

CCR MANUSCRIPT NOTIFICATION (JANUARY 2011)

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.

Grabow WW, Zakrevsky P, Afonin KA, Chworos A, **Shapiro BA**, and Jaeger L: Self-assembling RNA nanorings based on RNAI/II inverse kissing complexes. *Nano Letters*. In press. (CCRNP)

Kang J-G, Pripuzova N, Majerciak V, Kruhlak M, Le S-Y, and **Zheng Z-M**: Kaposi Sarcoma-associated herpesvirus ORF57 promotes escape of viral and human il6 from microRNA-mediated suppression. *J. Virol*. In press. (CCRNP; PI: **Shapiro BA**)

Miller Y, Ma B, and **Nussinov R**: The unique Alzheimer's β -amyloid triangular fibril has a cavity along the fibril axis under physiological conditions. *J. Amer. Chem. Soc.* In press. (CCRNP)

Parthasarathy S, Long F, Miller Y, Xiao Y, McElheny D, Thurber K, Ma B, **Nussinov R**, and Ishii Y: Molecular-level examination of Cu^{2+} binding structure for amyloid fibrils of 4-residue Alzheimer's β by solid-state NMR spectroscopy. *J. Amer. Chem. Soc.* 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.

Yan C, Altunbas A, Yucel T, Nagarkar RP, **Schneider JP**, and Pochan DJ: Injectable solid hydrogel: mechanism of shear-thinning and immediate recovery of injectable beta-harpin peptide hydrogels. *Royal Society of Chemistry, Soft Matter*. 6: 5143-5156, 2010. (CBL)

Radiation Oncology Branch - Kevin Camphausen, M.D.

Jamal M, Rath BH, Williams ES, **Camphausen K**, and **Tofilon PJ**: Microenvironmental regulation of glioblastoma radio response. *Clin Cancer Res.* 16(24): 6049-6059, 2010. (ROB)

Metaferia BB, Rittler M, Gheeya JS, Lee A, Hempel H, Plaza A, **Stetler-Stevenson WG**, Bewley CA, and **Khan J**: Synthesis of novel cyclic NGR/RGD peptide analogs via on resin click chemistry. *Bioorg Med Chem Lett.* 20(24): 7337-7340, 2010. (ROB)

Molecular Imaging Program - Peter Choyke, M.D.

Kummar S, Gutierrez ME, Chen A, Turkbey IB, Allen D, Horneffer YR, Juwara L, Cao L, Yu Y, Kim YS, Trepel J, Chen H, **Choyke P**, Melillo G, Murgu AJ, Collins J, and Doroshov JH: Phase I trial of vandetanib and bevacizumab evaluating the VEGF and EGF signal transduction pathways in adults with solid tumours and lymphomas. *Eur J Cancer.* In press. (MIP)

Rastinehad AR, Baccala Jr AA, Chung PH, Proano JM, Kruecker J, Xu S, Locklin JK, Turkbey B, Shih J, **Bratslavsky G**, **Linehan WM**, Glossop ND, Yan P, Kadoury S, **Choyke PL**, Wood BJ, and **Pinto PA**: D'Amico Risk Stratification Correlates With Degree of Suspicion of Prostate Cancer on Multiparametric Magnetic Resonance Imaging. *J Urol.* In press. (MIP)

Mena E, **Choyke P**, Tan E, **Landgren O**, and Kurdziel K: Molecular imaging in myeloma precursor disease. *Semin Hematol.* 48(1): 22-31, 2011. (MIP)

Turbey B, Shah VP, Pang Y, Bernardo M, Xu S, Kruecker J, Locklin J, Baccala Jr AA, Rastinehad AR, **Merino MJ**, Shih JH, Wood BJ, **Pinto PA**, and **Choyke PL**: Is Apparent Diffusion Coefficient Associated with Clinical Risk Scores for Prostate Cancers that Are Visible on 3-T MR Images? *Radiology.* In press. (MIP)

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

Labunskyy VM, Lee BC, Handy DE, Loscalzo J, **Hatfield DL**, and Gladyshev VN: Both maximal expression of selenoproteins and selenoprotein deficiency can promote development of type 2 diabetes-like phenotype in mice. *Antioxid Redox Signal.* In press. (LCP)

Malinouski M, Zhou Y, Belousov VV, **Hatfield DL**, and Gladyshev VN: Hydrogen peroxide probes directed to different cellular compartments. *Plos One.* 6(1): e14564, 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.

Kelly RJ, Draper D, Chen CC, Robey RW, **Figg WD**, Piekarz RL, Chen X, Gardner ER, Balis FM, Venkatesan AM, Steinberg SM, **Fojo T**, and **Bates SE**: A Pharmacodynamic Study of Docetaxel in Combination with the P-glycoprotein Antagonist Tariquidar (XR9576) in Patients with Lung, Ovarian, and Cervical Cancer. *Clin Cancer Res*. In press. (MOB)

Figg II WD and **Figg WD**: Cabazitaxel: Filling one of the gaps in the treatment of prostate cancer. *Cancer Biol Ther*. 10(12): 1233-1234, 2011. (MOB)

Pluta RM, Oldfield EH, Bakhtian KD, Fathi AR, Smith RK, Devroom HL, Nahavandi M, Woo S, **Figg WD**, and Lonser RR: Safety and Feasibility of Long-term Intravenous Sodium Nitrite Infusion in Healthy Volunteers. *PLoS One*. 6(1): e14504, 2011. (MOB)

Martiniova L, Perera SM, Brouwers FM, Alesci S, Abu-Asab M, Marvelle AF, Kiesewetter DO, Thomasson D, **Morris JC**, Kvetnansky R, Tischler AS, Reynolds JC, **Fojo AT**, and Pacak K: Increased uptake of [123I]meta-iodobenzylguanidine, [18F]fluorodopamine, and [3H]norepinephrine in mouse pheochromocytoma cells and tumors after treatment with the histone deacetylase inhibitors. *Endocr. Relat Cancer*. 18(1): 143-157, 2011. (MOB)

Harada T, Yatabe Y, Takeshita M, Koga T, Yano T, Wang Y, and **Giaccone G**: Role and relevance of TrkB mutations and expression in non-small cell lung cancer. *Clin Cancer Res*. In press(MOB)

Kelly RJ, Rajan A, Force J, Keen C, Cao L, Yu Y, **Choyke PL**, Turkbey B, **Raffeld M**, Xi L, Steinberg SM, Wright JJ, Lopez-Chavez A, **Kummar S**, Guttierrez M, and **Giaccone G**: Evaluation of KRAS mutations, angiogenic biomarkers and DCE-MRI in patients with advanced non-small cell lung cancer receiving sorafenib. *Clin Cancer Res*. In press. (MOB)

Greten TF, Manns MP, and Korangy F: Myeloid derived suppressor cells in human diseases. *Int Immunopharmacol*. In press.(MOB)

Corrado C, Raimondo S, Flugy AM, Fontana S, Santoro A, Stassi G, Marfia A, Iovino F, Arlinghaus R, **Kohn EC**, Leo GD, and Alessandro R: Carboxyamidotriazole inhibits cell growth of imatinib-resistant chronic myeloid leukaemia cells including T315I Bcr-Abl mutant by a redox-mediated mechanism. *Cancer Lett*. 300(2): 205-214, 2011. (MOB)

Kamrava M, Gius D, Casagrande G, and **Kohn E**: Will targeting insulin growth factor help us or hurt us? An oncologist's perspective. *Ageing Res Rev*. 10(1): 62-70, 2011. (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.* 120(1): 5-10, 2011. (MOB)

Landgren O, Polliack A, and Tadmor T: Associations between multiple myeloma and other malignancies. *Leuk Lymphoma.* In press. (MOB)

Landgren O and Rajkumar SV: Development of early treatment strategies for high-risk myeloma precursor disease in the future. *Semin Hematol.* 48(1): 66-72, 2011. (MOB)

Minter AR, Simpson H, Weiss BM, and **Landgren O**: Bone disease from monoclonal gammopathy of undetermined significance to multiple myeloma: pathogenesis, interventions, and future opportunities. *Semin Hematol.* 48(1): 55-65, 2011. (MOB)

Kristinsson SY, Björkholm M, Schulman S, and **Landgren O**: Hypercoagulability in multiple myeloma and its precursor state, monoclonal gammopathy of undetermined significance. *Semin Hematol.* 48(1): 46-54, 2011. (MOB)

Calvo KR, **Landgren O**, Roccaro AM, and Ghobrial IM: Role of MicroRNAs From Monoclonal Gammopathy of Undetermined Significance to Multiple Myeloma. *Semin Hematol.* 48(1): 39-45, 2011. (MOB)

Mena E, **Choyke P**, Tan E, **Landgren O**, and Kurdziel K: Molecular imaging in myeloma precursor disease. *Semin Hematol.* 48(1): 22-31, 2011. (MOB)

Landgren O: Multiple myeloma precursor disease: current clinical dilemma and future opportunities. *Semin Hematol.* 48(1): 1-3, 2011. (MOB)

Laboratory of Metabolism - Frank Gonzalez, Ph.D.

There were no submissions reported this month.

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

There were no submissions reported this month.

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.

Luco F, Allo M, Schor IE, Kornblihtt AR and **Misteli T**: Epigenetics in alternative pre-mRNA splicing. *Cell*. 144: 16-26, 2011. (LRBGE)

Misteli T: HGPS-derived iPS cells for the ages. *Cell Stem Cell*. 8: 4-6, 2011. (LRBGE)

Kubben N, Voncken JW and **Misteli T**: Mapping of protein- and chromatin-interactions at the nuclear lamina. *Nucleus*. 1: 460-471, 2010. (LRBGE)

Kubben N, Voncken JW, Demmers J, Calis C, van Almen G, Pinto Y and **Misteli T**: Identification of differential protein interactors of lamin A and progerin. *Nucleus*. 1: 513-525, 2010. (LRBGE)

John S, Sabo PJ, Thurman RE, Sung MH, Biddie SC, Johnson TA, **Hager GL**, and Stamatoyannopoulos JA: Chromatin accessibility pre-determines glucocorticoid receptor binding patterns. *Nat. Genet.* In press. (LRBGE)

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

Meinhold CL, Berrington de González A, Bowman ED, Brenner AV, Jones RT, Lacey Jr JV, Loffredo CA, Perlmutter D, Schonfeld SJ, Trivers GE, and **Harris CC**: Reproductive and hormonal factors and the risk of nonsmall cell lung cancer. *International J. Cancer*. In press. (LHC)

Schwartz AG, Wenzlaff AS, Bock CH, Ruterbusch JJ, Chen W, Cote ML, Artis A, Van Dyke AL, Land S, **Harris CC**, Pine S, Spitz M, Amos CI, Levin AM, and McKeigue P: Admixture Mapping of Lung Cancer in 1,812 African Americans. *Carcinogenesis*. In press. (LHC)

Woo HG, **Wang XW**, Budhu A, Kim YH, Kwon SM, Tang ZY, Sun Z, **Harris CC**, and **Thorgeirsson SS**: Association of TP53 Mutations with Stem Cell-Like Gene Expression and Survival of Patients with Hepatocellular Carcinoma. *Gastroenterology*. In press. (LHC)

Saito M, Kumamoto K, Robles AI, Horikawa I, Furusato B, Okamura S, Goto A, Yamashita T, Nagashima M, Lee TL, Baxendale VJ, Rennert OM, Takenoshita S, Yokota J, Sesterhenn IA, Trivers GE, **Hussain SP**, and **Harris CC**: Targeted disruption of *Ing2* results in defective spermatogenesis and development of soft-tissue sarcomas. *PLoS One*. 19: e15541, 2010. (LHC)

Nguyen GH, Schetter AJ, Chou DB, Bowman ED, Zhao R, Hawkes JE, Mathé EA, Kumamoto K, Zhao Y, Budhu A, Hagiwara N, **Wang XW**, Miyashita M, Casson AG, and **Harris CC**: Inflammatory and microRNA gene expression as prognostic classifier of Barrett's-associated esophageal adenocarcinoma. *Clinical Cancer Res*. 16: 5824-5834, 2010. (LHC)

Olivo-Marston SE, Mechanic LE, Mollerup S, Bowman ED, Remaley AT, Forman MR, Skaug V, Zheng YL, Haugen A, and **Harris CC**: Serum estrogen and tumor-positive estrogen receptor-alpha are strong prognostic classifiers of non-small-cell lung cancer survival in both men and women. *Carcinogenesis*. 31: 1778-1786, 2010. (LHC)

Pine SR, Ryan BM, Varticovski L, Robles AI, and **Harris CC**: Microenvironmental modulation of asymmetric cell division in human lung cancer cells. *Proc Natl Acad Sci USA*. 107: 2195-2200, 2010. (LHC)

Fujita F, Horikawa I, Mondal A, Jenkins L, **Appella E**, Vojtesek B, Bourdon JC, Lane D, and **Harris CC**: Positive feedback between p53 and TRF2 in telomere damage signaling and cellular senescence. *Nat Cell Biol*. 12: 1205-1212, 2010. (LHC)

Budhu A and **Wang XW**: Power Play: Scoring our goals for liver cancer with better GWAS study design. *J Hepatology*. In press. (LHC)

Cairo S, Wang Y, Reynies AD, Duroure K, Dahan J, Redon MJ, Fabre M, McClelland M, **Wang XW**, Croce CM, and Buendia MA: A stem cell-like microRNA signature driven by Myc in aggressive liver cancer. *Proc Natl Acad Sci USA*. 107: 20471-20476, 2010. (LHC)

Ji J, Yamashita T, and **Wang XW**: Wnt/beta-catenin Signaling Activates MicroRNA-181 Expression in Hepatocellular Carcinoma. *Cell & Bioscience*. 2045: 3701-1-4, 2011. (LHC)

Kumar M, Zhao X, and **Wang XW**: Molecular carcinogenesis of hepatocellular carcinoma and cholangiocarcinoma. *Cell & Bioscience*. 2045: 3701-1-5, 2011. (LHC)

Roessler S, Jia HL, Budhu A, Forgues M, Ye QH, Lee JS, **Thorgeirsson SS**, Tang ZY, Qin LX, and **Wang XW**: A Unique Metastasis Gene Signature Enables Prediction of Tumor Relapse in Early Stage Hepatocellular Carcinoma Patients. *Cancer Res*. 70: 10202-10212, 2010. (LHC)

Ambis S and Glynn SA: Candidate pathways linking inducible nitric oxide synthase to a basal-like transcription pattern and tumor progression in human breast cancer. *Cell Cycle*. In press. (LHC)

HIV Drug Resistance Program - Stephen Hughes, Ph.D.

HIV DRP Host Virus Interaction Branch - Stephen Hughes, Ph.D.

Catalfamo M, Wilhelm C, Tcheung L, Proschan M, Friesen T, Park JH, Adelsberger J, Baseler M, **Maldarelli F**, Davey R, Roby G, Rehm C, and Lane C: CD4 and CD8 T cell immune activation during chronic HIV infection: Roles of homeostasis, HIV, type I IFN, and IL-7. *J. Immunol*. 186: 2106-2116, 2011. (HVIB; PI: **Hughes SH**)

Retroviral Replication Laboratory - Stephen Hughes, Ph.D.

Lengruher RB, Delviks-Frankenberry KA, Nikolenko GN, Baumann J, Santos AF, **Pathak VK**, and Soares MA: Phenotypic characterization of drug resistance-associated mutations in HIV-1 RT connection and RNase H domains and their correlation with thymidine analogue mutations. *J. Antimicrob. Chemother.* 66: 702-708, 2011. (RRL)

Nikolaitchik OA, Galli A, Moore MD, **Pathak VK**, and **Hu W-S**: Multiple barriers to recombination between divergent HIV-1 variants revealed by a dual marker Recombination Assay. *J. Mol. Biol.* 407: 521-531, 2011. (RRL)

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

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.

There were no submissions reported this month.

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

Raifman O, Kolusheva S, El Kazzouli S, Sigano D, Kedei N, Lewin NE, Lopez-Nicholas R, Ortiz-Espin A, Gomez-Fernandez JC, **Blumberg PM**, **Marquez VE**, Corbalan S and Jelinek R: Membrane-surface anchoring of charged diacylglycerol-lactones correlates with biological activities. *Chembiochem.* 11(14): 2003-2009, 2010. (LCBG)

Lim KS, Kang DW, Kim YS, Kim MS, Park SG, Choi S, Pearce LV, **Blumberg PM** and Lee J: Receptor activity and conformational analysis of 5'-halogenated resiniferatoxin analogues as TRPV1 ligands. *Bioorg Med Chem Lett.* 21(1): 299-302, 2011. (LCBG)

Ohashi N, Nomura W, Narumi T, Lewin NE, Itotani K, **Blumberg PM** and Tamamura H: Fluorescent-responsive synthetic C 1b domains of protein kinase Cdelta as reporters of specific high-affinity ligand binding affinity. *Bioconjug Chem.* 22(1): 82-87, 2011. (LCBG)

Kim HK, Reyzer ML, Choi IJ, Kim CG, Kim HS, Oshima A, Chertov O, Colantonio S, Fisher RJ, Allen JA, Caprioli RM and **Green JE**: A gastric cancer-specific protein profile identified using endoscopic biopsy samples via MALDI mass spectrometry. *J Proteome Res.* 9: 4123-4130, 2010. (LCBG)

Das S, Bosley AD, Ye X, Chan KC, Chu I, **Green JE**, Issaq H, Veenstra TD and Andresson T: Comparison of strong cation exchange and SDS/PAGE fractionation for analysis of multi-protein complex. *J Proteome Res.* 9: 6696-6704, 2010. (LCBG)

Chi-Ping D, Carter J, Bonomi C, Hollingshead M and **Merlino G**: The preclinical therapeutic response of residual metastatic disease is distinct from its primary tumor of origin. *International J Cancer.* In press. (LCBG)

Kim HK, Choi IJ, 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. *The Pharmacogenomics Journal.* In press. (LCBG)

Kim HK, Choi IJ, Kim CG, Kim HS, Kook M-C, Oshima A, Michalowski AM and **Green JE**: A gene expression signature of acquired chemoresistance : prediction of initial response of gastric cancer to therapy and relationship to primary resistance signature. *PLoS One.* In press. (LCBG)

Nomura W, Narumi T, Ohashi N, Serzawa Y, Lewin NE, **Blumberg PM**, Furuta T and Tamamura H: Synthetic caged DAG-lactones for photochemically controlled activation of protein kinase C. *ChemBioChem.* In press. (LCBG)

Blumberg PM, Pearce LV and Lee J: TRPV1 activation is not an all-or-none event: TRPV1 partial agonism/antagonism and its regulatory modulation. *Curr. Topics Med. Chem.* 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.

Abu-Asab MS, Chaouchi M, Alesci S, Galli S, Laassri M, Cheema AK, Atouf F, Van Meter J, and Amri H: Biomarkers in the age of omics: Time for a systems biology approach. OMICS. In press. (LP; PI: **Oberholtzer JC**)

Campo E, Swerdlow SH, Harris NL, Pikeri S, Stein H, and **Jaffe ES**: (Perspective) The 2008 WHO classification of lymphoid neoplasms and beyond – evolving concepts and practical applications. Blood. In press. (LP)

Frazier EP, Isenberg JS, Zhao L, Pappan L, Dimitry J, Abu-Asab MS, **Tsokos M, Roberts DD**, and Frazier WA: Age-dependent regulation of skeletal muscle mitochondria by the thrombospondin-1 receptor CD47. Matrix Biol. In press. (LP)

Jaffe ES: (Editorial). Centralized review offers promise for the clinician, the pathologist, and the patient with newly diagnosed lymphoma. J. Clin. Oncol. In press. (LP)

Kaur S and **Roberts DD**: CD47 applies the brakes to angiogenesis via vascular endothelial growth factor receptor-2. Cell Cycle. 10(1): 10-12, 2011. (LP)

Summers TA and **Jaffe ES**: Hairy cell leukemia: diagnostic criteria and differential diagnosis. Leukemia and Lymphoma. In press. (LP)

Tembhare P, Yuan CM, Xi L, Morris JC, Liewehr D, Venzon D, Janik JE, **Raffeld M**, and **Stetler-Stevenson M**: Flow cytometric immunophenotypic assessment of T-cell clonality by V beta repertoire analysis: Detection of T cell clonality at diagnosis and monitoring of minimal residual disease following therapy. Am. J. Clin. Pathol. 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.

Hershman JM, **Cheng SY**, and Gianoukakis AG: Update in thyroidology. J. Clin. Endocrinol. Metab. 96: 9-14, 2011. (LMB)

Wang L, Abbasi F, Jasper GA, **Kreitman RJ**, Liewehr DJ, Marti GE, and **Stetler-Stevenson M**: Variables in the quantification of CD4 in normals and hairy cell leukemia patients. *Cytometry B Clin. Cytom.* 80: 51-56, 2011. (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.

Redon CE, Nakamura AJ, Sordet O, Dickey JS, Gouliaeva K, Tabb B, Lawrence S, Kinders RJ, **Bonner WM** and Sedelnikova OA: gamma-H2AX detection in peripheral blood lymphocytes, splenocytes, bone marrow, xenografts and skin. *Methods Mol. Biol.* 682: 249-270, 2011. (LMP)

Noskov VN, Chuang RY, Gibson DG, Leem SH, **Larionov V**, and Kouprina N: Isolation of circular yeast artificial chromosomes for synthetic biology and functional genomics studies. *Nat. Protoc.* 6: 89-96, 2011. (LMP)

Tang J, Maddali K, Dreis CD, Sham YY, Vince R, **Pommier Y**, and Wang Z: N-3 hydroxylation of pyrimidine-2, 4-diones yields dual inhibitors of HIV reverse transcriptase and integrase. *Med. Chem. Letts.* 2: 63-67, 2011. (LMP)

Ivashkevich AN, Martin OA, Smith AJ, Redon CE, **Bonner WM**, Martin RJ, and Lobachevsky PN: gamma-H2AX foci as a measure of DNA damage: a computational approach to automatic analysis. *Mutat. Res.* In press. (LMP)

Ricci A, Marinello J, Bortolus M, Sanchez A, Grandas A, Pedroso E, **Pommier Y**, Capranico G, Maniero AL, and Zagotto G: Electron paramagnetic resonance (EPR) study of spin-labeled camptothecin derivatives: a different look of the ternary complex. *J. Med. Chem.* In press. (LMP)

Chen CF, He X, Arslan AD, Mo YY, Reinhold WC, **Pommier Y**, and Beck WT: Novel regulation of NF-YB by miR-485-3p affects expression of DNA topoisomerase II{alpha} and drug responsiveness. *Mol. Pharmacol.* In press. (LMP)

Zhang YW, Regairaz M, Seiler JA, Agama KK, **Doroshov JH**, and **Pommier Y**: Poly(ADP-ribose) polymerase and XPF-ERCC1 participate in distinct pathways for the repair of topoisomerase I-induced DNA damage in mammalian cells. *Nucl. Acids Res.* In press. (LMP)

Maddali K, Kumar V, Marchand C, **Pommier Y**, and Malhotra SV: Biological evaluation of imidazolium- and ammonium-based salts as HIV-1 integrase inhibitors. *Med. Chem. Comm.* 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.

There were no submissions reported this month.

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.

Weiss JM, Ridnour LA, Back T, **Hussain SP**, He P, Maciag AE, **Keefer LK**, Murphy WJ, **Harris CC**, **Wink DA**, and **Wiltrout RH**: Macrophage-dependent nitric oxide expression regulates tumor cell detachment and metastasis after IL-2/anti-CD40 immunotherapy. J Experimental Med. In press. (LEI)

Lau-Kilby AW, Kretz CC, Pechhold S, Price JD, Dorta S, Ramos H, **Trinchieri G**, and Tarbell KV: Interleukin-2 inhibits FMS-like tyrosine kinase 3 receptor ligand (flt3L)-dependent development and function of conventional and plasmacytoid dendritic cells. Proc Natl Acad Sci USA. 108: 2408-2413, 2011. (LEI)

Savan R, McFarland AP, Reynolds DA, Feigenbaum L, Ramakrishnan K, Karwan M, Shirota H, **Klinman DM**, Dunleavy K, Pittaluga S, **Anderson SK**, Donnelly RP, **Wilson WH**, and **Young HA**: A novel role for IL-22R1 as a driver of inflammation. *Blood*. 117: 575-584, 2011. (LEI)

Erlich RL, Jia X, Anderson S, Banks E, Gao X, **Carrington M**, Gupta N, DePristo MA, Henn MR, Lennon NJ, and de Bakker PIW: Next-generation sequencing for HLA typing of class I loci. *BMC Genomics*. 12: 42, 2011. (LEI)

O'Connor SL, Lhost JJ, Becker EA, Detmer AM, Johnson RC, MacNair, CE, Wiseman RW, Karl JA, Greene JM, Burwitz BJ, Bimber BN, Lank SM, Tuscher JJ, Mee ET, Rose NJ, Desrosiers RC, Hughes AL, Friedrich TC, **Carrington M**, and O'Connor DH: MHC heterozygote advantage in simian immunodeficiency virus-infected mauritian cynomolgus macaques. *Sci. Transl. Med.* 2: 22ra18, 2010. (LEI)

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.

Landry J, **Wu C**, **Singer A**, **Aplan PD**, Taylor B, and Subhadra B: Chromatin Remodeling Complex NURF Regulates Thymocyte Maturation. *Genes and Development*. In press. (LBMB)

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

There were no submissions reported this month.