

CCR MANUSCRIPT NOTIFICATION (NOVEMBER 2010)

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

Shukla S, Fujita K, Xiao Q, Liao Z, Garfield S, and **Srinivasula SM**: A shear stress responsive gene product PP1201 protects against Fas-mediated apoptosis by reducing Fas expression on the cell surface. Apoptosis. In press. (LICB)

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

Palermo RE, Patterson, LJ, Aicher LD, Korth MJ, **Robert-Guroff M**, and Katze MG: Genomic analysis reveals pre- and postchallenge differences in a rhesus macaque AIDS vaccine trial: insights into mechanisms of vaccine efficacy. J. Virol. In press. (VB)

CCR Nanobiology Program - Robert Blumenthal, Ph.D.

Kim T, **Barchi J**, **Marquez VE**, and **Shapiro BA**: Understanding the effects of carbocyclic sugars constrained to north and south conformations on RNA nanodesign. J. Mol. Graphics Mod. In press. (CCRNP)

Le SY and **Shapiro BA**: Data mining of functional RNA structures in genomic sequences. WIREs Data Mining and Knowledge Discovery. In press. (CCRNP)

Le SY and **Shapiro BA**: Characterization of structural features for small regulatory RNAs in *Escherichia coli* genomes. IEEE Internatl. Conf. Bioinform. Biomed. 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.

Rughani RV, Branco MC, Pochan DJ, and **Schneider JP**: De Novo design of a shear-thin recoverable peptide-based hydrogel capable of intrafibrillar photopolymerization. *Macromolecules*. 43: 7924-7930, 2010. (CBL)

Branco MC, Pochan DJ, Wagner NJ, and **Schneider JP**: The effect of protein structure on their controlled release from an injectable peptide hydrogel. *Biomaterials*. 31: 9527-9534, 2010. (CBL)

Liao CZ, Park JE, Bank JK, **Nicklaus MC**, and **Lee KS**: Probing binding modes of small molecule inhibitors to the polo-box domain of human polo-like kinase 1. *ACS Med Chem Lett*. 1: 110-114, 2010. (CBL)

Chuk MK, Cole DE, McCully C, Loktionova NA, Pegg AE, Parker RJ, Pauly G, **Widemann BC**, Balis FM, and Fox E: Plasma and CNS pharmacokinetics of O4-benzylfolic acid (O4BF) and metabolite in a non-human primate model. *Cancer Chemother Pharmacol*. In press. (CBL; PI: **Schneider JP**)

Xu M, Wang F, **Gildersleeve JC**, and Achilefu S: Mab L9E10 to blood group H2 antigen binds to colon cancer stem cells and inhibits tumor cell migration and invasion. *Hybridoma*. 29: 355-359, 2010. (CBL)

Radiation Oncology Branch - Kevin Camphausen, M.D.

There were no submissions reported this month.

Molecular Imaging Program - Peter Choyke, M.D.

Bumb A, Regino CA, Egen JG, Bernardo M, Dobson PJ, Germain RN, **Choyke PL**, and **Brechbiel MW**: Trafficking of a Dual-Modality Magnetic Resonance and Fluorescence Imaging Superparamagnetic Iron Oxide-Based Nanoprobe to Lymph Nodes. *Mol Imaging Biol*. In press. (MIP)

Kobayashi H and **Choyke PL**: Target-Cancer-Cell-Specific Activatable Fluorescence Imaging Probes: Rational Design and in Vivo Applications. *Acc Chem Res*. In press. (MIP)

Sena LM, Fishman SJ, Jenkins KJ, Xu H, **Brechbiel MW**, Regino CA, Kosaka N, Bernardo M, **Choyke PL**, and **Kobayashi H**: Magnetic resonance lymphangiography with a nano-sized gadolinium-labeled dendrimer in small and large animal models. *Nanomedicine (Lond)*. 5(8): 1183-1191, 2010. (MIP)

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

Mathews LA, Hurt EM, Zhang X, and **Farrar WL**: Epigenetic regulation of CpG promoter methylation in invasive prostate cancer cells. *Mol Cancer*. 9: 267, 2010. (LCP)

Xu X, Turanov A, Carlson B, Yoo M, Everley R, Nandakumar R, Sorokina I, Gygi S, Gladyshev V, **Hatfield DL**: Targeted insertion of cysteine by decoding UGA codons with mammalian selenocysteine machinery. *Proc. Natl. Acad. Sci. USA*. In press. (LCP)

Li X, Zhang X, Cmarik JL, and **Ruscetti S**: Importance of macrophage inflammatory protein-1 α and splenic macrophages in neurodegeneration induced by PVC-211 murine leukemia virus. *Virology*. 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.

Stein WD, **Gulley J**, **Schlom J**, Madan RA, **Dahut B**, **Figg WD**, Ning YM, Arlen PM, Price DK, **Bates SE**, and **Fojo AT**: Tumor regression and growth rates determined in five intramural NCI prostate cancer trials. The growth rate as an indicator of therapeutic efficacy. *Clin Cancer Res*. In press. (MOB)

Sissung TM, Gardner ER, Piekarz RL, Howden R, Chen X, Woo S, Franke RM, Clark JA, Miller-Degraff L, Steinberg SM, Venzon D, Liewehr DJ, Kleeberger SR, **Bates SE**, Price DK, Rosing DR, Cabell C, Sparreboom A, and **Figg WD**: Impact of ABCB1 allelic variants on QTc interval prolongation. *Clin Cancer Res*. In press. (MOB)

Kelly RJ, Draper D, Chen CC, Robey RW, **Figg WD**, Piekarz RL, Chen X, Gardner ER, Balis FM, Venkatesan AM, Steinberg SM, **Fojo AT**, 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)

Sissung TM, Danesi R, Kirkland CT, Baum CE, Ockers SB, Stein EV, Venzon D, Price DK, and **Figg WD**: Estrogen Receptor {alpha} and Aromatase Polymorphisms Affect Risk, Prognosis, and Therapeutic Outcome in Men with Castration-Resistant Prostate Cancer Treated with Docetaxel-Based Therapy. *J Clin Endocrinol Metab*. In press. (MOB)

Freedman AN, Sansbury LB, **Figg WD**, Potosky AL, Weiss Smith SR, Khoury MJ, Nelson SA, Weinshilboum RM, Ratain MJ, McLeod HL, Epstein RS, Ginsburg GS, Schilsky RL, Liu G, Flockhart DA, Ulrich CM, Davis RL, Lesko LJ, Zineh I, Randhawa G, Ambrosone CB, Relling MV, Rothman N, Xie H, Spitz MR, Ballard-Barbash R, **Doroshov JH**, and Minasian LM: Cancer Pharmacogenomics and Pharmacoepidemiology: Setting a Research Agenda to Accelerate Translation. *J Natl Cancer Inst.* 102(22): 1698-1705, 2010. (MOB)

Jain L, Gardner ER, Venitz J, **Giaccone G**, Houk BE, and **Figg WD**: Determination of PF-04928473 in human plasma using liquid chromatography with tandem mass spectrometry. *J Chromatogr B Analyt Technol Biomed Life Sci.* 878(30): 3187-3192, 2010. (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.* In press. (MOB)

Voortman J, Goto A, Mendiboure J, Sohn JJ, Schetter AJ, Saito M, Dunant A, Pham TC, Petrini I, Lee A, Khan MA, Hainaut P, Pignon JP, Brambilla E, Popper HH, Filipits M, **Harris CC**, and **Giaccone G**: MicroRNA expression and clinical outcomes in patients treated with adjuvant chemotherapy after complete resection of non-small cell lung carcinoma. *Cancer Res.* 70(21): 8288-8298, 2010. (MOB)

Killian JK, Walker RL, Suuriniemi M, Jones L, Scurci S, Singh P, Cornelison R, Harmon S, Boisvert N, Zhu J, Wang Y, Bilke S, Davis S, **Giaccone G**, Smith Jr WI, and **Meltzer PS**: Archival fine-needle aspiration cytopathology (FNAC) samples: untapped resource for clinical molecular profiling. *J Mol Diagn.* 12(6): 739-745, 2010. (MOB)

Ma W, Kantarjian H, Zhang K, Zhang X, Wang X, Chen C, Donahue AC, Zhang ZJ, Yeh CH, O'Brien S, Garcia-Manero G, Caporaso N, **Landgren O**, and Albitar M: Significant association between polymorphism of the erythropoietin gene promoter and myelodysplastic syndrome. *BMC Med Genet.* 11(1): 163, 2010. (MOB)

Landgren AM, **Landgren O**, Gridley G, Dores GM, Linet MS, and Morton LM: Autoimmune disease and subsequent risk of developing alimentary tract cancers among 4.5 million US male veterans. *Cancer.* In press. (MOB)

Kaneko K, Ueki K, Takahashi N, Hashimoto S, Okamoto M, Awazawa M, Okazaki Y, Ohsugi M, Inabe K, Umehara T, Yoshida M, Kakei M, Kitamura T, **Luo J**, Kulkarni RN, Kahn CR, Kasai H, Cantley LC, and Kadowaki T: Class IA Phosphatidylinositol 3-Kinase in Pancreatic β Cells Controls Insulin Secretion by Multiple Mechanisms. *Cell Metab.* 12(6): 619-632, 2010. (MOB)

Laboratory of Metabolism - Frank Gonzalez, Ph.D.

There were no submissions reported this month.

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

Yun S, Yun S and **Guy HR**: Analysis of the stabilities of hexameric amyloid- β (1-42) models using Discrete Molecular Dynamics simulations. *J Mol Graphics Modelling*. 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.

Weber C, Gill RK, Diekmann S, and **Dalal Y**: Tetrameric Organization of Vertebrate Centromeric nucleosomes Emilios K Dimitriadis. *Proc. Natl. Acad. Sci. USA*. In press. (LRBGE)

Sung MH and **McNally JG**: Live cell imaging and systems biology. Wiley. *Interdiscip. Rev. Syst. Biol Med*. In press. (LRBGE)

Dull AB, Goncharova E, **Hager GL**, and **McMahon JB**: Development of an image analysis screen for estrogen receptor alpha (ER α) ligands through measurement of nuclear translocation dynamics. *J. Steroid Biochem. Mol. Biol.* 122: 341-351, 2010. (LRBGE)

Wiench M and **Hager GL**: Expanding horizons for nuclear receptors. *EMBO Rep.* 8: 569-571, 2010. (LRBGE)

Kuipers MA, Stasevich TJ, Sasaki T, Wilson KA, Hazelwood KL, **McNally JG**, Davidson MW and Gilbert DM: Highly stable loading of Mcm proteins onto chromatin in living cells requires replication to unload. *J. Cell Biol.* In press. (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)

Scaffidi P and **Misteli T**: Cancer Epigenetics: From disruption of differentiation programs to the emergence of cancer stem cells. *Cold Spring Harbor Symposium on Quantitative Biology*. In press. (LRBGE)

Misteli T: Higher order chromatin organization in disease. In: *The Nucleus. Cold Spring Harbor Perspectives in Biology*. Tom Misteli and David Spector (Eds.). Cold Spring Harbor Press. In press. (LRBGE)

Dundr M and **Misteli T**: Biogenesis of Nuclear Bodies. In: The Nucleus. Cold Spring Harbor Perspectives in Biology. Tom Misteli and David Spector (Eds.). Cold Spring Harbor Press. In press. (LRBGE)

Roukos V, **Misteli T**, and Schmidt CK: Descriptive no more: The dawn of high-throughput microscopy. Trends in Cell Biol. 20: 503-506, 2010. (LRBGE)

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

There were no submissions reported this month.

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

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

There were no submissions reported this month.

Retroviral Replication Laboratory - Stephen Hughes, Ph.D.

There were no submissions reported this month.

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

Fuhrman BJ, Xu X, Falk RT, Hankinson SE, Veenstra TD, **Keefer LK**, and Ziegler RG: Stability of 15 estrogens and estrogen metabolites in urine samples under processing and storage conditions typically used in epidemiologic studies. Int J Biol Markers. In press. (LCC)

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

There were no submissions reported this month.

Urologic Oncology Branch - W. Marston Linehan, M.D.

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

Wolf R, Mascia F, Dharmasi A, Howard OMZ, Cataisson C, Bliskovski V, Winston J, Feigenbaum L, Lichti U, Ruzicka T, Chavakis T and **Yuspa SH**: A Gene from a psoriasis susceptibility locus primes the skin for inflammation. *Science Translational Medicine*. In press. (LCBG)

Zaidi MR, Davis S, Noonan FP, Graff-Cherry C, Hawley TS, Walker RL, Feigenbaum L, Fuchs E, Lyakh L, **Young HA, Hornyak TJ**, Arnheiter H, **Trinchieri G, Meltzer PS**, De Fabo EC and **Merlino G**: Interferon- γ links UV to melanocyte activation and promotes melanomagenesis. *Nature*. 469: 548-553, 2011. (LCBG)

Wei B-R, Martin PL, Hoover SB, Spehalski E, Kumar M, Hoenerhoff MJ, Rozenberg J, **Vinson C** and **Simpson M**: Capacity for resolution of Ras-Map-initiated early pathogenic myocardial hypertrophy modeled in mice. *Comparative Medicine*. In press. (LCBG)

Moayeri M, Crown D, Newman Z, Eckhaus M, Cataisson C, Liu S, Okugawa S, Sastalla I and Leppla SH: Inflammasome sensor Nlrp1b-dependent resistance to anthrax is mediated by caspase-1, IL-1 signaling and neutrophil recruitment. *PLoS Pathogens*. In press. (LCBG; PI: **Yuspa SH**)

Radiation Biology Branch - James Mitchell, Ph.D.

There were no submissions reported this month.

Laboratory of Cell and Developmental Signaling - Debbie Morrison, Ph.D.

There were no submissions reported this month.

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

Miller TW, Isenberg JS, Shih HB, Wang Y, and **Roberts DD**: β -amyloid inhibits NO-cGMP signaling in a CD36- and CD47-dependent manner. *PLoS One*. In press. (LP)

Roberts DD: Activate Rac to rescue new vessels. *Blood*. In press. (LP)

Vela-Chávez T, Adam P, Kremer M, Bink K, Bacon CM, Menon G, Ferry JA, Fend F, **Jaffe ES**, and Quintanilla-Martínez L: Cyclin D1 positive diffuse large B-cell lymphoma (*de novo* and Richter's transformation) is a post-germinal center-type lymphoma without alterations in the CCND1 gene locus. *Leukemia and Lymphoma*. In press. (LP)

Venkataraman G, Raffeld M, Pittaluga S, and **Jaffe ES**: CD15 expressing nodular lymphocyte predominant Hodgkin's lymphoma. Histopathology. In press. (LP)

Venkataraman G, Rizzo KA, Chavez JJ, Streubel B, **Raffeld M, Jaffe ES, and Pittaluga S**: Marginal zone lymphomas involving meningeal dura: Possible link to IgG4-related diseases. Modern 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.

Sharma AK and **FitzGerald D**: Pseudomonas exotoxin kills Drosophila S2 cells via apoptosis. Toxicol. 56: 1025-1034, 2010. (LMB)

Yu L, Feng M, Kim H, Phung Y, Kleiner DE, Gores GJ, Qian M, Wang XW, and **Ho M**: Mesothelin as a potential therapeutic target in human cholangiocarcinoma. J. Cancer 1: 141-149, 2010. (LMB)

Jauregui-Osoro M, Sunassee K, Weeks AJ, Berry DJ, Paul RL, Cleiji M, Banga JP, O'Doherty MJ, Marsden PK, Clarke SE, Ballinger JR, Szanda I, **Cheng SY**, and Blower PJ: Synthesis and biological evaluation of [(18)F] tetrafluorobor: a PET imaging agent for thyroid disease and reporter gene imaging of the sodium/iodide symporter. Eur. J. Nucl. Med. Mol. Imaging. 37: 2108-2116, 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.

Kinders RJ, Hollingshead M, Lawrence S, Ji J, Tabb B, Bonner WM, **Pommier Y**, Rubinstein L, Evrard YA, Parchment RE, Tomaszewski J, and **Doroshov JH**: Development of a validated immunofluorescence assay for γ H2AX as a pharmacodynamic marker of topoisomerase I inhibitor activity. Clin Cancer Res. 16: 5447-5457, 2010. (LMP)

Gril B, Palmieri D, Qian Y, Smart D, Ileva L, Liewehr DJ, Steinberg SM, and **Steeg PS**: Pazopanib reveals a role for tumor cell B-Raf in the prevention of HER2+ breast cancer brain metastasis. Clin Cancer Res. In press. (LMP)

Kazuki Y, Hoshiya H, Takiguchi M, Abe S, Iida Y, Osaki M, Katoh M, Hiratsuka M, Shirayoshi Y, Hiramatsu K, Ueno E, Kajitani N, Yoshino T, Kazuki K, Ishihara C, Takehara S, Tsuji S, Ejima F, Toyoda A, Sakaki Y, **Larionov V**, Kouprina N, and Oshimura M: Refined human artificial chromosome vectors for gene therapy and animal transgenesis. *Gene Ther.* In press. (LMP)

Wu N, Wu XW, Agama K, **Pommier Y**, Du J, Li D, Gu LQ, Huang ZS and An LK: A novel DNA topoisomerase I inhibitor with different mechanism from camptothecin induces G2/M phase cell cycle arrest to K562 cells. *Biochemistry.* 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)

Booth BW, Boulanger CA, Anderson LH, and **Smith GH**: The normal mammary microenvironment suppresses the tumorigenic phenotype of mouse mammary tumor virus-neu-transformed mammary tumor cells. *Oncogene.* In press. (MBTL)

Visvader JE and **Smith GH**: Murine Mammary Epithelial Stem Cells: Discovery, Function, and Current Status. In: *Cold Spring Harbor Perspectives: The Mammary Gland as an Experimental Model.* In press. (MBTL)

Bussard KM, Boulanger CA, Kittrell FS, Behbod F, Medina D, and **Smith GH**: Immortalized, Pre-malignant Epithelial Cell Populations Contain Long-Lived, Label-Retaining Cells that Asymmetrically Divide and Retain Their Template DNA. *Breast Cancer Res.* In press. (MBTL)

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.

Smith H, Maricque B, Eberhardt J, Petersen B, **Gulley JL, Schlom J**, and McNeel DG: IgG responses to tissue-associated antigens as biomarkers of immunological treatment efficacy. *J Biomed Biotech.* In press (LTIB)

Experimental Immunology Branch - Alfred Singer, M.D.

There were no submissions reported this month.

Gene Regulation and Chromosome Biology Lab - Jeffrey Strathern, Ph.D.

There were no submissions reported this month.

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

Low JSW, Tao Q, Ng KM, Goh HK, Woo WL, Ambinder RF, Srivastava G, Shamay M, Chan ATC, **Popescu NC**, and Hsieh W-S: A novel isoform of the 8p22 tumor suppressor gene *DLC1* suppresses tumor growth and is frequently silenced in multiple common tumors. *Oncogene*. In press. (LEC)

Woo HG, Wang XW, Budhu A, Kim YH, Kwon SM, Tang ZY, Sun Z, **Harris CC**, and **Thorgeirsson SS**: TP53 mutations in hepatocellular carcinoma: association with survival and stem cell-like gene Expression Traits. *Gastroenterology*. 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.

Martin MP, Borecki IB, Zhang Z, Nguyen L, Ma D, Gao X, Qi Y, **Carrington M**, and Rader JS: HLA-Cw group 1 ligands for KIR increase susceptibility to invasive cervical cancer. *Immunogenetics*. 62(11-12): 761-765, 2010. (LEI)

Martin MP, Qi Y, Goedert JJ, Hussain SK, Kirk GD, Hoots WK, Buchbinder S, **Carrington M**, and Thio CL: IL28B polymorphism does not determine outcomes of hepatitis B virus or HIV infection. *Infect Dis*. 202(11): 1749-1753, 2010. (LEI)

Hiby SE, Apps R, Sharkey AM, Farrell LE, Gardner L, Mulder A, Claas FH, Walker JJ, Redman CC, Morgan L, Tower C, Regan L, Moore GE, **Carrington M**, and Moffett A: Maternal activating KIR protect against human reproductive failure mediated by fetal HLA-C2. *J. Clin. Invest*. 120: 4102-4110, 2010. (LEI)

Smrž D, Iwaki S, **McVicar DW**, Metcalfe DD, and Gilfillan AM: TLR-mediated signaling pathways circumvent the requirement for DAP12 in mast cells for the induction of inflammatory mediator release. *Eur J Immunol*. 40: 3557-3569, 2010. (LEI)

Van Prooyen N, Gold H, Andresen V, Schwartz O, Jones K, **Ruscetti F**, Lockett S, Gudla P, Venzon D, and **Franchini G**: Human T-cell leukemia virus type 1 p8 protein increases cellular conduits and virus transmission. *Proc Natl Acad Sci*. 170: 20738-20743, 2010. (LEI)

Liu X, Ryland L, Yang J, Liao A, Aliaga C, Watts R, Tan SF, Kaiser J, Shanmugavelandy SS, Rogers A, Loughran K, Petersen B, Yuen J, Meng F, Baab KT, Jarbadan NR, Broeg K, Zhang R, Liao J, **Sayers TJ**, Kester M, and Loughran Jr TP: Targeting of survivin by nanoliposomal ceramide induces complete remission in a rat model of NK-LGL leukemia. *Blood*. 116(20): 4192-4201, 2010. (LEI)

Whitson EL, Thomas CL, Henrich CJ, **Sayers TJ**, **McMahon JB**, and McKee TC: Clerodane Diterpenes from *Casearia arguta* That Act As Synergistic TRAIL Sensitizers. *J Nat Prod*. 73: 2013-2018, 2010. (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*. In press. (LEI)

Donnelly RP, Sheikh F, Dickensheets H, Savan R, **Young HA**, and Walter MR: Interleukin-26: An IL-10-related cytokine produced by Th17 cells. *Cytokine Growth Factor Rev*. 5: 393-401, 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.

Metzger MB and **Weissman AM**: Working on a chain: E3s ganging up for ubiquitylation. *Nature Cell Biol*. In press. (LPDS)

Macromolecular Crystallography Laboratory - Alexander Wlodawer, Ph.D.

There were no submissions reported this month.

Laboratory of Biochemistry and Molecular Biology - Carl Wu, Ph.D.

Lipardi C and **Paterson BM**: Identification of an RNA polymerase in *Drosophila* establishes a

common theme in RNA silencing. Fly Austin. 4(1): 30-35, 2010. (LBMB)

Luk E, Ranjan A, FitzGerald PC, Mizuguchi G, Huang Y, Wei D and **Wu C**: Stepwise Histone Replacement by SWR1 Requires Dual Activation with Histone H2A.Z and Canonical Nucleosome. *Cell*. 143: 1-12, 2010. (LBMB)

Demarre G and **Chattoraj DK**: DNA adenine methylation is required to replicate both *Vibrio cholerae* chromosomes once per cell cycle. *PLoS Genet*. 6: e1000939, 2010. (LBMB)

Hansen DF, Feng H, Zhou Z, **Bai Y**, and Kay LE: Selective characterization of microsecond motions in proteins by NMR relaxation. *J Am Chem Soc*. 131(44): 16257-16265, 2010. (LBMB)

Goldfarb T and **Lichten M**: Frequent and efficient use of the sister chromatid for DNA double-strand break repair during budding yeast meiosis. *PLoS Biol*. 8(10): e1000520, 2010. (LBMB)

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

Majerciak V, Uranishi H, Kruhlak M, Pilkington GR, Massimelli MJ, Bear J, **Pavlakis GN, Felber BK, and Zheng Z-M**: Kaposi sarcoma-associated herpesvirus ORF57 interacts with cellular RNA export cofactors RBM15 and OTT3 promoting viral ORF59 expression. *J Virol*. 85: 1528-1540, 2011. (HAMB)

Basic Research Laboratory

There were no submissions reported this month.

Emeritus Scientists

Saneyoshi H, Deschamps JR, and **Marquez VE**: Synthesis of conformationally locked L-Deoxythreosyl phosphonate nucleosides built on a bicyclo[3.1.0]hexane Template. *J Org Chem*. 75: 7659-7669, 2010. (CBL)