

CCR MANUSCRIPT NOTIFICATION (FEBRUARY 2011)

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

Fujita K, Maeda D, Xiao Q, and **Srinivasula SM**: Nrf2-mediated induction of p62 controls Toll-like receptor-4-driven aggresome-like induced structure formation and autophagic degradation. *Proc. Natl. Acad. Sci. USA.* 108(4): 1427-1432, 2011. (LICB)

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.* 16: 162-173, 2011. (LICB)

Fujita K and **Srinivasula SM**: TLR4-mediated autophagy in macrophages is a p62-dependent type of selective autophagy of aggresome-like induced structures (ALIS). *Autophagy.* In press. (LICB)

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

Brocca-Cofano E, McKinnon K, Demberg T, Venzon D, Hidajat R, Xiao P, Daltabuit-Test M, Patterson LJ, and **Robert-Guroff M**: Vaccine-elicited SIV and HIV envelope-specific IgA and IgG memory B cells in rhesus macaque peripheral blood correlate with functional antibody responses and reduced viremia. *Vaccine.* In press. (VB)

CCR Nanobiology Program - Robert Blumenthal, Ph.D.

Dulcey AE, **Qasba PK**, Lamb J, and Griffiths GL: Improved synthesis of UDP-2-(2-ketopropyl)galactose and a first synthesis of UDP-2-(2-ketopropyl)glucose for the site-specific linking of biomolecules via modified glycan residues using glycosyltransferases. *J.Tetrahedron.* 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.

Wang Y, **Gildersleeve JC**, Basu A, and Zimmt MB: Photo- and bio-physical studies of lectin-conjugated fluorescent nanoparticles: Reduced sensitivity in high density assays. *J Phys Chem. B.* 114: 14487-14494, 2010. (CBL)

Radiation Oncology Branch - Kevin Camphausen, M.D.

Nwe K, Bernardo M, Regino CA, Williams M, and **Brechbiel MW**: Comparison of MRI properties between derivatized DTPA and DOTA gadolinium-dendrimer conjugates. *Bioorg Med Chem.* 18(16): 5925-5931, 2010. (ROB)

Molecular Imaging Program - Peter Choyke, M.D.

Choyke PL: Science to Practice: Angiogenic Marker Expression during Tumor Growth--Can Targeted US Microbubbles Help Monitor Molecular Changes in the Microvasculature? *Radiology.* 258(3): 655-656, 2011. (MIP)

Sato N, Sabzevari H, Fu S, Ju W, Petrus MN, Bamford RN, **Waldmann TA**, and Tagaya Y: Development of an IL-15-autocrine CD8 T-cell leukemia in IL-15 transgenic mice requires the cis-expression of IL-15 α . *Blood.* In press. (MIP; PI: **Choyke PL**)

Kurdziel KA and Kiesewetter DO: PET imaging of multidrug resistance in tumors using 18F-fluoropaclitaxel. *Curr Top Med Chem.* 10(17): 1792-1798, 2010. (MIP; PI: **Choyke PL**)

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

Devkota KP, Ratnayake R, **Colburn NH**, Wilson JA, Henrich CJ, **McMahon JB**, and **Beutler JA**: Inhibitors of the Oncogenic Transcription Factor AP-1 from *Podocarpus latifolius*. *J Nat Prod.* In press. (LCP)

Mathews LA, Cabarcas SM, and **Farrar WL**: DNA repair: the culprit for tumor-initiating cell survival? *Cancer Metastasis Rev.* In press. (LCP)

Tao Y, Xi S, Shan J, Maunakea AK, Che A, Briones V, Lee E, Geiman TM, Huang J, Stephens R, Leighty R, Zhao K, and **Muegge K**: Lsh Modulates Genome-Wide Cytosine Methylation Patterns at Non-Repeat Sequences. *Proc. Natl. Acad. Sci. USA.* In press. (LCP)

Zeng W, Baumann C, Schmidtman A, Honaramooz A, Tang L, Bondareva A, Dores C, Fan T, Xi S, Geiman T, Rathi R, De Rooij D, De la Fuente R, **Muegge K**, and Dobrisnki I: Lymphoid-Specific Helicase (HELLS) IS Essential for Meiotic Progression in Mouse Spermatocytes. *Biology Reprod.* 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.

Mailankody S, Mena E, Yuan CM, Balakumaran A, **Kuehl WM**, and **Landgren O**: Molecular and biologic markers of progression in monoclonal gammopathy of undetermined significance to multiple myeloma. *Leuk Lymphoma.* 51(12): 2159-2170. 2010. (MOB)

Stein WD, **Gulley JL**, **Schlom J**, Madan RA, **Dahut W**, **Figg WD**, Ning YM, Arlen PM, Price D, **Bates SE**, and **Fojo T**: Tumor Regression and Growth Rates Determined in Five Intramural NCI Prostate Cancer Trials: The Growth Rate Constant as an Indicator of Therapeutic Efficacy. *Clin Cancer Res.* 17(4): 907-917, 2011. (MOB)

Sissung TM, Gardner ER, Piekarz RL, Howden R, Chen X, Woo S, Franke R, Clark JA, Miller-Degraff L, Steinberg SM, Venzon D, Liewehr D, 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.* 17(4): 937-946, 2011. (MOB)

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.* 17(3): 569-580, 2011. (MOB)

Tanno T, Rabel A, Alleyne M, Lee YT, **Dahut WL**, **Gulley JL**, and Miller JL: Hepcidin, anaemia, and prostate cancer. *BJU Int.* 107(4): 678-679, 2011. (MOB)

Gao R, Reece K, Sissung T, Reed E, Price DK, and **Figg WD**: The ERCC1 N118N polymorphism does not change cellular ERCC1 protein expression or platinum sensitivity. *Mutat Res.* In press. (MOB)

Sharifi N, Qi J, Bane S, Sharma S, Li R, Robey R, **Figg WD**, **Farrar WL**, and Kingston DG: Survivin is not induced by novel taxanes. *Mol Pharm.* 8(1): 315, 2011. (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.* 96(2): E368-E372, 2011. (MOB)

Rajan A and **Giaccone G**: Chemotherapy for thymic tumors: induction, consolidation, palliation. *Thorac Surg Clin.* 21(1): 107-114, 2011. (MOB)

Goldin LR, **Landgren O**, Kristinsson SY, Björkholm M, and Paltiel O: Infection in infancy and subsequent risk of developing lymphoma in children and young adults. *Blood.* 117(5): 1670-1672, 2011. (MOB)

Koshiol J, Lam TK, Gridley G, Check D, Brown LM, and **Landgren O**: Racial Differences in Chronic Immune Stimulatory Conditions and Risk of Non-Hodgkin's Lymphoma in Veterans From the United States. *J Clin Oncol.* 29(4): 378-385, 2011. (MOB)

Landgren O, Polliack A, and Tadmor T: Associations between multiple myeloma and other malignancies. *Leuk Lymphoma.* 52(2): 161-162, 2011. (MOB)

Wells Jr SA, Gosnell JE, Gagel RF, Moley J, Pfister D, Sosa JA, Skinner M, Krebs A, Vasselli J, and Schlumberger M: Vandetanib for the treatment of patients with locally advanced or metastatic hereditary medullary thyroid cancer. *J Clin Oncol.* 28(5): 767-772, 2010. (MOB; PI: **Giaccone G**)

Laboratory of Metabolism - Frank Gonzalez, Ph.D.

Oh K-S, **Bustin M**, Mazur SJ, **Appella E**, and **Kraemer KH**: UV-induced histone H2AX phosphorylation and DNA damage related proteins accumulate and persist in nucleotide excision repair-deficient XP-B cells. *DNA Repair.* 10: 5-15, 2011. (LM)

Gerlitz G and **Bustin M**: The Role of Chromatin Structure in Cell Migration. *Trends in Cell Biol.* 21: 6-11, 2011. (LM)

Rochman M, Taher L, Kurahashi T, Cherukuri S, Uversky V, Landsman D, Ovcharenko I and **Bustin M**: Effects of HMGN Variants on the Cellular Transcription Profile. *Nucleic Acid Res.* In press. (LM)

Cuddapah S, Schones DE, Cui K, Roh T-Y, Barsk A, Wei G, Rochman M, **Bustin M** and Zhao K: Genomic Profiling of HMGN1 Reveals an Association with Chromatin at Regulatory Regions. *Mol. Cell. Biol.* 31: 700-709, 2011. (LM)

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

Macadangdang B, Zhang N, Lund PE, Marple AH, Okabe M, **Gottesman MM**, Appella DH, and Kimchi-Sarfaty C: Inhibition of Multidrug Resistance by SV40 Pseudovirion Delivery of an Antigenic Peptide Nucleic Acid (PNA) in Cultured Cells. PLoS ONE. In press. (LCB)

Kawaguchi M and **Hearing VJ**: The role of ADAMs family proteases in skin disease. Enzyme Res. 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.

Qiu Y, Stavreva DA, Luo Y, Indrawan A, Chang M, and **Hager GL**: Dynamic interaction of HDAC1 with a glucocorticoid receptor regulated gene is modulated by the activity state of the promoter. J. Biol. Chem. In press. (LRBGE)

Mueller F, Karpova TS, Mazza D and **McNally JG**: Monitoring dynamic binding of chromatin proteins in vivo by fluorescence recovery after photobleaching (FRAP). In: Chromatin Remodeling: Methods and Protocols (Morse R, ed.). In press. (LRBGE)

Mazza D, Stasevich TJ, Karpova TS and **McNally JG**: Monitoring dynamic binding of chromatin proteins in vivo by fluorescence correlation spectroscopy (FCS) and temporal image correlation spectroscopy (TICS). In: Chromatin Remodeling: Methods and Protocols (Morse R, ed.). In press. (LRBGE)

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

Saito M, Schetter AJ, Mollerup S, Kohno T, Skaug V, Bowman ED, Mathe E, Takenoshita S, Yokota J, Haugen A, and **Harris CC**: The association of microRNA expression with prognosis and progression in early stage, non small lung adenocarcinoma: a retrospective analysis of three cohorts. Clinical Cancer Res. In press. (LHC)

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

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

Maldarelli F: Targeting viral reservoirs: Ability of antiretroviral therapy to stop viral replication. Curr. Opin. HIV AIDS. 6: 49-56, 2011. (HVIB)

Retroviral Replication Laboratory - Stephen Hughes, Ph.D.

Balasubramaniam M and **Freed EO**: New insights into HIV assembly and trafficking. *Physiology*. 26: 236-251, 2011. (RRL)

Chaipan C, Dilley KA, Paprotka T, Delviks-Frankenberry KA, Venkatachari NJ, **Hu W-S**, and **Pathak VK**: Severe restriction of Xenotropic murine leukemia virus replication and spread in cultured human peripheral blood mononuclear cells. *J. Virol.* 85: 4888-4897, 2011. (RRL)

Checkley MA, Luttge BG, and **Freed EO**: HIV-1 envelope glycoprotein biosynthesis, trafficking, and incorporation. *J. Mol. Biol.* In press. (RRL)

Datta SAK, Temeselew LG, Crist RM, Soheilian F, Kamata A, Mirro J, Harvin D, Nagashima K, Cachau RE, and **Rein A**: On the role of the SP1 in HIV-1 particle assembly: A molecular switch. *J. Virol.* 85: 4111-4121, 2011. (RRL)

Kim S-E, Liu F, Im J, Stephen AG, Waheed AA, **Freed EO**, Fisher RJ, Hurley JH, and **Burke TR**: Identification of new binding interactions with the tumor susceptibility gene 101 (Tsg101) protein using modified HIV-1 Gag-p6-derived peptide ligands. *ACS Chem. Lett.* 2: 337-341, 2011. (RRL)

Shuh M, Morse B, Heidecker G and Derse D: Association of Src-related kinase lyn with the IL-2 receptor and its role in maintaining constitutive phosphorylation of JAK/STAT in HTLV-1 transformed T-cells. *J. Virol.* 85: 4623-4627, 2011. (RRL; PI: **Hughes SH**)

Vu BC, Boyer PL, Siddiqui MA, **Marquez VE**, and **Hughes SH**: 4'-methyl-2'-deoxyadenosine and 4'-ethyl-2'-deoxyadenosine inhibit HIV-1 replication. *Antimicrob. Agents Chemother.* 55: 2379-2389, 2011. (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

There were no submissions reported this month.

Radiation Biology Branch - James Mitchell, Ph.D.

Davis RM, Matsumoto S, Bernardo M, Sowers A, Matsumoto K, **Krishna MC**, and **Mitchell JB**: Magnetic resonance imaging of organic contrast agents in mice: capturing the whole-body redox landscape. *Free Radic Biol Med.* 50(3): 459-468, 2011. (MIP)

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.

Amri H, Abu-Asab M, Jonas WB, and Ives J: Laboratory research and biomarkers. Lewith GT, Jonas WB, Walach H (Eds). In: *Clinical Research in Complementary Therapies*, 2nd Ed., pp. 69-94, 2010. Principles, Problems and Solutions. Elsevier Ltd, Publ. (LP; PI: **Oberholtzer JC**)

Dojcinov SD, Venkataraman G, **Pittaluga S**, Wlodarska I, Schrager JA, **Raffeld M**, Hills RK, and **Jaffe ES**: Age related EBV associated lymphoproliferative disorder – a spectrum of reactive lymphoid hyperplasia and lymphoma: The Western experience. *Blood*. In press. (LP)

Liu J, Chung H-J, Vogt M, Jin Y, Malide D, He L, Dundr M, and **Levens D**: JTV1 co-activates FBP to induce USP29 transcription and stabilize p53 in response to oxidative stress. *EMBO J*. In press. (LP)

Nelson JE, Wilson L, Brunt EM, Yeh MM, **Kleiner DE**, Unalp-Arida A, and Kowdley KV: Nonalcoholic steatohepatitis clinical research network. *Hepatology*. 53(2): 448-457, 2011. (LP)

Roberts DD and Lau LF: Matricellular proteins. Mecham RP (Ed). In: *Biology of Extracellular Matrix: An overview*. Springer, Berlin/Heidelberg. In press. (LP)

Roberts DD, Soto-Pantoja DR, and Isenberg JS: CD47. In: Encyclopedia of Signaling Molecules. Springer. In press. (LP)

Song JY, Eberle FC, Xi L, **Raffeld M**, Rahma O, **Wilson WH**, Dunleavy K, Pittaluga S, and **Jaffe ES**: Coexisting and clonally identical classical Hodgkin lymphoma and nodular lymphocyte predominant Hodgkin lymphoma. Am. J. Surg. Pathol. In press. (LP)

Weisenburger DD, Savage KJ, Harris NL, Gascoyne RD, **Jaffe ES**, Maclennan KA, Rudiger T, Pileri S, Nakamura S, Nathwani B, Campo E, Berger F, Coiffier B, Kim WS, Holte H, Federico M, Au WY, Tobinai K, Armitage JO, and Vose JM: Peripheral T-cell lymphoma, not otherwise specified: a report of 340 cases from the International Peripheral T-cell Lymphoma Project. Blood. 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.

There were no submissions reported this month.

Cancer & Developmental Biology Lab. - Alan Perantoni, Ph.D.

Lewandoski M and **Mackem S**: Developmental biology: Extending the limb and body with vectors and scalars. Curr. Biol. 21: R34-R36, 2011. (CDBL)

Tanigawa S, Wang H, Yang Y, Sharma N, Tarasova N, Ajima R, **Yamaguchi TP**, Rodriguez LG and **Perantoni AO**: Wnt4 induces nephronic tubules in metanephric mesenchyme by a non-canonical mechanism. Dev. Biol. In press. (CDBL)

Sugiyama N, Tsukiyama T, **Yamaguchi TP**, and Yokoyama T: Cell proliferation and random oriented cell division in *inv* kidneys. Kidney Intl. In press. (CDBL)

Harai T, Chagin A, **Mackem S** and Kronenberg HM: PTH/PTHrP receptor signaling is required for maintenance of the growth plate in postnatal life. Proc. Natl. Acad. Sci. 108: 191-196, 2011. (CDBL)

Gildea DE, Luetkemeier ES, Bao X, Loftus SL, **Mackem S**, Yang Y, Pavan WJ, and Biesecker LG: The pleiotropic mouse phenotype extra-toes spotting is caused by translation initiation factor Eif3c mutations and is associated with disrupted Sonic Hedgehog signaling. The FASEB Journal. In press. (CDBL)

Zhang Z, O'Rourke JR, McManus MT, **Lewandoski M**, Harfe BD and Sun X: The microRNA-processing enzyme dicer is dispensable for somite segmentation but essential for limb bud positioning. *Dev. Biol.* In press. (CDBL)

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

Zeeberg BR, Liu H, Kahn AB, Ehler M, Rajapakse VN, Bonner RF, Brown JD, Brooks BP, **Larionov VL**, Reinhold W, Weinstein JN, and **Pommier Y**: RedundancyMiner: de-replication of redundant GO categories in microarray and proteomics analysis. *BMC Bioinformatics.* 12: 52, 2011. (LMP)

Redon CE, Nakamura AJ, Martin OA, Parekh PR, Weyemi US, and **Bonner WM**: Recent developments in the use of gamma-H2AX as a quantitative DNA double-strand break biomarker. *Aging.* In press. (LMP)

Bronze-da-Rocha E, Tseng CM, Shimura T, and **Aladjem MI**: Interactions of MCP1 with components of the replication machinery in mammalian cells. *Intl. J. Biol. Sci.* In press. (LMP)

Valenzuela MS, Chen Y, Davis S, Yang F, Walke RL, Bilke S, Lueders J, Martin M, **Aladjem MI**, Massion PP, and **Meltzer PS**: Preferential localization of human origins of DNA replication at the 5'-ends of expressed genes and at evolutionarily conserved DNA sequences. *PLoS One.* In press. (LMP)

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

Pigati L, Yaddanapudi SC, Iyengar R, Kim DJ, Hearn SA, **Danforth D**, Hastings ML, and Duelli DM: Selective release of microRNA species from normal and malignant mammary epithelial cells. *PLoS One.* 5(10): e13515, 2010. (SB)

Hanada K, Wang QJ, Inozume T, and **Yang JC**: Molecular identification of an MHC-independent ligand recognized by a human alpha/beta T-cell receptor. *Blood.* In press. (SB)

Wang QJ, Hanada K, Feldman SA, Zhao Y, Inozume T, and **Yang JC**: Development of a genetically-modified novel T-cell receptor for adoptive cell transfer against renal cell carcinoma. *J. Immunol. Method.* In press. (SB)

Mammary Biology & Tumorigenesis Lab – David Salomon, Ph.D. (Acting Lab Chief)

Bargo S, Raafat A, McCurdy D, Amirjazil I, Shu Y, Traicoff J, Plant J, **Vonderhaar BK**, and **Callahan R**: Transforming acidic coiled-coil protein-3 (Tacc3) acts as a negative regulator of Notch signaling through binding to CDC10 /Ankyrin repeats. *BBRC*. 400: 606-612, 2010. (MBTL)

Raafat A, Goldhar AS, Klauzinska M, Xu K, Amirjazil I, Lashin K, **Salomon D**, **Vonderhaar BK**, Egan S and **Callahan R**: Quantitative analysis of Notch receptors, ligands and target genes RNA expression in the mouse mammary gland during development. *J. Cell. Phys.* In press. (MBTL)

Sun Y, Klauzinska M, Lake R, Lee JM, Raafat A, Santopietro S, **Salomon D**, **Callahan R**, and Artavanis-Tsakonas S: Trp53 dependent regulation of Notch4 signaling through Mdm2. *J. Cell. Sci.* 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.

Palena C and **Schlom J**: Target: Brachyury, a master driver of epithelial-to-mesenchymal transition (EMT). In: *Encyclopedia of Cancer Therapeutic Targets* (John L. Marshall, Ed.), Springer. 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.

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.

Chan T, Back TC, Subleski J, Weiss JM, Ortaldo JR, and **Wiltrout RH**: Systemic IL-12 administration modulates dendritic cells to overcome immunosuppression inherent in the liver microenvironment. PLoS One. In press. (LEI)

Dahirel V, Shekhar K, Pereyra F, Miura T, Artyomov N, Talsania S, Allen TM, Altfeld M, **Carrington M**, Irvine DJ, Walker BD, and Chakraborty AK: Coordinate linkage of HIV evolution reveals regions of immunologic vulnerability. Proc. Natl. Acad. Sci. USA. 108: 11530-11535, 2011. (LEI)

Leger A, Guiner CL, Nickerson ML, Im KM, Ferry N, Moullier P, Snyder RO, and Penaud-Budloo M: Adeno-Associated Viral Vector DNA is insensitive to de novo CpG Methylation in primate liver and skeletal muscle. J Virol. In press. (LEI; PI: **Dean M**)

McKay GJ, Patterson CC, Chakravarthy U, Dasari S, Klaver CC, Vingerling JR, Ho L, De Jong PTDV, Hingorani AD, Sofat R, Cipriani V, Seland JH, Rahu M, Soubrane G, Tomazzoli L, Topouzis F, Vioque J, Fletcher AE, **Dean M**, Sawitzke J, Seddon JM, Peter I, Weber AR, Moore AT, Fritsche LG, Weber BH, Keilhauer CN, Yates JR, Lotery AJ, Ennis S, Klein ML, Francis PJ, Stambolian D, Orlin A, Gorin MB, Weeks DE, Kuo C, Swaroop A, Othman M, Kanda A, Chen W, Abecasis GR, Wright AF, Hayward C, Baird PN, Guymer RH, Attia J, Thakkinstian A, and Silvestri G: Association of *APOE* with age-related macular degeneration - a pooled analyses of 15 studies. Hum Mol Genet. In press. (LEI)

Julg B, Moodley ES, Qi Y, Ramduth D, Reddy S, Mncube Z, Gao X, Goulder, PJ, Detels R, Ndung'u T, Walker BD, and **Carrington M**: Possession of HLA class II DRB1*1303 associates with reduced viral loads in chronic HIV-1 Clade C and B infection. J Infect Dis. 203: 803-809, 2011. (LEI)

Kim AY, Kuntzen T, Timm J, Nolan BE, Baca MA, Reyor LL, Berical AC, Feller AJ, Johnson KL, Zur Wiesch JS, Robbins GK, Chung RT, Walker BD, **Carrington M**, Allen TM, and Lauer GM: Spontaneous control of HCV is associated with expression of HLA-B*57 and preservation of targeted epitopes. Gastroenterology. 140: 686-696, 2011. (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.

Ju W, Zhang M, Jiang JK, Thomas CJ, Oh U, Bryant BR, Chen J, Sato N, Tagaya Y, Morris JC, Janik JE, Jacobson S, and **Waldmann TA**: CP-690,550, a therapeutic agent, inhibits cytokine-mediated Jak3 activation and proliferation of T cells from patients with ATL and HAM/TSP. *Blood*. 117(6): 1938-1946, 2011. (MB)

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.

Kadoya K, Baek JH, Sarker A, and **Chattoraj DK**: Participation of a Chromosome Segregation Protein ParA1 of *Vibrio cholerae* in Chromosome Replication. *J. Bacteriol.* In press. (LBMB)

Venkova-Canova T and **Chattoraj DK**: Transition from a plasmid to a chromosomal mode of replication entails additional regulators. *Proc. Natl. Acad. Sci. USA.* In press. (LBMB)

Kutty G, Achaz G, **Maldarelli F**, Varma A, Shroff R, Becker S, Fantoni G, and Kovacs JA: Characterization of the Meiosis-Specific Recombinase Dmc1 of *Pneumocystis*. *JID*. 202: 1920-1929, 2010. (LBMB; PI: **Lichten M**)

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

There were no submissions reported this month.

Basic Research Laboratory

Cheryl Winkler

Winkler CA, Nelson GW, and Smith MW: Admixture mapping comes of age. *Annu Rev Genomics Hum Genet.* 11: 65-89, 2010. (BRL)

Freedman BI, Kopp JB, Langefeld CD, Genovese G, Friedman DJ, Nelson GW, **Winkler CA**, Bowden DW, and Pollak MR: The apolipoprotein L1 (APOL1) gene and nondiabetic nephropathy in African Americans. *J Am Soc Nephrol.* 21(9): 1422-1426, 2010. (BRL)

Genovese G, Friedman DJ, Ross MD, Lecordier L, Uzureau P, Freedman BI, Bowden DW, Langefeld CD, Oleksyk TK, Uscinski Knob AL, Bernhardt AJ, Hicks PJ, Nelson GW, Vanhollebeke B, **Winkler CA**, Kopp JB, Pays E, and Pollak MR: Association of trypanolytic ApoL1 variants with kidney disease in African Americans. *Science*. 329(5993): 841-845, 2010. (BRL)

Oleksyk TK, Nelson GW, An P, Kopp JB, and **Winkler CA**: Worldwide distribution of the MYH9 kidney disease susceptibility alleles and haplotypes: evidence of historical selection in Africa. *PLoS One*. 5(7): e11474, 2010. (BRL)

Kopp JB, **Winkler CA**, and Nelson GW: MYH9 genetic variants associated with glomerular disease: what is the role for genetic testing? *Semin Nephrol*. 30(4): 409-417, 2010. (BRL)

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Emeritus Scientists

Barbara Vonderhaar

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