

## CCR MANUSCRIPT NOTIFICATION (APRIL 2011)

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

There were no submissions reported this month.

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

There were no submissions reported this month.

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

Gift SK, Zentner IJ, Schon A, McFadden K, Umashankara M, Rajagopal S, Contarino M, Duffy C, Courter JR, Zhang MY, Gershoni JM, Cocklin S, **Dimitrov DS**, Smith AB, Freire E, and Chaiken IM: Conformational and structural features of HIV-1 gp120 underlying the dual receptor antagonism by cross-reactive neutralizing antibody m18. *Biochemistry*. In press. (CCRNP)

Manzano M, Reichert ED, Polo S, Falgout B, Kasprzak W, **Shapiro BA**, and Padmanabhan R: Identification of *CIS*-acting elements in the 3'-untranslated region of the dengue virus type 2 RNA that modulate translation and replication. *J. Biol. Chem.* In press. (CCRNP)

Miller Y, Ma B, and **Nussinov R**: Synergistic interactions between repeats in tau protein and A $\beta$  amyloids may be responsible for accelerated aggregation via polymorphic states. *Biochemistry*. In press. (CCRNP)

Shukla GC, Haque F, Tor Y, Wilhelmsson M, Toulme J-J, Isambert H, Guo P, Rossi JJ, Tenenbaum SA, and **Shapiro BA**: A Boost for the Emerging Field of RNA Nanotechnology – Report on the First International Conference on RNA Nanotechnology. *ACS Nano*. In press. (CCRNP)

Smith B, Lyakhov I, Loomis K, Needle D, Baza U, Yavlovich A, Capala J, **Blumenthal R**, and Puri A: Hyperthermia-triggered intracellular delivery of liposomal contents to HER2<sup>+</sup> cells by HER2-specific affibody (ZHER2-GS-Cys)-conjugated Thermosensitive liposomes (HER2<sup>+</sup> affisomes). *J. Controlled Release*. 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.**

Nady N, Lemak A, Walker JR, Avvakumov GV, Kareta MS, Achour M, Xue S, Duan S, Allali-Hassani A, Zuo X, **Wang YX**, Bronner C, Chedin F, Arrowsmith CH, and Dhe-Paganon S: Recognition of multivalent histone states associated with heterochromatin by UHRF1. *J Biol Chem*. In press. (SBL)

Liao JC, Lam R, Brazda V, Duan S, Ravichandran M, Ma J, Xiao T, Tempel W, Zuo X, **Wang YX**, Chirgadze NY, and Arrowsmith CH: Interferon-inducible protein 16: insight into the interaction with tumor suppressor p53. *Structure*. 19(3): 418-429, 2011. (SBL)

Zuo X, Wang J, and **Wang YX**: NMR and SAXS: A Perfect Marriage and New Approach for RNA Structure Determination. In: *Advanced in Biological NMR*. Dingly A and Pascal S (Eds). IOS, In press. (SBL)

**Wang XY**, Wang J, Schwieters CD, and Zuo X: A Top-down Approach to Determine Global Structures of RNAs in Solution Using NMR and Small-angle X-ray Scattering Measurements. In: *RNA 3D Structure Analysis and Modeling*. Westhof E and Leontis N (Eds). Springer, In press. (SBL)

### **Molecular Targets Laboratory - James McMahon, Ph.D.**

There were no submissions reported this month.

### **Chemical Biology Laboratory - Joel Schneider, Ph.D.**

Bahta M, Lountos GT, Dyas B, Kim SE, Ulrich GR, **Waugh DS**, and **Burke Jr TR**: Utilization of nitrophenylphosphates and oxime-based ligation for the development of nanomolar affinity inhibitors of the *Yersinia pestis* outer protein H (YopH) phosphatase. *J Med Chem*. 54: 2933-2943, 2011. (CBL)

Shoreibah MG, Jackson CL, Price PW, Meagher R, Godwin AK, Cai Q, and **Gildersleeve JC**: Anti-human embryonic stem cell monoclonal antibody hesca-2 binds to a glycan epitope commonly found of carcinomas. *Stem Cells and Development*. 20: 515-525, 2011. (CBL)

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

There were no submissions reported this month.

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

Kosaka N, Mitsunaga M, Longmire MR, **Choyke PL**, and **Kobayashi H**: Near infrared fluorescence-guided real-time endoscopic detection of peritoneal ovarian cancer nodules using intravenously injected indocyanine green. *Int J Cancer*. In press. (MIP)

Turkbey B, Xu S, Kruecker J, Locklin J, Pang Y, Shah V, Bernardo M, Baccala A, Rastinehad A, Benjamin C, **Merino MJ**, Wood BJ, **Choyke PL**, and **Pinto PA**: Documenting the location of systematic transrectal ultrasound-guided prostate biopsies: correlation with multi-parametric MRI. *Cancer Imaging*. 11: 31-36, 2011. (MIP)

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

Crea F, Hurt EM, Mathews LA, Cabarcas SM, Sun L, **Marquez VE**, Danesi R, and **Farrar WL**: Pharmacologic disruption of Polycomb Repressive Complex 2 inhibits tumorigenicity and tumor progression in prostate cancer. *Mol. Cancer*. In press. (LCP)

Wei Q, Jiang H, Xiao Z, Baker A, Young MR, Veenstra TD, and **Colburn NH**: Sulfiredoxin-Peroxiredoxin IV axis promotes human lung cancer progression through modulation of specific phosphokinase signaling. *Proc. Natl. Acad. Sci. USA*. In press. (LCP)

Kasaikina MV, Kravtsova MA, Lee BC, Seravalli J, Peterson DA, Walter J, Legge R, Benson AK, **Hatfield DL**, and Gladyshev VN. *FASEB J*. 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.**

Robey RW, Ierano C, Zhan Z, and **Bates SE**: The Challenge of Exploiting ABCG2 in the Clinic. *Curr Pharm Biotechnol*. 12(4): 595-608, 2011. (MOB)

To KK, Robey R, Zhan Z, Bangiolo L, and **Bates SE**: Upregulation of ABCG2 by Romidepsin via the Aryl Hydrocarbon Receptor Pathway. *Mol Cancer Res*. 9(4): 516-527, 2011. (MOB)

Hollander MC, Blumenthal GM, and **Dennis PA**: PTEN loss in the continuum of common cancers, rare syndromes and mouse models. *Nat Rev Cancer*. 11(4): 289-301, 2011. (MOB)

**Giaccone G**, Rajan A, Berman A, Kelly RJ, Szabo E, Lopez-Chavez A, Trepel J, Lee MJ, Cao L, Espinoza-Delgado I, Spittler J, and Loehrer Sr PJ: Phase II Study of Belinostat in Patients With Recurrent or Refractory Advanced Thymic Epithelial Tumors. *J Clin Oncol*. In press. (MOB)

Keedy VL, Temin S, Somerfield MR, Beasley MB, Johnson DH, McShane LM, Milton DT, Strawn JR, Wakelee HA, and **Giaccone G**: American Society of Clinical Oncology Provisional Clinical Opinion: Epidermal Growth Factor Receptor (EGFR) Mutation Testing for Patients With Advanced Non-Small-Cell Lung Cancer Considering First-Line EGFR Tyrosine Kinase Inhibitor Therapy. *J Clin Oncol*. In press. (MOB)

Hoechst B, Gamrekelashvili J, Manns MP, **Greten TF**, and Korangy F: Plasticity of human Th17 cells and iTregs is orchestrated by different subsets of myeloid cells. *Blood*. In press. (MOB)

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

Kurotani R, Okumura S, Matsubara T, Yokoyama U, Buckley JR, Tomita T, Kezuka K, Nagano T, Esposito D, Taylor TE, Gillette WK, Ishikawa Y, Abe H, Ward JM, and **Kimura S**: Secretoglobin 3A2 suppresses bleomycin-induced pulmonary fibrosis by TGFbeta signaling down-regulation. *J. Biol. Chem.* In press. (LM)

Park J-E, Erikson RL, and **Lee KS**: Feed-forward mechanism of converting biochemical cooperativity to mitotic processes at the kinetochore plate. *Proc. Natl. Acad. Sci. USA*. In press. (LM)

Kang YH, Park CH, Soung N-K, Bang JK, Kim BY, and **Lee KS**: Mammalian Polo-like Kinase 1-dependent Regulation of the PBIP1-CENP-Q Complex at Kinetochores. *J Biol. Chem.* In press. (LM)

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

Hayashi R, Tanoue K, Durell SR, Chatterjee DK, Miller Jenkins LM, Appella DH, and **Appella E**: Optimization of a Cyclic Peptide Inhibitor of Ser/Thr Phosphatase PPM1D (Wip1). *Biochemistry*. In press. (LCB)

Khursigara C, Lan G, Neumann S, Wu X, Ravindran S, Borgnia M J, Sourjik V, Milne JLS, Tu Y, and **Subramaniam S**: Lateral density of receptor arrays in the membrane plane influences sensitivity of the *E.coli* chemotaxis response. *EMBO J.* In press. (LCB)

Szakai C, Narayan K, Fu J, Lefman J and **Subramaniam S**: Compositional Mapping of the surface and interior of mammalian cells at submicrometer resolution. *Anal. Chem.* 83: 1207-1213, 2011. (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.**

Siersbaek R, Nielsen R, John S, Sung MH, Baek S, Loft A, **Hager GL**, and Mandrup S: Adipogenic development is associated with extensive early remodeling of the chromatin landscape and establishment of transcription factor 'hotspots'. *EMBO J.* 30(8): 1459-1472, 2011. (LRBGE)

Lionnet T, Wu B, Grünwald D, Singer RH, and **Larson DR**: Nuclear Physics: Quantitative Single-Cell Approaches to Nuclear Organization and Gene Expression. Cold Spring Harb Symp Quant Biol. In press. (LRBGE)

**Larson DR**, Zenklusen D, Wu B, Chao JA, and Singer RH: Real-Time Observation of Transcription Initiation and Elongation on an Endogenous Yeast Gene. Science. 332(6028): 475-478, 2011. (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.**

Boltz VF, Zheng Y, Lockman S, Hong F, Halvas EK, McIntyre JA, Currier JS, Chibowa MC, Kanyama, Nair A, Owino-Ong'or W, Hughes MD, Coffin JM, and Mellors JW: Role of low-frequency HIV-1 variants in failure of nevirapine-containing antiviral therapy in women previously exposed to single dose nevirapine. Proc. Natl. Acad. Sci. USA. In press. (HVIB; PI: **Hughes SH**)

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

Checkley MA, Luttmann BG, and **Freed EO**: HIV-1 envelope glycoprotein biosynthesis, trafficking, and incorporation. J. Mol. Biol. 410: 582-608, 2011. (RRL)

Goicochea NL, Datta SAK, Ayaluru M, Kao C, **Rein A**, and Dragnea B: Structure and stoichiometry of template-directed recombinant HIV-1 Gag particles. J. Mol. Biol. 410: 667-680, 2011. (RRL)

Kenyon J, Tanner S, Legiewicz M, Phillip P, Rizvi T, **Le Grice SFJ**, and Lever A: Shape analysis of the HIV leader RNA reveals a potential structural switch controlling packaging and genome dimerization. Nucleic Acids Res. 39: 6692-6704, 2011. (RRL)

**Rein A**, Datta SA, Jones CP, and Musier-Forsyth K: Diverse interactions of retroviral Gag proteins with RNAs. Trends Biochem. Sci. 36: 373-380, 2011. (RRL)

Zhang H, Curreli F, Zhang X, Bhattacharya A, Waheed AA, Cooper A, Cowburn D, **Freed EO**, and Debnath K: Antiviral activity of  $\alpha$ -helical stapled peptides designed from the HIV-1 capsid dimerization domain. Retrovirology. 8: 28, 2011. (RRL)

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

Hogg ME, Varu VN, Vavra AK, Popowich DA, Banerjee MN, Martinez J, Jiang Q, Saavedra JE, **Keefer LK**, and Kibbe MR: Effect of nitric oxide on neointimal hyperplasia based on sex and hormone status. *Free Radical Biol. Med.* 50: 1065-1074, 2011. (LCC)

Jung S, Silviu D, Nolan KA, Borchert GL, Millet YH, **Phang JM**, and Gunn TM: Developmental cardiac hypertrophy in a mouse model of prolidase deficiency. *Birth Defects Research Part A: Clin. Mol. Teratology.* 91: 204-217, 2011. (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**

Murphy EA, Davis JM, Barrilleaux TL, McClellani JL, Steiner JL, Carmichael MD, Pena MM, Herbert JR and **Green JE**: Benefits of exercise training on breast cancer progression and inflammation in C3(1)Tag mice. *Cytokine.* In press. (LCBG)

Hoenerhoff M, Chu IM and **Green JE**: BMI 1 suffers a degrading experience. *Cell Cycle.* In press. (LCBG)

Kedei N, Lubart E, Lewin NE, Telek A, Lim L, Mannan P, Garfield SH, Kraft MB, Keck GE, Kolusheva S, Jelinek R, and **Blumberg PM**: Some phorbol esters may partially resemble bryostatins in their actions on LNCaP prostate cancer cells and U937 leukemia cells. *Chem Bio Chem.* In press. (LCBG)

Yang D, Tao J, Li L, Kedei N, Toth ZE, Czap A, Velasquez JF, Mihova D, Michalowski AM, **Yuspa SH** and **Blumberg PM**: RasGRP3, a Ras activator, contributes to signaling and the tumorigenic phenotype in human melanoma. *Oncogene*. In press. (LCBG)

Lee JH, LeeY, Ryu HC, Kang DW, Lee J, Lazar J, Pearce LV, Pavlyukovets VA, **Blumberg PM** and Choi S: Structural insights into transient receptor potential vanilloid type 1 (TRPV1) from homology modeling, flexible docking, and mutational studies. *J. Computer-Aided Mol. Design*. In press. (LCBG)

Kedei N, Telek A, Czap A, Lubart ES, Czifra G, Chen J, Morrison T, Goldsmith PK, Lim L, Manam P, **Garfield SH**, Kraft MB, Li W, Keck GE and **Blumberg PM**: The bryostatin derivative Merle 23 displays variable extents of bryostatin-like activity for different biological endpoints in the LNCaP human prostate cancer cell line. *Biochem Pharmacol*. 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.**

Cohen JI, **Jaffe ES**, Dale JK, Pittaluga S, Heslop HE, Rooney CM, Gottschalk S, Bollard CM, Rao VK, Marques A, Burbelo PD, Turk SP, Fulton R, **Wayne AS**, Little RF, Cairo MS, El-Mallawany NK, Fowler D, Sportes C, Bishop MR, **Wilson WH**, and Straus SE: Characterization and treatment of chronic active Epstein-Barr virus disease: a 28 year experience in the United States. *Blood*. In press. (LP)

Grant C, Dunleavy K, Eberle FC, Pittaluga S, **Wilson WH**, and **Jaffe ES**: Primary mediastinal large B-cell lymphoma, classic Hodgkin lymphoma presenting in the mediastinum, and mediastinal gray zone lymphoma: What is the oncologist to do? *Current Hematologic Malignancy Reports*. In press. (LP)

Lo DJ, Weaver TA, **Kleiner DE**, Mannon RB, Jacobson LM, Becker BN, Swanson SJ, Hale DA, and Kirk AD: Chemokines and their receptors in human renal allotransplantation. *Transplantation*. 91(1): 70-77, 2011. (LP)

Rodriguez-Canales J, Eberle FC, **Jaffe ES**, and **Emmert-Buck MR**: Why is it crucial to reintegrate pathology into cancer research. *BioEssays*. In press. (LP)

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

Troyer JL, Nelson GW, Lautenberger JA, Chinn L, McIntosh C, Johnson RD, Sezgin E, Kessing B, Malasky M, Hendrickson SL, Li G, Pontius J, Tang M, An P, **Winkler CA**, Limou S, LeClerc S, Delaneau O, Zagury JF, Schuitemaker H, van Mjanen D, Bream JH, Gomperts ED, Buchbinder S, Goedert JJ, Kirk GD, and **O'Brien SJ**: Genome-wide association study implicates PARD3B-based AIDS Restriction. *J. Infect. Dis.* 203: 1491-502, 2011. (LGD)

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

Miot M, Reidy M, Doyle SM, Hoskins JR, Johnston DM, Genest O, Vitery MC, Masison DC, and **Wickner S**: Species-specific collaboration of heat shock proteins (Hsp) 70 and 100 in thermotolerance and protein disaggregation. *Proc. Natl. Acad. Sci. U.S.A.* 108: 6915-6920, 2011. (LMB)

Camberg JL, Hoskins JR, and **Wickner S**: The interplay of ClpXP with the cell division machinery in *Escherichia coli*. *J. Bacteriol.* 193: 1911-1918, 2011. (LMB)

**Gottesman S**: Microbiology: Dicing defence in bacteria. *Nature.* 471: 588-589, 2011. (LMB)

Feng M, Zhang J, Anver M, **Hassan R**, and **Ho M**: In vivo imaging of human malignant mesothelioma grown orthotopically in the peritoneal cavity of nude mice. *J. Cancer.* 2: 123-131, 2011. (LMB)

Onda M, Beers R, Xiang L, Lee B, Weldon JE, **Kreitman RJ**, and **Pastan I**: Recombinant immunotoxins against B-cell malignancies with no immunogenicity in mice by removal of B-cell epitopes. *Proc. Natl. Acad. Sci. U.S.A.* 108: 5742-5747, 2011. (LMB)

## **Cancer and Developmental Biology Laboratory - Alan Perantoni, Ph.D.**

Naiche LA, Holder N, and **Lewandoski M**: FGF4 and FGF8 comprise the wavefront activity that controls somitogenesis. *Proc. Natl. Acad. Sci. USA.* 108: 4018-4023, 2011. (CDBL)

Wang Y, Cheng Z, Elalieh HZ, Nakamura E, Nguyen MT, **Mackem S**, Clemens TL, Bikle DD, and Chang W: IGF-1R Signaling in chondrocytes modulates growth plate development by interacting with the PTHrP/Ihh pathway. *J. Bone Miner Res.* In press. (CDBL)

Zacharias AL, **Lewandoski M**, Rudnick MA, and Gage PJ: Pitx2 is an upstream activator of extraocular myogenesis and survival. *Dev. Biol.* 349: 395-405, 2011. (CDBL)

Zhu J and **Mackem S**: Analysis of mutants with altered shh activity and posterior digit loss supports a biphasic model for shh function as a morphogen and mitogen. *Dev. Dyn.* 240: 1303-1310, 2011. (CDBL)

Suh YH, Yoshimoto-Furusawa A, Weih KA, **Tessarollo L**, Roche KW, **Mackem S**, and **Roche PA**: Deletion of SNAP-23 results in pre-implantation embryonic lethality in mice. *PLoS One.* 29: e18444, 2011. (CDBL)

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

Martin OA, Redon CE, Dickey JS, Nakamura AJ, and **Bonner WM**: Para-inflammation mediates systemic DNA damage in response to tumor growth. *Commun. Integr. Biol.* In press. (LMP)

**Steeg PS**, **Camphausen KA**, and Smith QR: Brain metastases as preventive and therapeutic targets. *Nat. Rev. Cancer.* 11: 352-363, 2011. (LMP)

Kummar S, Gutierrez ME, Maurer BJ, Reynolds CP, Kang M, Singh H, Crandon S, Murgo AJ, and **Doroshov JH**: Phase I trial of fenretinide lym-x-sorb oral powder in adults with solid tumors and lymphomas. *Anticancer Res.* 31: 961-966, 2011. (LMP)

Wu Y, Antony S, Juhasz A, Lu J, Ge Y, Jiang G, Roy K, and **Doroshov JH**: Up-regulation and sustained activation of Stat1 are essential for interferon-(gamma) (IFN-(gamma))-induced dual oxidase 2 (Duox2) and dual oxidase A2 (DuoA2) expression in human pancreatic cancer cell lines. *J. Biol. Chem.* 286: 12245-12256, 2011. (LMP)

Zoppoli G, Douarre C, Dalla Rosa I, Liu H, Reinhold W, and **Pommier Y**: Coordinated regulation of mitochondrial topoisomerase IB with mitochondrial nuclear encoded genes and MYC. *Nucl. Acids Res.* In press. (LMP)

Metifiot M, Vandegraaff N, Maddali K, Naumova A, Zhang X, Rhodes D, Marchand C, and **Pommier Y**: Elvitegravir overcomes resistance to raltegravir induced by integrase mutation Y143. *AIDS.* In press. (LMP)

Somlo G, Lashkari A, Bellamy W, Zimmerman TM, Tuscano JM, O'Donnell MR, Mohrbacher AF, Forman SJ, Frankel P, Chen HX, **Doroshov JH**, and Gandara DR: Phase II randomized trial of bevacizumab versus bevacizumab and thalidomide for relapsed/refractory multiple myeloma: a California Cancer Consortium trial. *Br. J. Haematol.* In press. (LMP)

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

There were no submissions reported this month.

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

There were no submissions reported this month.

**Laboratory of Cellular and Molecular Biology - Larry Samelson, M.D.**

There were no submissions reported this month.

**Laboratory of Tumor Immunology and Biology - Jeffrey Schlom, Ph.D.**

Gameiro SR, Caballero JA, Higgins JP, Apelian D, and **Hodge JW**: Exploitation of differential homeostatic proliferation of T-cell subsets following chemotherapy to enhance the efficacy of vaccine-mediated antitumor responses. *Cancer Immunol. Immunother.* In press (LTIB)

Cereda V, Vergati M, Huen N-Y, di Bari MG, Jochems C, Intrivici C, **Gulley JL**, Apelian D, **Schlom J**, and Tsang KY: Maturation of human dendritic cells with *Saccharomyces cerevisiae* (yeast) reduces the number and function of regulatory T cells and enhances the ratio of antigen-specific effectors to regulatory T cells. *Vaccine.* 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.**

Watkins SK, Zhu Z, Riboldi E, Shafer-Weaver KA, Stagliano KER, Sklavos MM, **Ambis S**, Yagita H, and **Hurwitz AA**: FOXO3 Programs Tumor-Associated DCs To Become Tolerogenic in Human and Murine Prostate Cancer. *J. Clin Invest.* 121(4): 1361-1372, 2011. (LMI)

**Laboratory of Experimental Immunology - Giorgio Trinchieri, M.D.**

Alter A, Huong NT, Singh M, Orlova M, Van Thuc N, Katoch K, Gao X, Thai VH, Ba NN, **Carrington M**, Abel L, Mehra N, Alcais A, and Schurr E: Human leukocyte antigen class I regional single-nucleotide polymorphisms are associated with leprosy susceptibility in Vietnam and India. *J Infect Dis.* 203: 1274-1281, 2011. (LEI)

Yamamoto M, Sato T, Beren J, Verthelyi D, and **Klinman DM**: The acceleration of wound healing in primates by the local administration of immunostimulatory CpG oligonucleotides. *Biomaterials*. 18: 4238-4242, 2011. (LEI)

Shirota H and **Klinman DM**: CpG-conjugated apoptotic tumor cells elicit potent tumor-specific immunity. *Cancer Immunol Immunother*. 60: 659-669, 2011. (LEI)

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

Stauffer JK, Scarzello AJ, Andersen JB, De Kluiver RL, Back TC, Weiss JM, **Thorgeirsson SS**, and **Wiltrout RH**: Coactivation of AKT and  $\beta$ -catenin in mice rapidly induces formation of lipogenic liver tumors. *Cancer Res*. 71: 2718-2727, 2011. (LEI)

Fukuda Y, Aguilar-Bryan L, Vaxillaire M, Dechaume A, Wang Y, **Dean M**, Moitra K, Bryan J, and Schuetz JD: Conserved intramolecular disulfide bond is critical to trafficking and fate of ATP-binding cassette (ABC) transporters ABCB6 and sulfonylurea receptor 1 (SUR1)/ABCC8. *J Biol Chem*. 286: 8481-8492, 2011. (LEI)

Bode C, Zhao G, Steinhagen F, Kinjo T, and **Klinman DM**: CpG DNA as vaccine adjuvant. *Expert Rev Vaccines*. 10: 499-511, 2011. (LEI)

Johannessen L, Remsberg J, Gaponenko V, Adams KM, **Barchi Jr JJ**, Tarasov SG, Jiang S, and **Tarasova NI**: Peptide structure stabilization by membrane anchoring and its general applicability to the development of potent cell-permeable inhibitors. *Chembiochem*. 12: 914-921, 2011. (LEI)

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*. 352: 58-69, 2011. (LEI)

Orr SJ and **McVicar DW**: LAB/NTAL/Lat2: a force to be reckoned with in all leukocytes? *J Leukoc Biol*. 89: 11-19, 2011. (LEI)

Cichocki F, Miller JS, and **Anderson SK**: Killer immunoglobulin-like receptor transcriptional regulation: a fascinating dance of multiple promoters. *J Innate Immun*. 3: 424-248, 2011. (LEI)

Stewart CA and **Trinchieri G**: At 17, in-10's passion need not inflame. *Immunity*. 34: 460-462, 2011. (LEI)

Barao I, Alvarez M, Ames E, Orr MT, Stefanski HE, Blazar BR, Lanier LL, **Anderson SK**, Redelman D, and Murphy WJ: Mouse Ly49G2+ NK cells dominate early responses during both immune reconstitution and activation independent of MHC. *Blood*. In press. (LEI)

Qi J, Buzas K, Fan H, Cohen JI, Wang K, Mont E, **Klinman D, Oppenheim JJ**, and Howard OM: Painful Pathways Induced by TLR Stimulation of Dorsal Root Ganglion Neurons. *J Immunol*. In press. (LEI)

McKay GJ, Silvestri G, Chakravarthy U, Dasari S, Fritsche LG, Weber BH, Keilhauer CN, Klein ML, Francis PJ, Klaver CC, Vingerling JR, Ho L, De Jong PT, **Dean M**, Sawitzke J, Baird PN, Guymer RH, Stambolian D, Orlin A, Seddon JM, Peter I, Wright AF, Hayward C, Lotery AJ, Ennis S, Gorin MB, Weeks DE, Kuo CL, Hingorani AD, Sofat R, Cipriani V, Swaroop A, Othman M, Kanda A, Chen W, Abecasis GR, Yates JR, Webster AR, Moore AT, Seland JH, Rahu M, Soubrane G, Tomazzoli L, Topouzis F, Vioque J, Young IS, Fletcher AE, and Patterson CC: Variations in Apolipoprotein E Frequency With Age in a Pooled Analysis of a Large Group of Older People. *Am J Epidemiol*. In press. (LEI)

Ikeuchi H, Kinjo T, and **Klinman DM**: Effect of suppressive oligodeoxynucleotides on the development of inflammation-induced papillomas. *Cancer Prev Res (Phila)*. 4: 752-757, 2011. (LEI)

Fadda L, O'Connor G, Kumar S, Piechocka-Trocha A, Gardiner C, **Carrington M, McVicar D**, and Altfeld M: Common HIV-1 peptide variants mediate differential binding of KIR3DL1 to HLA-Bw4 molecules. *J Virol*. 85: 5970-5974, 2011. (LEI)

**Trinchieri G**: Inflammation in cancer: a therapeutic target? The Kamp, Shacter, and Weitzman Article. In press. (LEI)

## **Dermatology Branch - Mark Udey, M.D., Ph.D.**

Bradford PT, Goldstein AM, Tamura D, Khan SG, Ueda T, Boyle J, Oh K-S, Imoto K, Inui H, Moriwaki S-I, Emmert S, Pike KM, Raziuddin A, Plona TM, DiGiovanna JJ, Tucker MA, and **Kraemer KH**: Cancer and neurologic degeneration in xeroderma pigmentosum: long term follow-up characterizes the role of DNA repair. *J. Med. Genet*. 48: 168-176, 2011. (DB)

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### **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.**

Tsai YC and **Weissman AM**: Ubiquitylation in ERAD: Reversing to Go Forward? *PLoS Biol.* 9(3): e1001038, 2011. (LPDS)

Cohen MM, Amriott EA, Day AR, Leboucher GP, Pryce EN, Glickman MH, McCaffery JM, Shaw JM and **Weissman AM**: Sequential requirements for the GTPase domain of the mitofusin Fzo1 and the ubiquitin ligase SCFMdm30 in mitochondrial outer membrane fusion. *J Cell Sci*. 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.**

There were no submissions reported this month.

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

There were no submissions reported this month.

## Basic Research Laboratory

Igo Jr RP, Iyengar SK, Nicholas SB, Goddard KA, Langefeld CD, Hanson RL, Duggirala R, Divers J, Abboud H, Adler SG, Arar NH, Horvath A, Elston RC, Bowden DW, Guo X, Ipp E, Kao WH, Kimmel PL, Knowler WC, Meoni LA, Molineros J, Nelson RG, Pahl MV, Parekh RS, Rasooly RS, Schelling JR, Shah VO, Smith MW, **Winkler CA**, Zager PG, Sedor JR, and Freedman BI: Genomewide Linkage Scan for Diabetic Renal Failure and Albuminuria: The FIND Study. *Am J Nephrol.* 33(5): 381-389, 2011. (BRL)

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## Emeritus Scientists

### Victor Marquez

Stumpel DJPM, Schotte D, Lange-Turenhout EAM, Schneider P, Seslija L, de Menezes, RX, **Marquez VE**, Pieters R, den Boer ML, and Stam RW: Hypermethylation of specific microRNA genes in *MLL*-rearranged infant acute lymphoblastic leukemia: major matters at a micro scale. *Leukemia.* 25: 429-439, 2011. (CBL)