

## CCR MANUSCRIPT NOTIFICATION (DECEMBER 2010)

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

Fujita K, Maeda D, Xiao Q, and **Srinivasula SM**: Nrf2-mediated induction of p62 controls TLR4-driven ALIS formation and autophagic degradation. Proc. Natl. Acad. Sci. USA. In press. (LICB)

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

George J, Brocca Cofano E, Lybarger E, Louder M, Lafont BA, Mascola JR, **Robert-Guroff M**, and Mattapallil JJ: Early short-term anti-retroviral therapy is associated with a reduced prevalence of CD8+FoxP3+ T cells in SIV infected controller rhesus macaques. AIDS Res. Hum. Retroviruses. In press. (VB)

Patterson LJ, Daltabuit-Test M, Xiao P, Zhao J, Hu W, Wille-Reece U, Brocca-Cofano E, Kalyanaraman VS, Kalisz I, Whitney S, Lee EM, Pal R, Montefiori DC, Dandekar S, Seder R, Roederer M, Wiseman RW, Hirsch V, and **Robert-Guroff M**: Rapid SIV Env-specific mucosal and serum antibody induction augments cellular immunity in protecting immunized, elite-controller macaques against high dose heterologous SIV challenge. Virology. In press. (VB)

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

Kasprzak W, Bindewald E, Kim TJ, Jaeger L, and **Shapiro BA**: Use of RNA structure flexibility data in nanostructure modeling. Methods. 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.**

Im YJ, Kuo L, Ren X, Burgos PV, Zhao XZ, Liu F, **Burke Jr TR**, Bonifacino JS, **Freed EO**, and Hurley JH: Crystallographic and functional analysis of the ESCRT-1/HIV-1 gag PTAP interaction. *Structure*. 18: 1536-1547, 2010. (CBL)

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

There were no submissions reported this month.

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

McCann TE, Kosaka N, Turkbey B, Mitsunaga M, **Choyke PL**, and Kobayashi H: Molecular imaging of tumor invasion and metastases: the role of MRI. *NMR Biomed*. In press. (MIP)

Bouchelouche K, Tagawa ST, Goldsmith SJ, Turkbey B, **Capala J**, and **Choyke PL**: PET/CT Imaging and Radioimmunotherapy of Prostate Cancer. *Semin Nucl Med*. 41(1): 29-44, 2011. (MIP)

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

Bobbe G, Murphy G, Albert PS, Sansbury LB, Young MR, Lanza E, Schatzkin A, **Colburn NH**, and Cross AJ: Do interleukin polymorphisms play a role in the prevention of colorectal adenoma recurrence by dietary flavonols? *Eur J Cancer Prev*. 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.**

Dunleavy K, Piekarz RL, Zain J, Janik JE, **Wilson WH**, O'Connor OA, and **Bates SE**: New strategies in peripheral T-cell lymphoma: understanding tumor biology and developing novel therapies. *Clin Cancer Res*. 16(23): 5608-5617, 2010. (MOB)

**Bates SE**: Striving to improve outcomes in oncology: unmet expectations in a complex disease. *Clin Cancer Res*. 16(24): 5950, 2010. (MOB)

Figg WD and **Figg WD**: Cabazitaxel: Filling one of the gaps in the treatment of prostate cancer. *Cancer Bio. Ther.* 10(12): 5-6, 2010. (MOB)

Kelly RJ, Draper D, Robey R, Piekarz R, **Figg WD**, Chen X, Chen C, Gardner ER, Balis F, Venkatesan AM, **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)

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

Stein W, **Gulley JL**, **Schlom J**, Madan RA, **Dahut W**, **Figg WD**, Ning YM, Arlen PM, Price DK, **Bates SE**, and **Fojo T**: Tumor regression and growth rates Determined in Five Interarm NCI Prostate Cancer Trials: The growth Rate Constant as an Indicator of Therapeutic Efficacy. *Clin. Cancer Res.* In press. (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.* 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.* 7(6): 2216-2223, 2010. (MOB)

Troutman SM, Price DK, and **Figg WD**: Prostate cancer genomic signature offers prognostic value. *Cancer Biol Ther.* 10(11): 2-3, 2010. (MOB)

Price DK, Chau CH, Till C, Goodman PJ, Baum CE, Ockers SB, English BC, Minasian L, Parnes HL, Hsing AW, Reichardt JK, Hoque A, Tangen CM, Kristal AR, Thompson IM, and **Figg WD**: Androgen receptor CAG repeat length and association with prostate cancer risk: results from the prostate cancer prevention trial. *J Urol.* 184(6): 2297-2302, 2010. (MOB)

Wang Y, **Trepel JB**, **Neckers LM**, and **Giaccone G**: STA-9090, a small-molecule Hsp90 inhibitor for the potential treatment of cancer. *Curr Opin Investig Drugs.* 11(12): 1466-1476, 2010. (MOB)

Burbelo PD, Browne SK, Sampaio EP, **Giaccone G**, Zaman R, Kristosturyan E, Rajan A, Ding L, Ching KH, Berman A, Oliveira JB, Hsu AP, Klimavicz CM, Iadarola MJ, and Holland SM: Anti-cytokine autoantibodies are associated with opportunistic infection in patients with thymic neoplasia. *Blood.* 116(23): 4848-4858, 2010. (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*. In press. (MOB)

**Landgren O**, Pfeiffer RM, Kristinsson SY, and Björkholm M: Survival Patterns in Patients With Hodgkin's Lymphoma With a Pre-Existing Hospital Discharge Diagnosis of Autoimmune Disease. *J Clin Oncol*. 28(34): 5081-5087, 2010. (MOB)

**Landgren O** and Waxman AJ: Multiple myeloma precursor disease. *JAMA*. 304(21): 2397-2404, 2010. (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  $\beta$  Cells Controls Insulin Secretion by Multiple Mechanisms. *Cell Metab*. 12(6): 619-632, 2010. (MOB)

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

Lau SM, Lin S, Stokes R, Cheng K, Baldock P, Enriquez R, McLean M, Cheung NW, Sainsbury A, **Gonzalez FJ**, Herzog H, and Gunton JE: Synergistic effects of genetic beta cell dysfunction and maternal glucose intolerance on offspring metabolic phenotype in mice. *Diabetologia*. In press. (LM)

Zhu B, Bai R, Kennett MJ, Kang BH, **Gonzalez FJ**, and Peters JM: Enhanced chemoprevention of chemically-induced skin tumorigenesis by ligand activation of peroxisome proliferator-activated receptor- $\beta/\delta$  (PPAR $\beta/\delta$ ) and inhibition of cyclooxygenase 2 (COX2). *Mol. Cancer Ther*. In press. (LM)

Liu A, Yang J, Huang X, Xiong J, **Gonzalez FJ**, and Dai R: Biphasic regulation of intracellular calcium by gemfibrozil contributes to inhibiting L6 myoblast differentiation: Implications for clinical myotoxicity. *Chem. Res. Toxicol*. In press. (LM)

Matsubara T, Tanaka N, Patterson AD, Cho J, Krausz KW, and **Gonzalez FJ**: Lithocholic acid disrupts phospholipid and sphingolipid homeostasis leading to cholestasis. *Hepatology*. In press. (LM)

Johnson CH, Patterson AD, Krausz KW, Lanz C, Kang DW, Luecke H, **Gonzalez FJ**, and Idle JR: Radiation Metabolomics. 4. UPLC-ESI-QTOFMS-based metabolomics for urinary biomarker discovery in gamma-irradiated rats. *Radiation Res*. In press. (LM)

Cheng J, Ma X, and **Gonzalez FJ**: Pregnane X receptor and CYP3A4 humanized mouse models and their applications. *Brit. J. Pharmacol*. In press. (LM)

Gerlitz G and **Bustin M**: Efficient Cell Migration Requires Global Chromatin Condensation. J. Cell Sci. 123: 2207-2217, 2010. (LM)

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. In press. (LM)

Gerlitz G and **Bustin M**: The Role of Chromatin Structure in Cell Migration. Trends in Cell Biol. 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. In press. (LM)

Franco AT, Malaguarnera R, Refetoff S, Liao X-H, Lundsmith E, **Kimura S**, Pritchard C, Marais R, Davies T, Weinstein LS, Chen M, Rosen N, Ghossein R, Knauf JA, and Fagin JA: Thyrotrophin receptor signaling-dependence of Braf-induced thyroid tumor initiation in mice. Proc. Natl. Acad. Sci. USA. In press. (LM)

Kido T, Tomita T, Okamoto M, Cai Y, Matsumoto Y, **Vinson C**, Maru Y, and **Kimura S**: FOXA1 plays a role in regulating Secretoglobin 1a1 expression in the absence of CAATT/Enhancer Binding Protein activities in lung *in vivo*. Am. J. Physiol. Lung Cell. Mol. Physiol. In press. (LM)

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

Butan C, Hartnell LM, Fenton AK, Bliss D, Sockett RE, **Subramaniam S** and Milne JLS: Spiral architecture of the nucleoid in *Bdellovibrio bacteriovorus*. J. Bact. In press. (LCB)

Cui F, Sirotnin MV, and **Zhurkin VB**: Impact of Alu repeats on the evolution of human p53 binding sites. Biol Direct. In press. (LCB)

Fenton A, Butan C, **Subramaniam S** and Sockett RE: A Coiled-Coiled-Repeat-Protein 'CCRP' in *Bdellovibrio bacteriovorus* prevents cellular indentation but is not essential for vibroid cell morphology. FEMS Microbiology Letters. 313: 89-95, 2010. (LCB)

Kannan P, Brimacombe KR, Kreisl WC, Liow J-S, Zoghbi SS, Telu S, Zhang Y, Pike VW, Halldin C, **Gottesman MM**, Innis RB, and Hall MD: Lysosomal trapping of a radiolabeled substrate and an inhibitor of P-glycoprotein: mechanism for PET signal amplification. Proc Nat Acad Sci, USA. In press. (LCB)

Kondo T and **Hearing VJ**: Update on the regulation of melanocyte function and skin pigmentation. Expert Rev Dermatol. In press. (LCB)

Li M, Khursigara CM, **Subramaniam S** and Hazelbauer G: Chemotaxis Kinase CheA is activated by three neighboring chemoreceptor dimers as effectively as by receptor clusters. *Mol. Microbiol.* In press. (LCB)

White TA, Bartesaghi A, Borgnia MJ, Meyerson JR, de la Cruz MJV, Bess JW, Nandwani R, Hoxie JA, Lifson JD, Milne JLS and **Subramaniam S**: Molecular architectures of trimeric SIV and HIV-1 envelope glycoproteins on intact viruses: Strain-dependent variation in quaternary structure. *PLoS Path.* 6, e1001249, 2010. (LCB)

Yun S and **Guy HR**: Stability tests on proteins of known and misfolded structures with discrete and all atom molecular dynamics simulations. *J Mol Graph Model.* 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.**

Biddie SC: Chromatin architecture and the regulation of nuclear receptor inducible transcription. *J Neuroendocrinol.* 23: 94-106, 2011. (LRBGE; PI: **Hager GL**)

### **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.**

Cortez KJ and **Maldarelli F**: Clinical management of HIV drug resistance. *Viruses.* In press. (HVIB)

Kearney M, Spindler J, Shao W, **Maldarelli F**, Palmer S, Hu SL, Lifson JD, **KewalRamani VN**, Mellors JW, Coffin JM, and Ambrose Z: Genetic diversity of simian immunodeficiency virus encoding HIV-1 reverse transcriptase (RT-SHIVmne) persists in macaques despite antiretroviral therapy. *J. Virol.* 85: 1067-1076, 2011. (HVIB)

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*. *J. Infect. Dis.* 202: 1920-1929, 2010. (HVIB)

Ganesan A, Crum-Cianflone N, Higgins J, Qin J, Rehm C, Metcalf J, Brandt C, Vita J, Decker CF, Sklar P, Bavaro M, Tasker S, Follman D, and **Maldarelli F**: High dose atorvastatin decreases cellular markers of immune activation without affecting HIV-1-RNA levels: Results of a double-blind randomized placebo controlled clinical trial. *J. Infect. Dis.* 203: 756-764, 2011. (HVIB)

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

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

Datta SAK, Heinrich F, Raghunandan S, Krueger S, Curtis JE, **Rein A**, and Nanda A: HIV-1 Gag extension: Conformational changes require simultaneous interaction with membrane and nucleic acid. *J. Mol. Biol.* 406: 205-214, 2011. (RRL)

**Freed EO** and Simon A: Review of EMBO World Lecture Course: "Virus-host: Partners in pathogenesis." *Future Virol.* In press. (RRL)

Jones CP, Datta SAK, **Rein A**, Rouzina I, and Musier-Forsyth K: Matrix domain modulates HIV-1 Gag's nucleic acid chaperone activity via inositol phosphate binding. *J. Virol.* 85: 1594-1603, 2011. (RRL)

Keller PW, Adamson CS, Heymann JB, **Freed EO**, and Steven AC: The HIV-1 maturation inhibitor bevirimat stabilizes the immature Gag lattice. *J. Virol.* 85: 1420-1428, 2011. (RRL)

Lee EG, Roy J, Jackson D, Clark P, Boyer PL, **Hughes SH**, and Linial M: Foamy retroviral integrase contains a Pol dimerization domain required for protease activation. *J. Virol.* 85: 1655-1661, 2011. (RRL)

Ramalingam D, Duclair S, Datta SAK, Ellington A, **Rein A**, and Prasad VR: RNA aptamers directed to human immunodeficiency virus type 1 Gag polyprotein bind to the matrix and nucleocapsid domains and inhibit virus production. *J. Virol.* 85: 305-314, 2010. (RRL)

Stoye JP, Silverman RH, Boucher CA, and **Le Grice SFJ**: The xenotropic murine leukemia virus-related retrovirus debate continues at First International Workshop. *Retrovirology.* 7: 113, 2010. (RRL)

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

Salmon D, Torres de Holding C, Thomas L, Peterson K, Goodman G, Saavedra J, Srinivasan A, Davies K, **Keefer L**, and Miranda K: HNO and NO release from a primary amine-based diazeniumdiolate as a function of pH. *Inorg. Chem.* 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**

Zhang S, Readinger JA, DuBois W, Janka-Junttila M, Robinson R, Pruitt M, Bliskovsky V, Wu JZ, Sakakibara K, Patel J, **Parent CA, Tessarollo L**, Schwartzberg P and **Mock BA**: Constitutive mTOR inhibition alters cell size, immune cell development, and antibody production. Blood. In press. (LCBG)

Liu X, Yang X, Li Z, McMahon C, Sizer C, Barenboim-Stapleton L, Bliskovsky V, **Mock BA, Ried T**, London WB, Maris J and **Thiele CJ**: CASZ1, a candidate tumor suppressor gene suppresses tumor growth through reprogramming gene expression. Cell Death and Differentiation. In press. (LCBG)

Dutra A, Pak E, Wincovitch S, John K, **Poirier MC** and Olivero OA: Nuclear bud formation : a novel manifestation of Zidovudine genotoxicity. J Cytogenetics and Genome Res. In press. (LCBG)

Garcia WA, Huerta A, Carrasco KL, Pratt MM, John K, Petrosyan P, Rubio J, **Poirier MC** and Gonsebatt ME: Seasonal variations in levels of PAH-DNA adducts in young adults living in Mexico City. Mutagenesis. 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.**

Eberle FC, Rodriguez-Canales J, Wei L, Hanson JC, Killian JK, Sun H-W, Adams LG, Hewitt SM, **Wilson WH**, Pittaluga S, **Meltzer PS**, **Staudt L**, **Emmert-Buck MR**, and **Jaffe ES**: Methylation profiling of mediastinal gray zone lymphoma reveals a distinctive signature with elements shared by classical Hodgkin's lymphoma and primary mediastinal large B-cell lymphoma. *Haematologica*. In press. (LP)

### **Laboratory of Genomic Diversity - Stephen O'Brien, Ph.D.**

Johnson RC, Nelson GW, Troyer JL, **Lautenberger JA**, Kessing BD, **Winkler CA**, and **O'Brien SJ**: Accounting for multiple comparisons in a genome-wide association study (GWAS). *BMC Genomics*. 11: 724, 2010. (LGD)

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

**Ramamurthi KS**: Protein localization by recognition of membrane curvature. *Curr. Opin. Microbiol.* 13: 753-757, 2010. (LMB)

**Hassan R**, Cohen SJ, Phillips M, **Pastan I**, Sharon E, Kelly RJ, Schweizer C, Well S, and Laheru D: Phase I clinical trial of the chimeric anti-mesothelin monoclonal antibody MORAb-009 in patients with mesothelin-expressing cancers. *Clin. Cancer Res.* 16: 6132-6138, 2010. (LMB)

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

Zachrias AL, **Lewandoski M**, Rudnicki MA, and Gage PJ: Pitx2 is an upstream activator of extraocular myogenesis and survival. *Dev. Biol.* In press. (CDBL)

Ryazanova LV, Rondon LJ, Zieler S, Hu Z, Galli J, **Yamaguchi TP**, Mazur A, Fleig A, and Ryazanov AG: TRPM7 is essential for Mg(2+) homeostasis in mammals. *Nat Commun.* 1: 109, 2010. (CDBL)

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

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

Redon CE, Nakamura AJ, Goulliaeva K, Rahman A, Blakely WF, and **Bonner WM**: The use of gamma-H2AX as a biodosimeter for total-body radiation exposure in non-human primates. PLoS One 5: e15544, 2010. (LMP)

Gmeiner WH, Reinhold WC, and **Pommier Y**: Genome-wide mRNA and microRNA profiling of the NCI 60 Cell-line screen and comparison of FdUMP[10] with fluorouracil, floxuridine and topoisomerase I. Mol. Cancer Ther. 9: 3105-3114, 2010. (LMP)

Kiselev E, Dexheimer TS, **Pommier Y**, and Cushman M: Design, synthesis and evaluation of dibenzo[c,h][1,6]naphthyridines as topoisomerase I inhibitors and potential anticancer agents. J. Med. Chem. 53: 8716-8726, 2010. (LMP)

Solier S and **Pommier Y**: MDC1 cleavage by caspase-3: a novel mechanism for inactivating the DNA damage response during apoptosis. Cancer Res. In press. (LMP)

Bergmann JH, Rodriguez MG, Martins NM, Kimura H, Kelly DA, Masumoto H, **Larionov V**, Jansen LE, and Earnshaw WC: Epigenetic engineering shows H3K4me2 is required for HJURP targeting and CENP-A assembly on a synthetic human ninetochore. EMBO J. 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)**

Anderson LH, Boulanger CA, **Smith GH**, Carmeliet P, and Watson CJ: Stem cell marker Prominin-1 regulates branching morphogenesis, but not regenerative capacity, in the mammary gland. Developmental Dynamics. 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.**

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.**

Matthews P, Adland E, Listgarten J, Leslie A, Mkhwanazi N, Harndahl M, Carlson J, Payne R, Huang K, Frater J, Paioni P, Klooverpris H, Jooste P, Goedhals D, van Vuuren C, Steyn D, Riddell L, Chen F, Luzzi G, Balachandran T, Ndung'u T, Buus S, **Carrington M**, Shapiro R, Heckerman D, and Goulder P: HLA-A\*7401-associated immune control of C-clade HIV-1 infection independent of HLA-B\*5703 linkage disequilibrium. *J. Immunol.* 186: 5675-5686, 2011. (LEI)

**Carrington M** and Alter G: Insights into KIR associated protection in HIV disease. In: *Human Immunodeficiency Virus*. Cold Springs Laboratory Press. In press. (LEI)

Saleh M and **Trinchieri G**: Innate immune mechanisms of colitis and colitis-associated colorectal cancer. *Nature Reviews: Immunology.* 11(1): 9-20, 2010. (LEI)

Chang J, Lindsay R, Kulkarni S, Lifson J, **Carrington M**, and Altfeld M: Polymorphisms in IRF7 reduce IFN $\alpha$  responses of pDCs to HIV-1. *AIDS.* 25: 715-717, 2011. (LEI)

The International HIV Controllers Study and **Carrington M**: The major genetic determinants influencing HIV-1 control map to discrete amino acids involved in HLA class I peptide presentation. *Science.* 330: 1551-1557, 2010. (LEI)

Kuniholm M, Gao X, Xue X, Kovacs A, Marti D, Thio C, Peters M, Greenblatt R, Goedert J, Cohen M, Minkoff H, Gange S, Anastos K, Fazzari M, Young M, Strickler H, and **Carrington M**: The relation of HLA genotype with hepatitis C viral load and markers of liver fibrosis in HIV-infected and HIV-uninfected women. *Hematology.* 203: 1807-1814, 2011. (LEI)

Moitra K and **Dean M**: Evolution of ABC transporters by gene duplication and their role in human disease. *J. Biol. Chem.* 392: 29-37, 2011. (LEI)

McFarland AP, Savan R, Wagage S, Addison A, Ramakrishnan K, Karwan M, Duong T, and **Young H**: Localized delivery of interferon- $\beta$  by lactobacillus exacerbates experimental colitis. PLoS One. 6: e16967, 2011. (LEI)

Hodge D, Berthet C, Coppola V, Buschman M, Schaughencyl P, Razzook C, Subleski J, Shirotal H, Scarzellol A, Che A, Anver M, Kaldis P, **Tessarollo L, Klinman D, Wiltrot R**, and **Young H**: IFN-gamma ARE-deleted mice reveal a role for chronic IFN-gamma in autoimmune disease. Nature Immunol. In press. (LEI)

McCormack M, Alfirevic A, Bourgeois S, Farrell J, Kasperaviciute D, **Carrington M**, Sills G, Marson T, Jia X, de Bakker P, Chinthapalli K, Eudragene collaborators, Molokhia M, Johnson M, O'Connor G, Chaila E, Alhusaini S, Shianna K, Radtke R, Heinzen E, Walley N, Pandolfo M, Pichler W, Park B, Depondt C, Sisodiya S, and Goldstein D: HLA-A\*3101 is a genetic marker for clinical spectrum of carbamazepine-induced hypersensitivity reactions in caucasians. New Eng. J. Med. 364: 1134-1143, 2011. (LEI)

Park O, Wang H, Weng H, Feigenbaum L, Li H, Yin S, Ki S, Yoo S, Dooley S, Wang F, **Young H**, and Gao B: In vivo consequences of liver-specific internleukin-22 expression: implications for human liver disease progression. Hepatology. 54: 252-261, 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.**

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.**

There were no submissions reported this month.

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

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. (HAMB)

Jia R, Li C, McCoy JP, Deng C-X, and **Zheng Z-M**: SRp20 is a proto-oncogene critical for cell proliferation and tumor induction and maintenance. *Int. J. Biol. Sci.* 6: 806-826, 2010. (HAMB)

**Zheng Z-M**: Viral oncogenes, noncoding RNAs, and RNA splicing in human tumor viruses. *Int. J. Biol. Sci.* 6: 730-755, 2010. (HAMB)

## **Basic Research Laboratory**

There were no submissions reported this month.

## **Emeritus Scientists**

### **Victor Marquez**

Teider N, Scott DK, Neiss A, Weeraratne SD, Amani VM, Wang Y, **Marquez VE**, Cho YJ, and Pomeroy SL: Neuralized1 causes apoptosis and downregulates notch target genes in medulloblastoma. *Neuro-Oncology.* 12: 1244-1256, 2010. (CBL)