

CCR MANUSCRIPT NOTIFICATION (MARCH 2009)

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

Mittelstadt PR, Yamaguchi H, **Appella E**, and **Ashwell JD**: TCR-mediated activation of p38alpha by mono-phosphorylation of the activation loop results in altered substrate specificity. J Biol Chem. In press. (LCB)

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

Franchini G: Choosing the right memory T cell for HIV. News & Views: Nature Med. 15: 244-246, 2009. (VB)

Giovanni Abbadessa, Roberto Accolla, Fernando Aiuti, Adriana Albini, Anna Aldovini, Massimo Alfano, Guido Antonelli, Courtenay Bartholomew, Zvi Bentwich, Umberto Bertazzoni, **Jay A. Berzofsky**, Peter Biberfeld, Enzo Boeri, Luigi Buonaguro, Franco M. Buonaguro, Michael Bukrinsky, Arsène Burny, Arnaldo Caruso, Sharon Cassol, Prakash Chandra, Luca Ceccherini-Nelli, Luigi Chieco-Bianchi, Mario Clerici, Sandra Colombini-Hatch, Carlo de Giuli Morghen, Andrea de Maria, Anita de Rossi, Manfred Dierich, Riccardo Dalla-Favera, Antonina Dolei, Daniel Douek, Volker Erfle, **Barbara Felber**, Simona Fiorentini, **Genoveffa Franchini**, Jonathan M. Gershoni, Frances Gotch, Patrick Green, Warner C. Greene, William Hall, William Haseltine, Stephens Jacobson, Lars O. Kallings, Vaniambadi S. Kalyanaraman, Hermann Katinger, Kamel Khalili, George Klein, Eva Klein, Mary Klotman, Paul Klotman, Moshe Kotler, Reinhard Kurth, Alain Lafeuillade, Michelangelo La Placa, Jonathan Lewis, Flavia Lillo, Julianna Lisziewicz, Anita Lomonico, Lucia Lopalco, Franco Lori, Paolo Lusso, Beatrice Macchi, Michael Malim, Leonid Margolis, Phillip D. Markham, Myra McClure, Nancy Miller, Maria C. Mingari, Lorenzo Moretta, Douglas Noonan, **Steve O'Brien**, Takashi Okamoto, Ranajit Pal, Peter Palese, Amos Panet, Giuseppe Pantaleo, **George Pavlakis**, Mauro Pistello, Stanley Plotkin, Guido Poli, Roger Pomerantz, Antonia Radaelli, **Marjorie Robert-Guroff**, Mario Roederer, Mangalasseril G. Sarngadharan, Dominique Schols, Paola Secchiero, Gene Shearer, Antonio Siccardi, Mario Stevenson, Jan Svoboda, Jim Tartaglia, Giuseppe Torelli, Maria Lina Tornesello, Erwin Tschachler, Mauro Vaccarezza, Angelika Vallbracht, Jan van Lunzen, Oliviero Varnier, Elisa Vicenzi, Harald von Melchner, Isaac Witz, Daniel Zagury, Jean-Francois Zagury, Giorgio Zauli, and Donato Zipeto: Unsung Hero Robert C. Gallo. Science. 323: 206-207, 2009. (VB)

Fukumoto R, Andresen V, Bialuk I, Cecchinato V, Walser JC, Valeri V, Nauroth J, Gessain A, Nicot C, and **Franchini G**: In vivo genetic mutations define predominant functions of the human T-cell Leukemia/lymphoma virus p12 protein. Blood. In press. (VB)

Vaccari M, Mattapallil J, Song K, Tsai WP, Hryniewicz A, Venzon D, Zanetti M, Reimann KA, Roederer M, and **Franchini G**: Reduced protection from Simian Immunodeficiency Virus SIVmac251 infection afforded by memory CD8+T-cells induced by vaccination during CD4+T-cell deficiency. *J. Virol.* 82(19): 9629-9638, 2008. (VB)

Vaccari M, Boasso A, Ma ZM, Cecchinato V, Venzon D, Doster MN, Tsai WP, Shearer GM, Fuchs D, **Felber B, Pavlakis G**, Miller JC, and **Franchini G**: CD4+ T-cell Loss and Delayed Expression of modulators of Immune Responses at Mucosal Sites of Vaccinated Macaques following SIVmac251 infection. *Mucosal Immunology.* 1: 497-507, 2008. (VB)

Herbeuval J-P, Nilsson J, Boasso A, Hardy AW, Vaccari M, Cecchinato V, Valeri V, **Franchini G**, Andersson J, and Shearer GM: HAART reduces death ligand but not death receptors in lymphoid tissue of HIV-infected patients and SIV-infected macaques. *Concise Communication. AIDS.* 23: 35-40, 2009. (VB)

Vaccari M and **Franchini G**: HIV vaccines: What are we learning from failure? Hot News column, *AIDS Rev.* 10: 255, 2009. (VB)

Boasso A, Vaccari M, Fuchs D, Hardy AW, Tsai WP, Trynieszewska E, Shearer GM, and **Franchini G**: Combined effect of antiretroviral therapy and blockade of IDO in SIV-infected rhesus macaques. *J Immunol.* 182(7): 4313-4320, 2009. (VB)

Vaccari M and **Franchini G**: Memory T-cells in Rhesus Macaques. Chapter Category: Molecular Biology. From the book: *Memory T Cells.* In press. (VB)

CCR Nanobiology Program - Robert Blumenthal, Ph.D.

de Sousa Abreu R, Sanchez-Diaz PC, Vogel C, Burns SC, Ko D, Burton TL, Vo DT, Chennasamudaram S, Le SY, **Shapiro BA**, and Penalva LO: Genomic analyses of Musashi1 downstream targets show a strong association with cancer related processes. *J. Biol. Chem.* In press. (CCRNP)

Feng Y, Xiao X, Zhu Z, Streaker E, Ho M, **Pastan I**, and **Dimitrov DS**: A novel human monoclonal antibody that binds with high affinity to mesothelin-expressing cells and kills them by ADCC. *Mol. Cancer Therapeutics.* In press. (CCRNP)

Garg H, Joshi A, and **Blumenthal R**: altered bystander apoptosis induction and pathogenesis of enfuvirtide resistant HIV-1 Env mutants. *AIDS Res. Human Retroviruses.* In press. (CCRNP)

Gong R, Vu BK, Feng Y, Prieto DA, Dyba MA, Walsh JD, Prabakaran P, Veenstra, TD, Tarasov SG, Ishima R, and **Dimitrov DS**: Engineered human antibody constant domains with increased stability. *J. Biol. Chem.* In press. (CCRNP)

Puri A and **Blumenthal R**: HIV-1 entry correlates with plasma membrane microdomain lateral assemblies of receptors: Implications in AIDS treatment. *J. Viral Entry*. In press. (CCRNP)

Viard M, Garg H, **Blumenthal R**, and Raviv Y: Photo-activation of the hydrophobic probe iodonaphthylazide in cells alters membrane protein function leading to cell death. *BMC Cell Biol*. In press. (CCRNP)

Xiao X, Ho M, Zhu Z, **Pastan I**, and **Dimitrov DS**: Identification and characterization of fully human anti-CD22 monoclonal antibodies. *mAbs*. 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.

Cao X, Plasencia C, Kanzaki A, Yang A, **Burke Jr TR**, and Neamati N: Elucidation of the molecular mechanisms of a salicylhydrazide class of compounds by proteomic analysis. *Current Cancer Drug Targets*. 9: 189-201, 2009. (LMC)

Barchi Jr JJ and Kaczmarek P: Short and Sweet: Evolution of a small glycopeptides from a bladder disorder to an anticancer lead. *Molecular Interventions*. 9: 14-17, 2009. (LMC)

Zhao XZ, Maddali K, Vu BC, **Marchand C**, **Hughes SH**, **Pommier Y**, and **Burke Jr TR**: Examination of halogen substituent effects on HIV-1 integrase inhibitors derived from 2,3-dihydro-6,7-dihydroxy-1H-isoindol-1-ones and 4,5-dihydroxy-1H-isoindole-1,3(2H)-diones. *Bioorg. Med. Chem. Lett*. 19: 2714-2717, 2009. (LMC)

Molecular Targets Discovery Program - 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.

There were no submissions reported this month.

Molecular Imaging Program - Peter Choyke, M.D.

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 two-tumor coincident model of ovarian cancer. *Cancer Sci.* In press. (MIP)

Choyke PL: Commentary on “Computed tomography in the diagnosis of adrenal disease” and “Nonfunctioning adrenal masses: incidental discovery on computed tomography.” *Am J Roentgenol.* 192(3): 568-570, 2009. (MIP)

Ogawa M, Kosaka N, **Choyke PL**, and Kobayashi H: In vivo molecular imaging of cancer with a quenching near-infrared fluorescent probe using conjugates of monoclonal antibodies and indocyanine green. *Cancer Res.* 69(4): 1268-1272, 2009. (MIP)

Ogawa M, Kosaka N, **Choyke PL**, and Kobayashi H: Tumor-specific detection of an optically targeted antibody combined with a quencher-conjugated neutravidin "quencher-chaser": a dual "quench and chase" strategy to improve target to nontarget ratios for molecular imaging of cancer. *Bioconjug Chem.* 20(1): 147-154, 2009. (MIP)

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

There were no submissions reported this month.

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

Li A, Walling J, Ahn S, Kotliarov Y, Su Q, Quezado M, **Oberholtzer JC**, Park J, Zenklusen JC, and **Fine HA**: Unsupervised analysis of transcriptomic profiles reveals six glioma subtypes. *Cancer Res.* 69(5): 2091-2099, 2009. (NOB)

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

Han W, Gills JJ, Lam S and **Dennis PA**: The chemopreventive agent, myoinositol, inhibits Akt and ERK in bronchial lesions from heavy smokers. *Cancer Prevention Res.* In press. (MOB)

Granville CA, Memmott RM, Balogh A, Mariotti J, Kawabata S, Han W, LoPiccolo J, Foley JJ, Liewehr D, Steinberg S, Fowler DH, Hollander MC, and **Dennis PA**: A central role for Foxp3+ regulatory T cells in K-Ras-driven lung tumorigenesis. *PLoS One.* In press. (MOB)

Wang Y, DiGiovanna JJ, Stern JB, **Horniyak TJ**, **Raffeld M**, Khan SG, Oh K-S, **Dennis PA**, and **Kraemer KH**: Evidence of ultraviolet type mutations in xeroderma pigmentosum melamonas. *Proc. Natl. Acad. Sci. USA.* In press. (MOB)

Dennis PA: Rapamycin for chemoprevention of upper-aerodigestive tract cancers. *Cancer Prevention Res.* 2: 7-9, 2009. (MOB)

Memmott R and **Dennis PA:** Akt-dependent and -independent mechanisms of mTOR regulation in cancer. *Cellular Signalling.* 21: 656-664, 2009. (MOB)

Gills JJ and **Dennis PA:** Perifosine: update on a novel Akt inhibitor. *Current Oncology Reports.* 11: 102-110, 2009. (MOB)

Sung SY, Hsieh CL, Law A, Zhau H, Pathak S, Multani AS, Lim S, Coleman IM, Wu LC, **Figg WD, Dahut WL,** Nelson P, Lee JK, Amin MB, Johnstone PA, Marshall FF, and Chung LW: Coevolution of Prostate Cancer and Bone Stroma in Three-dimensional Coculture: Implications for Cancer Growth and Metastasis. *Cancer Res. USA.* 68: 9996-10003, 2008. (MOB)

Gardner ER and **Figg WD:** Book Review: Review of Genomics and pharmacogenomics in anticancer drug development and clinical response. *Clin. Pharmacol. Ther. USA.* 85: 124-125, 2009. (MOB)

Danish M, Gardner ER, and **Figg WD:** Determination of a Benzamide Histone Deacetylase Inhibitor, MS-275, in Human Plasma by Liquid Chromatography with Mass Spectrometric Detection. *J. Chromatogr. B. Netherlands.* 877: 355-359, 2009. (MOB)

Woo S, Gardner ER, Chen X, Ockers SB, Baum CE, Sissung TM, Price DK, Frye R, Peikarz RL, **Bates SE,** and **Figg WD:** Population Pharmacokinetics of Romidepsin in Patients with Cutaneous T-cell Lymphoma and Relapsed Peripheral T-cell Lymphoma. *Clin. Cancer Res. USA.* 15: 1496-1503, 2009. (MOB)

Zhu W, Chau CH, **Gulley JL, Dahut WL,** and **Figg WD:** Immunomodulating Drugs (IMiDs) for the Treatment of Prostate Cancer. Chanan-Khan A and Lee K (Ed). In: *Immunomodulating Drugs for the Treatment of Cancer.* In press. (MOB)

Pressler H and **Figg WD:** Phenotypic Approach to Drug Discovery. *Cancer Bio. Ther.* In press. (MOB)

Dahut WL, Aragon-Ching JB, Woo S, Tohnya TM, **Gulley JL,** Arlen PM, Venitz J, Wright JJ, and **Figg WD:** A Phase I Study of Oral CC-5013 (Lenalinomide, Revlimid) in Patients with Refractory Metastatic Cancer. *J. Clin. Pharmacol.* In press. (MOB)

Figg WD, Cox MC, and Thurman PW: Differences Between Business Leader and Healthcare Professional Reliance on Academic Research. *Open Business Journal.* In press. (MOB)

Wolfe ME, Yagoda D, Thurman PW, Luna JM, and **Figg WD:** NCI Designated Cancer Center Funding Not Influenced by Organizational Structure. *Cancer Bio. Ther.* In press. (MOB)

Ning YM, **Figg WD**, and **Dahut WL**: Reversal of Docetaxel Resistance with Bevacizumab and Thalidomide. Clin. Genitourin Cancer. In press. (MOB)

Mucci LA, Stark JR, **Figg WD**, Schumacher F, Li H, Abe M, Hennessey K, Stampfer MJ, Gaziano JM, Ma J, and Kantoff PW: Polymorphism in Endostatin, an Angiogenesis inhibitor, and Prostate Cancer Risk and Survival: A Prospective Study. Intl J Cancer. In press. (MOB)

Luna JM, Thurman P, Wolfe M, Yagoda D, and **Figg WD**: Administrative Costs of Health Insurance for Hematology-Oncology Private Practice. J. Oncology Practice. In press. (MOB)

Deeken J, Cormier T, Price DK, Steinberg SM, Tran K, Liewehr DJ, Hardenbol P, **Dahut WL**, Miao X, and **Figg WD**: A Pharmacogenetic Study of Docetaxel and Thalidomide in Patients with Androgen-Independent Prostate Cancer Using the New Affymetrix DME-T 1.0 Genotyping Platform. The Pharmacogenomics Journal. In press. (MOB)

Laboratory of Metabolism - Frank Gonzalez, Ph.D.

There were no submissions reported this month.

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

Calcagno AM and **Ambudkar SV**: The molecular mechanism of drug resistance in single-step and multi-step-selected cancer cells. Zhou J (Ed.). In: Multidrug Resistance in Cancer, Humana Press, Inc., Totowa, NJ. In press. (LCB)

Calcagno AM and **Ambudkar SV**: Analysis of expression of drug resistance-linked ABC transporters in cancer cells by quantitative RT-PCR. Yan Q (Ed.). In: Membrane Transporters in Drug Discovery and Development: Methods and Protocols, Humana Press Inc., Totowa, NJ. In press. (LCB)

Hall M, Salam N, Hellowell J, Fales H, Kensler C, Ludwig J, Szakacs G, Hibbs D, and **Gottesman M**: Synthesis, activity and pharmacophore development for isatin-beta-thiosemicarbazones with multidrug resistance MDR1-selective activity. J Med Chem. In press. (LCB)

Hildebrand M, Kim S, Shi D, Scott K and **Subramaniam S**: 3D Imaging of Diatoms with Ion-abrasion Scanning Electron Microscopy. J Struct Biol. In press. (LCB)

Kornhauser A, Wei RR, Yamaguchi Y, Coelho SG, Kaidbey KH, Barton C, Takahashi K, Beer JZ, Miller SA, and **Hearing VJ**: The effects of topically applied glycolic acid and salicylic acid on ultraviolet radiation-induced erythema, DNA damage and sunburn cell formation in human skin. J Dermatol Sci. In press. (LCB)

Sanchez-Laorden BL, Valencia JC, **Hearing VJ**, Jimenez-Cervantes C, and Garcia-Borrón JC: Aberrant trafficking of skin cancer associated human melanocortin 1 receptor variants: Steady state retention of mutant forms in the proximal Golgi. *J Cell Physiol*. In press. (LCB)

Sauna ZE and **Ambudkar SV**: Evolution and function of the multidrug resistance-linked ABC transporters in bacteria and cancer cells. Ponte-Sucre A (Ed.). In: *ABC Transporters in Microorganisms*, Caister Academic Press, U.K. 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.

Dalal Y: Epigenetic Specification of Centromeres. *Biochem Cell Biol*. 87: 273-282, 2009. (LRBGE)

Voss TC, Schiltz RL, Sung MH, Johnson TA, John S, and **Hager GL**: Combinatorial probabilistic chromatin interactions produce transcriptional heterogeneity. *J. Cell. Sci*. 122: 345-356, 2009. (LRBGE)

Misteli T and Soutoglou E: The emerging role of nuclear architecture in DNA repair and genome maintenance. *Nature Reviews Mol. Cell Biol*. 10: 243-254, 2009. (LRBGE)

Mathas S, Kreher S, Meaburn K, Janz M, Lamprecht J, Assaf C, Anagnostopoulos I, Johrens K, Kadin M, Stein H, Schroeck E, **Misteli T**, and Doerken B: Gene deregulation and spatial genome reorganization near breakpoints prior to formation of translocations in ALCL. *Proc. Natl. Acad. Sci. USA*. In press. (LRBGE)

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

There were no submissions reported this month.

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

Dinso JB, Kim SY, Wiegand AM, Palmer SE, Gange SJ, Cranmer L, O'Shea A, Callender M, Spivak A, Brennan T, Kearney MF, Proschan MA, Mican JM, Rehm CA, Coffin JM, Mellors JW, Siliciano RF, and **Maldarelli F**: Treatment intensification does not reduce residual HIV-1 viremia in patients on highly active antiretroviral therapy. *Proc. Natl. Acad. Sci. USA*. 106(23): 9403-9408, 2009. (HIVDRP)

Retroviral Replication Laboratory - Stephen Hughes, Ph.D.

Adamson CS and **Freed EO**: Anti-HIV therapeutics: From FDA-approved drugs to hypothetical future targets. *Mol. Intervent.* 9: 70-74, 2009. (RRL)

Beilhartz GL, Wendeler M, Baichoo NS, Rausch JW, **Le Grice S**, and Gotte M: HIV-1 reverse transcriptase can simultaneously engage its DNA/RNA substrate at both the DNA polymerase and RNase active sites: Implications for RNase H inhibition. *J Mol. Biol.* 388: 462-474, 2009. (RRL)

Jern J, Russell RA, **Pathak VK**, and Coffin JM: Likely role of APOBEC3G-mediated G-to-A mutations in HIV-1 evolution and drug resistance. *PLoS Pathog.* 5: e1000367, 2009. (RRL)

Joshi A, Ablan SD, Soheilian F, Nagashima K, and **Freed EO**: Evidence that productive human immunodeficiency virus type 1 assembly can occur in an intracellular compartment. *J. Virol.* 83: 5375-5387, 2009. (RRL)

Wendeler M and **Le Grice SF**: HIV-1 reverse transcriptase. Gotte M, Cameron CE and Raney K (Eds). In: *Viral Genome Replication*, Springer Publications Company, In press. (RRL)

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

Pandhare J, Cooper SK, Donald SP, and **Phang JM**: Regulation and Function of Proline Oxidase under Nutrient Stress. *J. Cell Biochem.* 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.

Linehan M: A conversation between Darracott Vaughan and Marston Linehan. *BJU Int.* 103(3): 283-284, 2009. (UOB)

Childs R and **Srinivasan R**: Hematopoietic Stem Cell Transplantation. In: *Bethesda Handbook of Clinical Hematology*. Philadelphia: Lippincott Williams & Wilkins; In press. (UOB)

Mushinski JF, Nguyen P, Stevens LM, **Khanna C**, Lee S, Chung EJ, Lee MJ, Kim YS, **Linehan WM**, Horisberger MA, and **Trepel JB**: Inhibition of tumor cell motility by the interferon-inducible GTPase MxA. *J Biol Chem.* 18: 1-20, 2009. (UOB)

Laboratory of Cellular Oncology - Douglas Lowy, M.D.

Schlom J, Lowy D, and Schiller J: The interface of cancer and HIV/AIDS vaccines. Science Supplement. In press. (LCO)

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

Kozikowski AP, Chen Y, Subahasish T, Lewin NE, **Blumberg PM**, Zhong Z, D'Annibale MA, Wang WL, Shen Y and Langley BC : searching for disease modifiers- PKC activation and HDAC inhibition- a dual drug approach to Alzheimer's Disease that reduces A beta production while blocking oxidative stress. Chem. Med. Chem. In press. (LCBG)

Shukla A, Malik M, Cataisson C, Ho Y, Friesen T, Suh KS and **Yuspa SH:** TGF-beta signaling is regulated by Schnurri-2 dependent nuclear translocation of CLIC4 and consequent stabilization of phosphor Smad2-3. Nature Cell Biology. 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.

Fan HY, Liu Z, Shimada M, **Sterneck E, Johnson PF**, Hedrick SM, and Richards JS: ERK1/2 in Ovarian Granulosa Cells are Essential for Female Fertility. Science. In press. (LCDS)

Smink J, Begay V, Schoenmaker T, **Sterneck E**, de Vries TJ, and Leutz A: Transcription factor C/EBP beta isoform ratio regulates osteoclastogenesis through MafB. EMBO J. In press. (LCDS)

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

Aue G, Njuguna N, Tian X, Soto S, Hughes T, Vire B, Keyvanfar K, Gibellini F, Valdez J, Boss C, Samsel L, McCoy Jr JP, **Wilson WH, Pittaluga S**, and Wiestner A: Lenalidomide induced upregulation of CD80 on tumor cells correlates with T-cell activation, the rapid onset of a cytokine release syndrome and leukemic cell clearance in chronic lymphocytic leukemia. Haematologica. In press. (LP)

Eberle FC, Mani H, and **Jaffe ES**: Histopathology of Hodgkin lymphoma. The Cancer Journal. In press. (LP)

Erickson HS, Albert PS, Gillespie JW, Rodriguez-Canales J, **Linehan WM**, **Pinto PA**, Chuaqui RF, and **Emmert-Buck MR**: Quantitative RT-PCR gene expression analysis of laser microdissected tissue samples. Nature Protocols. 4(6): 902-922, 2009. (LP)

Johann D, Rodriguez-Canales J, Mukherjee S, Prieto D, Hanson J, **Emmert-Buck M**, and **Blonder J**: Approaching solid tumor heterogeneity by tissue proteomics using laser capture microdissection and biological mass spectrometry. J. Proteome Res. In press. (LP)

Mani H and **Jaffe ES**: Hodgkin lymphoma: An update on its biology with newer insights into classification. Clin. Lymphoma and Myeloma. In press. (LP)

Martiniova L, Kotys MS, Thomasson D, Schimel D, Lai EW, Bernardo M, **Merino MJ**, Powers JF, Ruzicka J, Kvetnansky R, **Choyke PL**, and Pacak K: Noninvasive monitoring of a murine model of metastatic pheochromocytoma: a comparison of contrast-enhanced microCT and nonenhanced MRI. J. Magn. Reson. Imaging. 29(3): 685-691, 2009. (LP)

Xie H, Valera VA, **Merino MJ**, Amato AM, Signoretti S, **Linehan WM**, Sukhatme VP, and Seth P: LDH-A inhibition, a therapeutic strategy for treatment of hereditary leiomyomatosis and renal cell cancer. Mol. Cancer Ther. 8(3): 626-635, 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.

Anaganti S, Hansen JK, Ha D, Hahn Y, Chertov O, **Pastan I**, and Bera TK: Non-AUG translational initiation of a short CAPC transcript generating protein isoform. Biochem. Biophys. Res. Commun. 380: 508-513, 2009. (LMB)

Sathyanarayana BK, Hahn Y, Patankar MS, **Pastan I**, and **Lee BK**: Mesothelin, stereocillin, and otoancorin are predicted to have superhelical structures with ARM-type repeats. BMC Struct. Biol. 9: 1, 2009. (LMB)

Carpenito C, Milone MC, **Hassan R**, Simonet JC, Lakhali M, Suhoski MM, Varela-Rohena A, Haines KM, Heitjan DF, Albelda SM, Carroll RG, Riley JL, **Pastan I**, and June CH: Control of large, established tumor xenografts with genetically retargeted human T cells containing CD 28 and CD137 domains. Proc. Natl. Acad. Sci. USA. 106: 3360-3365, 2009. (LMB)

Ho M and Pastan I: In vitro antibody affinity maturation targeting germline hotspots. Dimitrov AS (Ed.). In: Therapeutic Antibodies: Methods and Protocols, Vol. 525, Chapter 15, Totowa, NJ, Humana Press, 2009, pp. 293-308. (LMB)

Ho M and Pastan I: Mammalian cell display for antibody engineering. Dimitrov AS (Ed.). In: Therapeutic Antibodies: Methods and Protocols, Vol. 525, Chapter 18, Totowa, NJ, Humana Press, 2009, pp. 337-352. (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.

Nakamura AJ, Redon CE, **Bonner WM**, and Sedelnikova OA: Telomere-dependent and telomere-independent origins of endogenous DNA damage in tumor cells. Aging. 1: 212-218, 2009. (LMP)

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.

Tohno M, Ueda W, Azuma Y, Shimazua T, Katoh S, Wang JM, Aso H, Takada H, Kawaia Y, Saito T, and Kitazawa H: Molecular cloning and functional characterization of porcine nucleotide-binding oligomerization domain-2 (NOD2). *Mol Immunol.* 45: 194-203, 2008. (LMI)

Kitazawa H, Yonezawa K, Tohno M, Shimosato T, Kawai Y, Saito T, and Wang JM: Enzymatic digestion of the milk protein beta-casein releases potent chemotactic peptides(s) for monocytes and macrophages. *Int Immunopharm.* 9: 1150-1159, 2009. (LMI)

Salcedo R, Hixon JA, Stauffer JK, Brooks AD, Khan T, Linciln E, Back T, Powell D, Sayers TJ, Hurwitz AA, Kastelein R, and Wigginton JM: Immunologic and therapeutic synergy of IL-27 and IL-2 enhancement of T cell sensitization, tumor-specific CTL reactivity, and complete regression of disseminated neuroblastoma metastases in the liver and bone marrow. *J Immunol.* 182: 4328-4338, 2009. (LMI)

Oppenheim JJ and Yang D: Alarmins and Antimicrobial Immunity. *Med Mycol.* 1-8, 2009. (LMI)

Durum SK and Mazzucchelli RI: Live from the Liver: hepatocyte Il-7. *Immunity.* 30: 320-321, 2009. (LMI)

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

There were no submissions reported this month.

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

Hornyak TJ, Jiang S, Guzman EA, Scissors BN, Tuchinda C, He H, Neville JD, and Strickland FM: Mitf Dosage as a Primary Determinant of Melanocyte Survival after UV Irradiation. *Pigment Cell Melanoma Res.* In press. (DB)

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.

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

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.

There were no submissions reported this month.