Vav1 to bind diacylglycerol/ phorbol ester. *J Biol Chem*. In press. (LCBG)

Webster JD, Michalowski AM, Dwyer JE, Corps KN, Wei B-R, Juopperi T, Hoover S, and **Simpson RM**: Investigation into diagnostic agreement using automated computer- assisted histopathology pattern recognition image analysis. *J. Pathol. Informatics*. In press. (LCBG)

**Green JE** and **Ried T** (Eds.): *Genetically-engineered Mice for Cancer Research: design, analysis, pathways, validation and pre-clinical testing*. Springer NY. In press . (LCBG)

DeCicco-Skinner K, Deshpande M and **Wiest JS**: The role of Tpl2 protein kinase in carcinogenesis and inflammation. Da Siva Xavier G( Ed). In: Protein Kinase/Book2, ISBN. 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 Genomic Integrity – Andre Nussenzweig, Ph.D.**

Bunting, SF, Callen E, Kozak ML, Kim Jung-Min, Wong N, Lopez-Contreras AJ, Ludwig T, Baer R, Faryabi RB, Malhowski A, Chen HT, Fernandez-Capetillo F, D'Andrea A, and **Nussenzweig A**: BRAC 1 functions independently of homologous recombination in DNA interstrand cross-link repair. Mol Cell. In press. (LGI)

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

Eberle FC, Song JY, Xi L, **Raffeld M**, Harris NL, **Wilson WH**, Pittaluga S, and **Jaffe ES**: Nodal involvement by cutaneous CD30-positive T-cell lymphoma mimicking classical Hodgkin lymphoma. Am J. Surg. Pathol. In press. (LP)

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

Chandramohan V, Sampson JH, **Pastan I**, and Bigner DD: Toxin-based therapy for malignant brain tumors. Clin. Dev. Immunol. 1-15, 2012. (LMB)

Bera TK, Walker DA, Sherins RJ, and **Pastan I**: POTE protein, a cancer-testis antigen, is highly expressed in spermatids in human testis and is associated with apoptotic cells. Biochem. Biophys. Res. Commun. 417: 1271-1274, 2012. (LMB)

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

Williams M, Burdsal C, Periasamy A, **Lewandoski M**, and Sutherland A: Mouse primitive streak forms in situ by initiation of epithelial to mesenchymal transition without migration of a cell population. Dev. Dyn. 241: 270-283, 2012. (CDBL)

Tsukiyama T and **Yamaguchi TP**: Mice lacking *Wnt2b* are viable and display a postnatal olfactory bulb phenotype. *Neuroscience Lett.* In press. (CDBL)

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

Ruan X, Kocher JP, **Pommier Y**, Liu H, and Reinhold WC: Mass homozygotes accumulation in the NCI-60 cancer cell lines as compared to HapMap trios, and relation to fragile site location. *PLoS One.* 7: e31628, 2012. (LMP)

Agrawal A, Desoto J, Fullagar JL, Maddali K, Rostami S, Richman DD, **Pommier Y**, and Cohen SM: Probing chelation motifs in HIV integrase inhibitors. *Proc. Natl. Acad. Sci USA.* 109: 2251-2256, 2012. (LMP)

Zeeberg BR, Reinhold W, Snajder R, Thallinger GG, Weinstein JN, **Kohn KW**, and **Pommier Y**: Functional categories associated with clusters of genes that are co-expressed across the NCI-60 cancer cell lines. *PLoS One.* 7: e30317, 2012. (LMP)

Taskar KS, Rudraraju V, Mittapalli RK, Samala R, Thorsheim HR, Lockman J, Gril B, Hua E, Palmieri D, Polli JW, Castellino S, Rubin SD, Lockman PR, **Steeg PS**, and Smith QR: Lapatinib distribution in HER2 overexpressing experimental brain metastases of breast cancer. *Pharm. Res.* 29: 770-781, 2012. (LMP)

Weyemi U, Parekh PR, Redon CE, and **Bonner WM**: SOD2 deficiency promotes aging phenotypes in mouse skin. *Aging.* In press. (LMP)

Bergmann JH, Jakubsche JN, Martins NM, Kagansky A, Nakano M, Kimura H, Kelly DA, Turner BM, Masumoto H, **Larionov V**, and Earnshaw WC: Epigenetic engineering: histone H3K9 acetylation is compatible with kinetochore structure and function. *J. Cell Sci.* In press. (LMP)

Conner AL and **Aladjem MI**: The chromatin backdrop of DNA replication: lessons from genetics and genome-scale analyses. *Biochim. Biophys. Acta.* In press. (LMP)

Kiselev E, Agama K, **Pommier Y**, and Cushman M: Azaindenoisoquinolines as topoisomerase I inhibitors and potential anticancer agents: a systematic study of structure-activity relationships. *J. 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.**

**Schlom J:** Perspective: Recent advances in therapeutic cancer vaccines. *Cancer Biother Radiopharm.* 27: 2-5, 2012. (LTIB)

Takai S, Sabzevari H, Farsaci B, **Schlom J**, and Greiner JW: Distinct effects of saracatinib on memory CD8<sup>+</sup> T-cell differentiation. *J Immunol.* 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.**

Koch KR, Zhang CO, Kaczmarek P, **Barchi Jr J**, Guo L, Shahjee HM, and Keay S: The effect of a novel frizzled 8-related antiproliferative factor on in vitro carcinoma and melanoma cell proliferation and invasion. *Invest New Drugs.* In press. (CBL)

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

Andersen JB, Spee B, Blechacz BR, Avital I, Komuta M, Barbour A, Conner EA, Roskams T, Roberts LR, Factor VM, and **Thorgeirsson SS:** Genomic and Genetic Characterization of Cholangiocarcinoma Identifies Therapeutic Targets for Tyrosine Kinase Inhibitors. *Gastroenterology.* In press. (LEC)

Andersen JB and **Thorgeirsson SS**: Genetic Profiling of Intrahepatic Cholangiocarcinoma. Current Opinion in Gastroenterology. In press. (LEC)

**Thorgeirsson SS**: The central role of the c-Met pathway in rebuilding the liver. Gut. In press. (LEC)

Lee SB, Seo D, Choi D, Park KY, Holczbauer A, Marquardt JU, Conner EA, Factor VM, **Thorgeirsson SS**: Contribution of hepatic lineage stage-specific donor memory to the differential potential of induced mouse pluripotent stem cells (iPSC). Stem Cells. In press. (LEC)

Zimonjic DB and **Popescu NC**: Role of DLC1 tumor suppressor gene and MYC oncogene in pathogenesis of human hepatocellular carcinoma; potential prospects for combined targeted therapeutics. Int J. Oncol. 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.**

Zhou D, Chung S, Miller M, **Le Grice SFJ**, and **Wlodawer A**: Crystal structures of the reverse transcriptase-associated ribonuclease H domain of xenotropic murine leukemia-virus related virus. J. Struct. Biol. In press. (MCL)

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Glesner J, Wünschmann S, Li M, Gustchina A, **Wlodawer A**, Himly M, Chapman MD, and Pomés A: Mechanisms of allergen-antibody interaction of cockroach allergen Bla g 2 with monoclonal antibodies that inhibit IgE antibody binding. *PLoS ONE.* 6: e22223, 2011. (MCL)

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Bhaumik P, Xiao H, Hidaka K, Gustchina A, Kiso Y, Yada RY, and **Wlodawer A**: Structural insights into activation and inhibition of histone-aspartic protease from Plasmodium falciparum. Biochemistry. 50: 8862-8879, 2011. (MCL)

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Yan H and **Ji X**: Role of protein conformational dynamics in the catalysis by 6-hydroxymethyl-7,8-dihydropterin pyrophosphokinase. *Protein Pept. Lett.* 18: 328-335, 2011. (MCL)

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Brzezinski K, **Dauter Z**, and Jaskolski M: Crystal structures of NodZ  $\alpha$ 1,6-fucosyltransferase in complex with GDP and GDP-fucose. Acta Cryst. D68: 160-168, 2012. (MCL)

Brzezinski K, **Dauter Z**, and Jaskolski M: High-resolution crystal structures of complexes of plant *S*-adenosyl-L-homocysteine hydrolase (*Lupinus luteus*). Acta Cryst. D68. In press. (MCL)

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

There were no submissions reported this month.

## **Basic Research Laboratory**

### **Cheryl Winkler**

Limou S, Delaneau O, van Manen D, An P, Sezgin E, Le Clerc S, Coulonges C, Troyer JL, Veldink JH, van den Berg LH, Spadoni J-L, Taing L, Labib T, Montes M, Delfraissy J-F, Schachter F, O'Brien SJ, Buchbinder S, van Natta ML, Jabs DA, Froguel P, Schuitemaker H, **Winkler CA**, and Zagury J-F: Multicohort Genomewide Association Study Reveals a New Signal of Protection Against HIV-1 Acquisition. *J. Infect. Dis.* In press. (BRL)

### **Emeritus Scientists**

There were no submissions reported this month.