

CCR MANUSCRIPT NOTIFICATION (JULY 2009)

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

Fujita KI and **Srinivasula SM**: Ubiquitination and TNFR1 Signaling. Results Probl Cell Differ. In press. (LICB)

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

There were no submissions reported this month.

CCR Nanobiology Program - Robert Blumenthal, Ph.D.

Pally M, Melnik R, and **Shapiro B**: A mososcopic model for molecular dynamics studies of RNA nanostructures. Proc. 8th Internatl. Conf. Comp. Syst. Bioinformatics. In press. (CCRNP)

Wang PC, **Blumenthal RP**, Zhao Y, Schneider JA, Miller N, Grodzinski P, **Gottesman MM**, Tinkle S, Wang K, Wang C, and Liang X-J: Building scientific progress without borders: Nanobiology and nanomedicine in China and the U.S. Cancer Res. In press. (CCRNP)

Xiao X, Feng Y, Vu BK, Ishima R and **Dimitrov DS**: A large library based on a novel (CH2) scaffold: Identification of HIV-1 inhibitors. Biochem. Biophys. Res. Commun. 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.

Laboratory of Medicinal Chemistry - Victor Marquez, Ph.D.

Oyelaran O, Li Q, Farnsworth D, and **Gildersleeve JC**: Microarrays with varying carbohydrate density reveal distinct subpopulations of serum antibodies. J. Proteome Res. 8: 3529-3538, 2009. (LMC)

Marquez VE, Schroeder GK, Ludek OR, Siddiqui MA, Ezzitouni A, and Wolfenden R: Contrasting behavior of conformationally locked carbocyclic nucleosides of adenosine and cytidine as substrates for deaminases. Nucleosides, Nucleotides and Nucleic Acids. 28: 614-632, 2009. (LMC)

Filippov IV and **Nicklaus MC**: Optical structure recognition software to recover chemical information: OSRA, an open source solution. J Chem Inf Model. 49: 740-743, 2009. (LMC)

Andrake MD, Ramcharan J, Merkel G, Zhao XZ, **Burke Jr TR**, and Skalka AM: Comparison of metal-dependent catalysis by HIV-1 and ASV integrase proteins using a new and rapid, moderate throughput assay for joining activity in solution. *AIDS Research and Therapy*. In press. (LMC)

Yun SM, Moulaei T, Lim D, Bang JK, Park JE, Shenoy SR, Liu F, Kang YH, Liao CZ, Soung NK, Lee S, Yoon DY, Lim Y, Lee DH, Otaka A, **Appella E**, **McMahon JB**, **Nicklaus MC**, **Burke Jr TR**, Yaffe MB, **Wlodawer A**, and Lee KS: Structural and functional analyses of minimal phosphopeptides targeting the polo-box domain of polo-like kinase 1. *Nat. Struct. Mol. Biol.* In press. (LMC)

van Bemmelen DM, Brank AS, Eritja R, **Marquez VE**, and Christman JK: DNA (Cytosine-C5) methyltransferase inhibition by oligodeoxyribonucleotides containing 2-(1H)-pyrimidinone (zebularine aglycon) at the enzymatic target site. *Biochemical Pharmacology*. In press. (LMC)

Saneyoshi H, Mazzini S, Avino A, Portella G, Gonzalez C, Orozco M, **Marquez VE**, and Eritja R: Conformationally rigid nucleoside probes help understand the role of sugar pucker and nucleobase orientation in the thrombin-binding aptamer. *Nucleic Acids Research*. In press. (LMC)

Ludek OR, Schroeder GK, Liao CZ, Russ PL, Wolfenden R, and **Marquez VE**: Synthesis and conformational analysis of locked carbocyclic analogues of 1,3-diazepinone riboside, a high-affinity cytidine deaminase inhibitor. *J Org Chem*. In press. (LMC)

Molecular Targets Laboratory - James McMahon, Ph.D.

There were no submissions reported this month.

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

There were no submissions reported this month.

Radiation Oncology Branch - Kevin Camphausen, M.D.

Xu H, Eck PK, Baidoo KE, **Choyke PL**, and **Brechbiel MW**: Toward preparation of antibody-based imaging probe libraries for dual-modality positron emission tomography and fluorescence imaging. *Bioorg Med Chem*. In press. (ROB)

Molecular Imaging Program - Peter Choyke, M.D.

Turkbey B, Kobayashi H, Ogawa M, Bernardo M, and **Choyke PL**: Imaging of tumor angiogenesis: functional or targeted? *AJR Am J Roentgenol*. 193(2): 304-313, 2009. (MIP)

Choyke PL: Can imaging gene expression in human mesenchymal stem cells be successful in large animals? *Radiology*. 252(1): 1-3, 2009. (MIP)

Longmire M, Kosaka N, Ogawa M, **Choyke PL**, and Kobayashi H: Multicolor in vivo targeted imaging to guide real-time surgery of HER2-positive micrometastases in a two-tumor coincident model of ovarian cancer. *Cancer Sci*. 100(6): 1099-1104, 2009. (MIP)

Ravizzini G, Turkbey B, Kurdziel K, and **Choyke PL:** New horizons in prostate cancer imaging. *Eur J Radiol*. 70(2): 212-226, 2009. (MIP)

Giesel FL, Mehndiratta A, Locklin J, McAuliffe MJ, White S, **Choyke PL**, Knopp MV, Wood BJ, Haberkorn U, and von Tengg-Kobligk H: Image fusion using CT, MRI and PET for treatment planning, navigation and follow up in percutaneous RFA. *Exp Oncol*. 31(2): 106-114, 2009. (MIP)

Gunay-Aygun M, Parisi MA, Doherty D, Tuchman M, Tsilou E, Kleiner DE, Huizing M, Turkbey B, **Choyke PL**, Guay-Woodford L, Heller T, Szymanska K, Johnson CA, Glass I, and Gahl WA: MKS3-Related Ciliopathy with Features of Autosomal Recessive Polycystic Kidney Disease, Nephronophthisis, and Joubert Syndrome. *J Pediatr*. In press. (MIP)

Kosaka N, Ogawa M, Sato N, **Choyke PL**, and Kobayashi H: In Vivo Real-Time, Multicolor, Quantum Dot Lymphatic Imaging. *J Invest Dermatol*. In press. (MIP)

Kosaka N, Ogawa M, **Choyke PL**, Karassina N, Corona C, McDougall M, Lynch DT, Hoyt CC, Levenson RM, Los GV, and Kobayashi H: In Vivo Stable Tumor-Specific Painting in Various Colors Using Dehalogenase-Based Protein-Tag Fluorescent Ligands. *Bioconjug Chem*. In press. (MIP)

Kobayashi H, Ogawa M, Kosaka N, **Choyke PL**, and Urano Y: Multicolor imaging of lymphatic function with two nanomaterials: quantum dot-labeled cancer cells and dendrimer-based optical agents. *Nanomed*. 4(4): 411-419, 2009. (MIP)

Turkbey B, Albert PS, Kurdziel K, and **Choyke PL:** Imaging localized prostate cancer: current approaches and new developments. *AJR Am J Roentgenol*. 192(6): 1471-1480, 2009. (MIP)

Kelloff GJ, **Choyke PL**, and Coffey DS: Prostate Cancer Imaging Working Group. Challenges in clinical prostate cancer: role of imaging. *AJR Am J Roentgenol*. 192(6): 1455-1470, 2009. (MIP)

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

There were no submissions reported this month.

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

There were no submissions reported this month.

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

Platz EA, Till C, Goodman PJ, Parnes HL, **Figg WD**, Albanes D, and Kristal AR: Men with low Serum Cholesterol have a Lower Risk of High-Grade Prostate Cancer in the Prostate Cancer Prevention Trial. *Cancer Epidemiol. Biomarkers Prev.* In press. (MOB)

Azad N, Perray A, Gardner E, Imamura CK, Graves C, Sarosy GA, Minasian L, Kotz H, Raggio M, **Figg WD**, and **Kohn EC**: A Phase I Study of Paclitaxel and Continuous Daily CAI in Patients with Refractory Solid Tumors. *Cancer Bio. Ther.* In press. (MOB)

Laboratory of Metabolism - Frank Gonzalez, Ph.D.

Furusawa T, Ko JH, Birger Y and **Bustin M**: Chromosomal proteins HMGN1 is expressed in the hair follicle and affects the hair growth cycle. *Gene Expression Patterns.* 289-295, 2009. (LM)

Gerlitz G, Hock R, Ueda T, and **Bustin M**: The Dynamics Of HMG Proteins-Chromatin Interactions In Living Cells. *Biochem. and Cell Biol.* 87: 127-137, 2009. (LM)

Shirakawa H, Rochman M, Furusawa T, **Kuehn M**, Horigome S, Haketa K, Sugita Y, Inada T, Komai M and **Bustin M**: The Nucleosomal Binding Protein NSBP1 Is Highly Expressed In The Placenta And Modulates Placental Lactogen Expression. *J. Cellular Biochem.* 106: 651-658, 2009. (LM)

Ueda T, Furusawa T, Kurahashi T, **Tessarollo L** and **Bustin M**: The Nucleosome Binding Protein HMGN3 Modulates The Transcription Profile Of Pancreatic beta-Cells And Affects Insulin Secretion. *MCB.* In press. (LM)

Rochman M, Postnikov Y, Corel S, Winkovitch S, Wu X, Gerlitz G, Grigoriev S and **Bustin M**: The Interaction of NSBP1 With Nucleosomes In Euchromatin Modulates The Fidelity of The Cellular Transcription Profile. *Mol. Cell.* In press. (LM)

Gerlitz G and **Bustin M**: Nucleosome Binding Proteins Potentiate ATM Activation and DNA Damage Response By Modifying Chromatin. *Cell Cycle.* 8: 1, 2009. (LM)

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

Chen KG, Leapman RD, Zhang G, Lai B, Valencia JC, Cardarelli CO, Vieira WD, **Hearing VJ**, and **Gottesman MM**: Influence of Melanosome Dynamics on Melanoma Drug Sensitivity. *J. Natl. Cancer Inst.* In press. (LCB)

Deeken JF, Robey RW, Shukla S, Steadman K, Chakraborty A, Poonkuzhali B, Schuetz EG, Holbeck S, **Ambudkar SV** and **Bates S**: Identification of compounds that correlate with ABCG2 transporter function in the National Cancer Institute anticancer drug screen. *Mol Pharmacol.* In press. (LCB)

Kannan P, John C, Zoghbi SS, Halldin C, **Gottesman MM**, Innis RB, and Hall MD: Imaging the Function of P-Glycoprotein With Radiotracers: Pharmacokinetics and *In Vivo* Applications. *Clin Pharmacol Ther.* 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.

There were no submissions reported this month.

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

Ji J, Yamashita T, Budhu A, Forgues M, Jia HL, Li C, Deng C, Wauthier E, Reid LM, Ye QH, Qin LX, Yang W, Wang HY, Tang ZY, Croce CM and **Wang XW**: Identification of MicroRNA-181 by Genome-Wide Screening as a Critical Player in Epithelial Cell Adhesion Molecule-Positive Hepatic Cancer Stem Cells. *Hepatology.* In press. (LHC)

Wang XW and **Thorgeirsson SS**: Genome-based predictors for HCC outcomes: A matter of tumor and/or stroma. *J Hepatology.* In press. (LHC)

Ji J, Shi J, Budhu A, Yu Z, Forgues M, Roessler S, **Ambs S**, Chen Y, **Meltzer PS**, Croce CM, Qin LX, Man K, Lo CM, Lee J, Ng IOL, Tang ZY, Sun HC, and **Wang XW**: MicroRNA expression, survival, and response to the interferon in men and women with liver cancer. *N Engl J Med.* In press. (LHC)

Mathe EA, Nguyen GH, Bowman ED, Zhao Y, Budhu A, Schetter AJ, Braun R, Reimers M, Kumamoto K, Hughes D, Altorki NK, Casson AG, **Wang XW**, Yanaihara N, Hagiwara N, Dannenberg AJ, Miyashita M, Croce CM, and **Harris CC**: MiRNA expression in squamous cell carcinoma and adenocarcinoma of the esophagus and associations with survival. *Clin Cancer Res.* In press. (LHC)

Ji J and **Wang XW**: New Kids on the block: diagnostic and prognostic microRNAs in hepatocellular carcinoma. *Cancer Biology & Therapy*. 8: 1-8, 2009. (LHC)

Schetter AJ, Nguyen G, Bowman ED, Mathe E, Yeun ST, Hawkes JE, Lueng SY, and **Harris CC**: Association of Inflammation-Related and microRNA Gene Expression with Cancer-Specific Mortality of Colon Adenocarcinoma. *Clinical Cancer Research*. In press. (LHC)

Schetter AJ and **Harris CC**: Plasma microRNAs: A potential biomarker for colorectal cancer? *GUT*. In press. (LHC)

Seike M, Goto A, Okano T, Bowman ED, Schetter AJ, Horikawa I, Mathe E, Jen J, Yang P, Sugimora H, Gemma A, Kduoh S, Croce CM and **Harris CC**: MiR-21 is an EGFR-related anti-apoptotic factor in lung cancer from never-smokers. *Proceedings of the National Academy of Sciences*. 106(29): 12085-12090, 2009. (LHC)

Wang XW and **Thorgeirsson SS**: Transcriptome analysis of liver cancer: Ready for the clinic? *J Hepatology*. 50: 1060-1064, 2009. (LHC)

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

Retroviral Replication Laboratory - Stephen Hughes, Ph.D.

There were no submissions reported this month.

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

Ahlborn G, Nelson G, Gindstaff R, **Waalkes M**, Diwan B, Allen J, Kitchin K, Preston R, Hernandez-Zavala A, Adair B, Thomas D, Delker D: Impact on Life Stage and Duration of exposure on Arsenic-Induced Proliferative Lesions and Neoplasia in C3H mice. *Toxicology*. 262: 106-113, 2009. (LCC)

Pandhare J, Donald SP, Cooper SK and **Phang JM**: Regulation and Function of Proline Oxidase under nutrient stress. *J. Cellular Biochem*. 107: 759-768, 2009. (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.

Linguraru MG, Gautam R, Peterson J, Yao J, **Linehan WM** and Summers RM: Renal tumor quantification and classification in triple-phase contrast-enhanced abdominal CT. Proceedings of the International Symposium on Biomedical Imaging. In press. (UOB)

Sudarshan S, Sourbier C, Kong HS, Block K, Romero VV, Yang Y, Galindo C, Mollapour M, Scroggins B, Goode N, Lee MJ, Gourlay CW, **Trepel J, Linehan WM, and Neckers L**: Fumarate Hydratase Deficiency in Renal Cancer Induces Glycolytic Addiction and HIF-1{Alpha} Stabilization by Glucose-Dependent Generation of Reactive Oxygen Species. Molecular and Cellular Biology. In press. (UOB)

Beroukhir R, Brunet JP, Di NA, Mertz KD, Seeley A, Pires MM, Linhart D, Worrell RA, Moch H, Rubin MA, Sellers WR, Meyerson M, **Linehan WM**, Kaelin Jr WG, and Signoretti S: Patterns of Gene Expression and Copy-Number Alterations in Von-Hippel Lindau Disease-Associated and Sporadic Clear Cell Carcinoma of the Kidney. Cancer Res. 69(1): 4674-4681, 2009. (UOB)

Grubb RL, Deng J, **Pinto PA**, Mohler JL, Chinnaiyan A, Rubin M, **Linehan WM**, Liotta LA, Petricoin EF, and Wulfschlegel JD: Pathway Biomarker Profiling of Localized and Metastatic Human Prostate Cancer Reveal Metastatic and Prognostic Signatures. J Proteome Res. 8(6): 3044-3054, 2009. (UOB)

Linehan WM: Genetic Basis of Bilateral Renal Cancer: Implications for Evaluation and Management. J Clin Oncol. In press. (UOB)

Kowalczyk KJ, Hooper HB, **Linehan WM, Pinto P**, Wood BJ, and Bratslavsky G: Partial Nephrectomy After Previous Radiofrequency Ablation: The NCI Experience. J Urology. In press. (UOB)

Erickson HS, Albert PS, Gillespie JW, Rodriguez-Canales J, **Linehan WM, Pinto PA**, Chuaqui RJ, and **Emmert-Buck MR**: Quantitative RT-PCR Gene Expression Analysis of Laser Microdissected Tissue Samples. Nature Protocols. 5: 1-23, 2009. (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 & Stuart Yuspa, MD

Mishra PJ and **Merlino G**: MicroRNA reexpression as differentiation therapy in cancer. *J. Clin. Invest.* 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.

Allison RD, Katsounas A, Koziol DE, **Kleiner DE**, Alter HJ, Lempicki RA, Wood B, Yang J, Fullmer B, Cortez KJ, Polis MA, and Kottlilil S: Association of interleukin-15-induced peripheral immune activation with hepatic stellate cell activation in persons coinfecting with hepatitis C virus and HIV. *J. Infect. Dis.* 200: 619-623, 2009. (LP)

Alper O, **Stetler-Stevenson WG**, Harris LN, Leitner WW, Ozdemirli M, Hartmann D, **Raffeld M**, Abu-Asab M, Byers S, Zhuang Z, Oldfield EH, Tong Y, Bergmann-Leitner E, Criss WE, Nagasaki K, Mok SC, Cramer DW, Karaveli FS, Goldbach-Mansky R, Leo P, Stromberg K, and Weil RJ: Novel anti-filamin-A antibody detects a secreted variant of filamin-A in plasma from patients with breast carcinoma and high-grade astrocytoma. *Cancer Sci.* In press. (LP)

Brunt EM, **Kleiner DE**, Wilson LA, Unalp A, Behling CE, Lavine JE, and Neuschwander-Tetri BA: NASH Clinical Research Network. Portal chronic inflammation in nonalcoholic fatty liver disease (NAFLD): a histologic marker of advanced NAFLD-clinicopathologic correlations from the nonalcoholic steatohepatitis clinical research network. *Hepatology.* 49: 809-820, 2009. (LP)

Feldstein A, **Kleiner DE**, Kravetz D, and Buck M: Severe hepatocellular injury with apoptosis induced by a hepatitis C polymerase inhibitor. *J. Clin. Gastroenterol.* 43: 374-381, 2009. (LP)

Gunay-Aygun M, Parisi MA, Doherty D, Tuchman M, Tsilou E, **Kleiner DE**, Huizing M, Turkbey B, **Choyke P**, Guay-Woodford L, Heller T, Szymanska K, Johnson CA, Glass I, and Gahl WA: MKS3-related ciliopathy with features of autosomal recessive polycystic kidney disease, nephronophthisis, and Joubert Syndrome. *J. Pediatr.* In press. (LP)

Horvath A, Korde L, Greene MH, Libe R, Osorio P, Faucz FR, Raffin-Sanson ML, Tsang KM, Drori-Herishanu L, Patronas Y, Remmers EF, Nikita ME, Moran J, Greene J, Nesterova M, **Merino MJ**, Bertherat J, and Stratakis CA: Functional phosphodiesterase 11A mutations may modify the risk of familial and bilateral testicular germ cell tumors. *Cancer Res.* 69(13): 5301-5306, 2009. (LP)

Iuliano AD, Feingold E, Wahed AS, **Kleiner DE**, Belle SH, Conjeevaram HS, Zmuda J, Liang TJ, and Yee LJ: Virahep-C study group. Host genetics, steatosis and insulin resistance among African Americans and Caucasian Americans with hepatitis C virus genotype-1 infection. *Intervirology*. 52:49-56, 2009. (LP)

Koh C, Hipp JD, **Kleiner DE**, and Heller T: Acute right upper quadrant pain: A lesson in odds. *Dig. Liver Dis*. In press. (LP)

Macdonald CJ, Cheng RY, **Roberts DD**, **Wink D**, and Yeh GC: Modulation of carcinogen metabolism by nitric oxide-aspirin 2 is associated with suppression of DNA damage and DNA adduct formation. *J. Biol. Chem*. In press. (LP)

Martiniova L, Lai EW, Elkahloun AG, Abu-Asab M, Wickremasinghe A, Solis DC, Perera SM, Huynh TT, Lubensky IA, Tischler AS, Kvetnansky R, Alesci S, **Morris JC** and Pacak K: Characterization of an animal model of aggressive metastatic pheochromocytoma linked to a specific gene signature. *Clin. Exp. Metast.* 26(3): 239-250, 2009. (LP; PI: **Oberholtzer J**)

Maxhimer JB, Shih HB, Isenberg JS, Miller TW, and **Roberts DD**: Thrombospondin-1-CD47 blockade following ischemia reperfusion injury is tissue protective. *Plast. Reconstr. Surg*. In press. (LP)

Mochel F, Yang B, Barritault J, Thompson JN, Engelke UF, McNeill NH, Benko WS, Kaneski CR, Adams DR, **Tsokos M**, Abu-Asab M, Huizing M, Seguin F, Wevers RA, Ding J, Verheijen FW, and Schiffmann R: Free sialic acid storage disease without sialuria. *Ann. Neurol.* 65 (6): 753-757, 2009. (LP)

Osinusi A, **Kleiner DE**, Wood B, Polis M, Masur H, and Kottlil S: Rapid development of advanced liver fibrosis after acquisition of hepatitis C infection during primary HIV infection. *AIDS Patient Care STDS*. 23: 403-406, 2009. (LP)

Palmore TN, Shah NL, Loomba R, Borg BB, Lopatin U, Feld JJ, Khokhar F, Lutchman G, **Kleiner DE**, Young NS, Childs R, Barrett AJ, Liang TJ, Hoofnagle JH, and Heller T: Reactivation of hepatitis B with reappearance of hepatitis B surface antigen after chemotherapy and immune suppression. *Clin. Gastroenterol. Hepatol*. In press. (LP)

Vinh DC, Shea YR, Sogui JA, Parrilla-Castellar ER, Freeman AF, Campbell JW, Pittaluga S, Jones PA, Zelazny A, **Kleiner DE**, Kwon-Chung KH, and Holland SM: Invasive aspergillosis due to *Neosartorya udagawae*. *Clin. Invest. Dis.* 49: 102-111, 2009. (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. & Susan Gottesman, Ph.D.

Kreitman RJ, Stetler-Stevenson M, Margulies I, Noel P, FitzGerald DJ, Wilson WH, and Pastan I: Phase II trial of recombinant immunotoxin RFB4(dsFv)-PE38 (BL22) in patients with hairy cell leukemia. *J. Clin. Oncol.* 27: 2983-2990, 2009. (LMB)

Semsey S, Krishna S, Erdosy J, Horvath P, Orosz L, Sneppen K, and **Adhys S:** Dominant negative autoregulation limits steady-state repression levels in gene networks. *J. Bacteriol.* 191: 4487-4491, 2009. (LMB)

Ho M and Pastan I: Display and selection of scFv antibodies on HEK-293T cells. *Methods Mol. Biol.* 562: 99-113, 2009. (LMB)

Kim C, Tai CH and **Lee B:** Iterative refinement of structure-based sequence alignments by seed extension. *BMC Bioinformatics.* 10: 210, 2009. (LMB)

Guigon CJ and **Cheng SY:** Novel non-genomic signaling of thyroid hormone receptors in thyroid carcinogenesis. *Mol. Cell Endocrinol.* 308: 63-69, 2009. (LMB)

Cancer & Developmental Biology Lab. - Alan Perantoni, Ph.D. (Acting Chief)

There were no submissions reported this month.

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

There were no submissions reported this month.

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.

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.

Yang D, de la Rosa G, Tewary P, and **Oppenheim JJ**: Alarmins link neutrophils and dendritic cells. Trends Immunol. In press. (LMI)

Chen K, Huang J, Liu Y, Gong W, Cui Y, and **Wang JM**: Synergy of TRIF-dependent TLR3 and MyD88-dependent TLR7 in up-regulating expression of mouse FPR2, a promiscuous G-protein-coupled receptor, in microglial cells. J Neuroimmunol. In press. (LMI)

Takahashi M, Galligan C, **Tessarollo L**, and Yoshimura T: Monocyte chemoattractant protein-1 (MCP-1), not MCP-3, is the primary chemokine required for monocyte recruitment in mouse peritonitis induced with thioglycollate or zymosan A. J Immunol. In press. (LMI; PI: **Oppenheim JJ**)

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.

Mammary Biology & Tumorigenesis Lab - Barbara Vonderhaar, 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.

Kwon SY, Hua X, **Wu C** and Badenhorst P: Alternative Splicing of NURF301 Generates Distinct NURF Chromatin Remodeling Complexes with Altered Modified Histone Binding Specificities. PLoS Genetics. 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.

SAIC Frederick

AIDS and Cancer Virus Program - Jeffrey Lifson, M.D.

Keele BF, Li H, Learn GH, Hraber P, Giorgi EE, Grayson T, Sun C, Chen Y, Yeh WW, Letvin NL, Mascola JR, Nabel GJ, Haynes BF, Bhattacharya T, Perelson AS, Korber BT, Hahn BH, and Shaw GM: Low-dose rectal inoculation of rhesus macaques by SIVsmE660 or SIVmac251 recapitulates human mucosal infection by HIV-1. J Exp Med. 206: 1117-1134, 2009. (ACVP; PI: **Lifson JD**)

Okoye A, Park H, Rohankhedkar M, Coyne-Johnson L, Lum R, Walker JM, Planer SL, Legasse AW, Sylwester AW, Piatak Jr M, **Lifson JD**, Sodora DL, Villinger F, Axthelm MK, Schmitz JE, and Picker LJ: Profound CD4⁺/CCR5⁺ T cell expansion is induced by CD8⁺ lymphocyte

depletion but does not account for accelerated SIV pathogenesis. *J Exp Med.* 206: 1575-1588, 2009. (ACVP)

Watts JM, Dang KK, **Gorelick RJ**, Leonard CW, Bess Jr JW, Swanstrom R, Burch CL, and Weeks KM: The structure of an entire HIV-1 RNA genome. *Nature*. In press. (ACVP)

Minang JT, Trivett MT, Coren LV, Barsov EV, Piatak Jr M, **Ott DE**, and **Ohlen C**: Nef-mediated MHC class I down-regulation unmasks clonal differences in virus suppression by SIV-specific CD8⁺ T cells independent of IFN-gamma and CD107a responses. *Virology*. In press. (ACVP)

Kader M, Wang X, Piatak Jr M, **Lifson JD**, Roederer M, Veazey R, and Mattapallil JJ: alpha4(+)beta7(hi)CD4(+) memory T cells harbor most Th-17 cells and are preferentially infected during acute SIV infection. *Mucosal Immunol*. In press. (ACVP)

Meier A, Chang JJ, Chan ES, Pollard RB, Sidhu HK, Kulkarni S, Wen TF, Lindsay RJ, Orellana L, Mildvan D, Bazner S, Streeck H, Alter G, **Lifson JD**, **Carrington M**, Bosch RJ, Robbins GK, and Altfeld M: Sex differences in the Toll-like receptor-mediated response of plasmacytoid dendritic cells to HIV-1. *Nat Med*. In press. (ACVP)