

CCR MANUSCRIPT NOTIFICATION (OCTOBER 2009)

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.

Chen W, Zhu Z, Feng Y, and **Dimitrov DS**: A large human domain antibody library combining heavy and light chain CDR3 diversity. *Mol. Immunology*. In press. (CCRNP)

Kimura T, Kuwata T, Ashimine S, Yamazaki M, Yamauchi, C, Nagai K, Ikehara A, Feng Y, **Dimitrov DS**, Saito S, and Ochiai A: Targeting of bone-derived insulin-like growth factor-2 by a human neutralizing antibody suppresses the growth of prostate cancer cells in a human bone environment. *Clin. Cancer Res.* In press. (CCRNP)

Garg H, Salcedo R, **Trinchieri G**, and **Blumenthal R**: Improved nonviral cancer suicide gene therapy using surviving promoter-driver mutant Bax. *Cancer Gene Ther.* 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 - Joel Schneider, Ph.D.

Liu F, Park JE, **Lee KS**, and **Burke Jr TR**: Preparation of orthogonally protected (2S,3R)-2-amino-3-methyl-4-phosphonobutyric acid (Pmab) as a phosphatase-stable phosphothreonine mimetic and its use in the synthesis of polo-box domain-binding peptides. *Tetrahedron*. 65: 9673-9679, 2009. (LMC)

Liu F, Stephen AD, Waheed AA, **Freed EO**, Fisher RJ, and **Burke Jr TR**: Application of ring-closing metathesis macrocyclization to the development of Tsg101-binding antagonists. *Bioorganic & Medicinal Chem. Lett.* In press. (LMC)

Molecular Targets Laboratory - James McMahon, Ph.D.

There were no submissions reported this month.

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

Wang J, Zuo X, Yu P, Xu H, Starich MR, Tiede DM, **Shapiro BA**, Schwieters CD and **Wang Y-X**: A Method for Helical RNA Global Structure Determination in Solution Using Small Angle X-ray Scattering and NMR Measurements. *J. Mol. Biol.* 393(3): 717-734, 2009. (SBL)

Radiation Oncology Branch - Kevin Camphausen, M.D.

Zielinski R, Lyakhov I, Jacobs A, Chertov O, Kramer-Marek G, Francella N, Stephen A, Fisher R, **Blumenthal R**, and **Capala J**: Affitoxin-A Novel Recombinant, HER2-specific, Anticancer Agent for Targeted Therapy of HER2-positive Tumors. *J. Immunother.* In press. (ROB)

Zielinski R, Przytycki PF, Zheng J, Zhang D, Przytycka TM, and **Capala J**: The crosstalk between EGF, IGF, and Insulin cell signaling pathways--computational and experimental analysis. *BMC Syst Biol.* 3: 88, 2009. (ROB)

Alper O, **Stetler-Stevenson WG**, Harris LN, Leitner WW, Ozdemirli M, Hartmann D, Raffeld M, Abu-Asab M, Byers S, Zhuang Z, Oldfield EH, Tong Y, Bergmann-Leitner E, Criss WE, Nagasaki K, Mok SC, Cramer DW, Karaveli FS, Goldbach-Mansky R, Leo P, Stromberg K, and Weil RJ: Novel anti-filamin-A antibody detects a secreted variant of filamin-A in plasma from patients with breast carcinoma and high-grade astrocytoma. *Cancer Sci.* 100(9): 1748-1756, 2009. (ROB)

Herbertson RA, Tebbutt NC, Lee FT, Macfarlane DJ, Chappell B, Micallef N, Lee ST, Saunder T, Hopkins W, Smyth FE, Wyld DK, Bellen J, Sonnichsen DS, **Brechbiel MW**, Murone C, and Scott AM: Phase I Biodistribution and Pharmacokinetic Study of Lewis Y-Targeting Immunoconjugate CMD-193 in Patients with Advanced Epithelial Cancers. *Clin Cancer Res.* In press. (ROB)

Zach L, Stall B, Ning H, Ondos J, Arora B, Uma S, Miller RW, **Citrin D**, and **Camphausen K**: A dosimetric comparison of four treatment planning methods for high grade glioma. *Radiat Oncol.* 4(1): 45, 2009. (ROB)

Molecular Imaging Program - Peter Choyke, M.D.

Ogawa M, Kosaka N, **Choyke PL**, and Kobayashi H: H-type dimer formation of fluorophores: a mechanism for activatable, in vivo optical molecular imaging. *ACS Chem Biol.* 4(7): 535-546, 2009. (MIP)

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

Lombardi VC, **Ruscetti FW**, Das Gupta J, Pfof MA, Hagen KS, Peterson DL, **Ruscetti SK**, Bagni RK, Petrow-Sadowski C, Gold B, **Dean M**, Silverman RH, and Mikovits JA: Detection of an Infectious Retrovirus, XMRV, in Blood Cells of Patients with Chronic Fatigue Syndrome. *Science*. 326: 585-589, 2009. (LCP)

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

There were no submissions reported this month.

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

Zhu W, Zhu DS, Madan RA, **Gulley JL**, **Figg WD**, and **Dahut WL**: Treatment of CRPC: Updates on therapeutics targeting androgen receptor signaling pathway. *Am J Therapeutics*. 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.

Ando H, Ichihashi M, **Hearing VJ**: Role of the ubiquitin proteasome system in regulating skin pigmentation. *Int. J. Mol. Sci.* In press. (LCB)

Anishkin A, Milac A, and **Guy HR**: Symmetry-Restrained Molecular Dynamics Simulations Improve Homology Models of Potassium Channels. *Proteins: Structure, Function, and Bioinformatics*. In press. (LCB)

Hoashi T, Tamaki K, and **Hearing VJ**: The secreted form of Pmel17/gp100 is released by ectodomain shedding. *FASEB J.* In press. (LCB)

Experimental Transplantation and Immunology Branch - Ronald Gress, M.D.

There were no submissions reported this month.

Laboratory of Receptor Biology and Gene Expression - Gordon Hager, Ph.D.

There were no submissions reported this month.

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

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.

Shao W, Kearney M, **Maldarelli F**, Mellors JW, Stephens RM, **Lifson JD**, **KewalRamani VN**, Ambrose Z, Coffin JM, and Palmer SE: RT-SHIV subpopulation dynamics in infected macaques during anti-HIV therapy. *Retrovirology*. 6: 101, 2009. (HVIB)

Morse C and **Maldarelli F**: Acquired immunodeficiency syndrome (AIDS). Strober W and **Gottesman S** (Eds.). In: *Immunology: Clinical Case Studies and Disease Pathophysiology*, Wiley-Blackwell, In press. (HVIB)

Retroviral Replication Laboratory - Stephen Hughes, Ph.D.

Chung NPY, Breun SK, Bashirova AA, Baumann JG, Martin TD, Karamchandani JM, Rausch JW, **Le Grice SFJ**, Wu L, **Carrington M**, and **KewalRamani VN**: HIV-1 transmission by DC-SIGN is regulated by determinants in the carbohydrate recognition domain that are absent in L-SIGN. *J. Biol. Chem.* 285: 2100-2112, 2010. (RRL)

Fabris D, Marino D, and **Le Grice SFJ**: Re-visiting polypurine tract selection in retroviruses and long terminal repeat transposons: Conformational dynamics of enzyme:substrate interactions. *Viruses*. In press. (RRL)

Krishnan L, Matreyek K, Oztop I, Lee K, Tipper CH, Li X, Dar MJ, **KewalRamani VN**, and Engelman A: The requirement for cellular transportin-3 (TNPO3/TRN-SR2) during infection maps to human immunodeficiency virus type 1 capsid and not integrase. *J. Virol.* 84: 397-406, 2010. (RRL)

Smith JL, Bu W, Burdick RC, and **Pathak VK**: Multiple ways of targeting APOBEC3/VIF interactions for anti-HIV drug development. *Trends in Pharmaceutical Sci.* 30: 638-646, 2009. (RRL)

Adamson CS and **Freed EO**: Novel approaches to inhibiting HIV-1 replication. *Antivir Res.* 85: 119-141, 2010. (RRL)

Boyer PL, Vu BC, Ambrose Z, Julias JG, Warnecke S, Liao C, Meier C, Marquez VE, and **Hughes SH**: The nucleoside analogue D-carba T blocks HIV-1 reverse transcription. *J Med Chem.* 52: 5356-5364, 2009. (RRL)

Chen J, Nikolaitchik O, Singh J, Wright A, Bencsics CE, Coffin JM, Ni N, Lockett S, **Pathak VK** and **Hu WS**: High efficiency of HIV-1 genomic RNA packaging and heterozygote formation revealed by single virion analysis. *Proc Natl Acad Sci USA*. 106: 13535-13540, 2009. (RRL)

Crist RM, Datta SAK, Stephen AG, Soheilian F, Mirro J, Fisher RJ, Nagashima K, and **Rein A**: Assembly properties of human immunodeficiency virus type 1 Gag-leucine zipper chimeras: Implications for retrovirus assembly. *J Virol*. 83: 2216-2225, 2009. (RRL)

Das K, Bandwar RP, White KL, Feng JY, Sarafianos SG, Tuske S, Tu X, Clark Jr AD, Boyer PL, Hou X, Gaffney BL, Jones RA, Miller MD, **Hughes SH**, and Arnold E: Structural basis for the role of the K65R mutation in HIV-1 reverse transcriptase polymerization, excision antagonism, and tenofovir resistance. *J Biol Chem*. 284: 25092-35100, 2009. (RRL)

Dunn LL, McWilliams MJ, Das K, Arnold E, and **Hughes SH**: Mutations in the thumb allow human immunodeficiency virus type 1 reverse transcriptase to be cleaved by protease in virions. *J. Virol*. 83: 12336-12344, 2009. (RRL)

Götte M, Rausch JW, Marchand B, Sarafianos S, and **Le Grice SFJ**: Reverse transcriptase in motion: Conformational dynamics of enzyme-substrate interactions. *Biochemica et Biophysica Acta - Proteins and Proteomics*. In press. (RRL)

Joshi A, Nagashima K, and **Freed EO**: Defects in cellular sorting and retroviral assembly induced by GGA overexpression. *BMC Cell Biol*. 10: 72, 2009. (RRL)

Legiewicz M, Rausch JW, and **Le Grice SFJ**: SHAPE technology: A modern framework for RNA structure derivation. *Eur. Pharm. Rev*. 3: 13-18, 2009. (RRL)

Luttge BG and **Freed EO**: FIV Gag: Virus assembly and host-cell interactions. *Vet Immunol Immunopath*. 134: 3-13, 2010. (RRL)

Moore MD, Nikolaitchik OA, Chen J, Hammarskjöld ML, Rekosh D, and **Hu WS**: Probing the HIV-1 genomic RNA trafficking pathway and dimerization by genetic recombination and single virion analyses. *PLoS Pathog*. 5: e1000627, 2009. (RRL)

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

Kumar V, Hong SY, Maciag AE, Saavedra JE, Adamson DH, Prud'homme RK, **Keefer LK**, and Chakrapani H: A nanoparticle-based formulation of PABA/NO, and anti-cancer lead compound. *Mol. Ther*. In press. (LCC)

Faupel-Badger JM, Fuhrman BJ, Xu X, Falk RT, **Keefer LK**, Veenstra TD, Bradlow HL, Hoover RN, and Ziegler RG: Comparison of liquid chromatography-mass spectrometry measurement of urinary estrogens and estrogen metabolites with enzyme-linked immunosorbent assay and radioimmunoassay methods. CEBP. In press. (LCC)

Shiao Y-H, Lupascu ST, Gu YD, Kasprzak W, Hwang CJ, Fields JR, Leighty RM, Quiñones O, **Shapiro BA**, Alvord WG, and **Anderson LM**: An intergenic non-coding rRNA correlated with expression of the *rRNA* and frequency of an *rRNA* single nucleotide polymorphism in lung cancer cells. PLoS One. 4: e7505, 2009. (LCC)

Cell and Cancer Biology Branch - Kathleen Kelly, Ph.D.

There were no submissions reported this month.

Urologic Oncology Branch - W. Marston Linehan, M.D.

Kawabe M, Mandic M, Taylor JL, Vasquez CA, Wesa AK, **Neckers L**, Giodini A, Cresswell P, and Storkus WJ: HSP90 Inhibitor 17-DMAG Enhances EphA2+ Tumor Cell Recognition by Specific CD8+ T Cells. Cancer Cell. 69: 6995-7003, 2009. (UOB)

Wang S, Pashtan I, Tsutsumi S, Xu W, and **Neckers L**: Cancer Cells Harboring MET Gene Amplification Activate Alternative Signaling Pathways to Escape MET Inhibition but Remain Sensitive to Hsp90 Inhibitors. Cell Cycle. 8(13): 2050-2056, 2009. (UOB)

Srinivasan R and **Linehan WM**: A Phase II Study of Two Dosing Regimens of GSK 1363089 (GSK089), a Dual MET/VEGFR2 Inhibitor, in Patients (Pts) With Papillary Renal Carcinoma (PRC). J. Clinical Oncol. In press. (UOB)

Tsutsumi S, Mollapour M, Graf C, Chung-Tien L, Scroggins BT, Xu W, Haslerova L, Hessling M, Konstantinova AA, Panaretou B, Buchner J, Mayer MP, Prodromou C, and **Neckers L**: Functional Consequences of Weakened Hydrophobic Contacts in the Hsp90 N-Domain Are Reversed by Charged-Linker Truncation. Nat. Struct. Mol. Biol. In press. (UOB)

Palapattu GS, Singer EA, and Messing EM: Controversies Surrounding Lymph Node Dissection for Prostate Cancer. Urology Clinics of North American. In press. (UOB; PI: **Linehan WM**)

Barluenga S, Fontaine JG, Wang C, Aouadi K, Chen R, Beebe K, **Neckers L**, and Winssinger N: Inhibition of HSP90 With Pochoximes: SAR and Structure-Based Insights. Chembiochem. In press. (UOB)

Hsieh TC, Jarrett TW, and **Pinto PA**: Current Status of Nephron-Sparing Robotic Partial Nephrectomy. *Curr Opin Urol*. In press. (UOB)

Sorbellini M and **Bratslavsky G**: Editorial: Prognostic Factors Influencing Long Term Survival of Patients Undergoing Nephron Sparing Surgery for Non-Metastatic Renal Cell Carcinoma (RCC) With Imperative Indications. *Annals of Surgical Oncol*. In press. (UOB)

Ehrlich E, Wang T, Luo K, Xiao Z, Niewiadomska AM, Martinez T, Xu W, **Neckers L**, and Yu XF: Regulation of Hsp90 Client Proteins by a Cullin5-RING E3 Ubiquitin Ligase. *Proc Natl Acad Sci U S A*. In press. (UOB)

Linehan WM, Rubin JS and Bottaro DP: VHL loss of function and its impact on oncogenic signaling networks in clear cell renal cell carcinoma. *Int. J. Biochem. Cell Biol*. 41: 753-756, 2009. (UOB)

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

There were no submissions reported this month.

Pediatric Oncology Branch - Crystall Mackall, M.D.

There were no submissions reported this month.

Genetics Branch - Paul Meltzer, M.D., Ph.D.

There were no submissions reported this month.

Lab of Cancer Biology & Genetics - Glenn Merlino, PhD & Stuart Yuspa, MD

There were no submissions reported this month.

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.

Choi WW, Weisenburger DD, Greiner TC, Piris MA, Banham AH, Delabie J, Braziel RM, Gene H, Iqbal J, Lenz G, Vose JM, Hans CP, Fu K, Smith LM, Li M, Liu Z, Gascoyne RD, Rosenwald A, Ott G, Rimsza LM, Campo E, **Jaffe ES**, Jaye DL, **Staudt LM**, and Chan WC: A new immunostain algorithm classifies diffuse large B-cell lymphoma into molecular subtypes with high accuracy. *Clin. Cancer Res.* 15(17): 5494-5502, 2009. (LP)

Gradowski JF, **Jaffe ES**, Warnke RA, Pittaluga S, Surti U, Gole LA, and Swerdlow SH: Follicular lymphomas with plasmacytic differentiation include two subtypes. *Mod. Pathol.* In press. (LP)

Jegalian AG, Facchetti F, and **Jaffe ES**: Plasmacytoid dendritic cells: physiologic roles and pathologic states. *Adv. Anat. Pathol.* 16(6): 392-404, 2009. (LP)

Koch R, **Jaffe ES**, Mensing C, Zeis M, Schmitz N, and Sander CA: Cutaneous gamma/delta T-cell lymphoma. *J. Dtsch. Dermatol. Ges.* In press. (LP)

Lamant L, Pileri S, Sabattini E, Brugières L, **Jaffe ES**, and Delsol G: Cutaneous presentation of ALK-positive anaplastic large cell lymphoma following insect bites: Evidence for an association in 5 cases. *Haematologica.* In press. (LP)

Leich E, Salaverria I, Bea S, Zettl A, Wright G, Moreno V, Gascoyne RD, Chan WC, Braziel RM, Rimsza LM, Weisenburger DD, Delabie J, **Jaffe ES**, Lister A, Fitzgibbon J, **Staudt LM**, Hartmann EM, Mueller-Hermelink HK, Campo E, Ott G, and Rosenwald A: Follicular lymphomas with and without translocation t(14;18) differ in gene expression profiles and genetic alterations. *Blood.* 114: 826-834, 2009. (LP)

Maxhimer JB, Soto-Pantoja DR, Ridnour LA, Shih HB, DeGraff WG, **Tsokos M**, **Wink DA**, Isenberg JS, and **Roberts DD**: Radioprotection in normal tissue and delayed tumor growth by blockade of CD47 signaling. *Sci. Transl. Med.* In press. (LP)

Ouansafi I, Bell S, and **Jaffe ES**: Adrenal Hodgkin lymphoma. *Br. J. Haematol.* In press. (LP)

Ritchie D, Piekarcz RL, Blombery P, Karai LJ, **Pittaluga S**, **Jaffe ES**, **Raffeld M**, **Janik JE**, Prince HM, and **Bates SE**: Reactivation of DNA viruses in association with histone deacetylase inhibitor (HDI) therapy: a case series report. *Haematologica.* In press. (LP)

Shah V, Pohida T, Turkbey B, Mani H, **Merino MJ**, **Pinto PA**, **Choyke P**, and Bernardo M: A method for correlating *in vivo* prostate magnetic resonance imaging and histopathology using individualized magnetic resonance based molds. Review of Scientific Instruments. 80: 104301, 2009. (LP)

Switzer CH, Ridnour LA, Spartorre A, Del Soldato P, Vitek M, Moody TW, **Roberts DD**, and **Wink DA**: Dithiolethione compounds inhibit Akt signaling in human breast and lung cancer cells by increasing PP2A activity. Oncogene. In press. (LP)

Wilkinson ST, Fernandez DR, Murphy SP, Braziel RM, Campo E, Chan WC, Delabie J, Gascoyne RD, **Staudt LM**, **Jaffe ES**, Rosenwald A, and Rimsza LM: Decreased major histocompatibility complex class II expression in diffuse large B-cell lymphoma does not correlate with CpG methylation of class II transactivator promoters III and IV. Leuk. Lymphoma. 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. & Susan Gottesman, Ph.D.

There were no submissions reported this month.

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

Yuasa T, Kondo N, Yasuhara R, Shimono K, **Mackem S**, Pacifici M, Iwamoto M and Enomoto-Iwamoto M: Transient activation of Wnt/beta-catenin signaling induces abnormal growth plate closure and articular cartilage thickening in postnatal mice. Am. J. Pathol. In press. (CDBL)

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

Cinelli MA, Cordero B, Dexheimer TS, **Pommier Y**, and Cushman M: Synthesis and biological evaluation of 14-(aminoalkyl-aminomethyl)aromathecins as topoisomerase I inhibitors: investigating the hypothesis of shared structure-activity relationships. Bioorg. Med. Chem. 17: 7145-7155, 2009. (LMP)

Palmieri D, Lockman PR, Thomas FC, Hua E, Herring J, Hargrave E, Johnson M, Flores N, Qian Y, Vega-Valle E, Taskar KS, Rudraraju V, Mittapalli RK, Gaasch JA, Bohn KA, Thorsheim HR, Liewehr DJ, Davis S, Reilly JF, Walker R, Bronder JL, Feigenbaum L,

Steinberg SM, **Camphausen K**, **Meltzer PS**, Richon VM, Smith QR, and **Steeg PS**: Vorinostat inhibits brain metastatic colonization in a model of triple-negative breast cancer and induces DNA double-strand breaks. *Clin. Cancer Res.* 19: 6148-6157, 2009. (LMP)

Tuduri S, Crabbe L, Conti C, Tourriere H, Holtgreve-Grez H, Jauch A, Pantesco V, De Vos J, Thomas A, Theillet C, **Pommier Y**, Tazi J, Coquelle A, and Pasero P: Topoisomerase I suppresses genomic instability by preventing interference between replication and transcription. *Nat. Cell Biol.* In press. (LMP)

Baranello L, Bertozzi D, Fogli MV, **Pommier Y**, and Capranico G: DNA topoisomerase I inhibition by camptothecin induces escape of RNA polymerase II from promoter-proximal pause sites, antisense transcription and histone acetylation at the 5 human HIF-1{alpha} gene locus. *Nucl. Acids. Res.* In press. (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.

Barr VA, Bernot KM, Shaffer MH, Bukhardt JK, **Samelson LE**: Formation of STIM and Orai complexes: puncta and distal caps. *Immunological Reviews.* 231: 148-159, 2009. (LCMB)

Miyaji M, Kortum RL, Surana R, Li W, Woolard KD, Simpson RM, **Samelson LE** and Sommers CL: Genetic evidence for the role of Erk activation in a lymphoproliferative disease in mice. *PNAS.* 106: 14502-14507, 2009. (LCMB)

Kortum RL and **Samelson LE**: Priming the pump: adhesion enhances T cell antigen receptor-induced signaling. *Immunity.* 30: 3-5, 2009. (LCMB)

Krensky AM and **Clayberger C**: Biology and clinical relevance of granulysin. *Tissue Antigens.* 73: 193-198, 2009. (LCMB)

Lipkowitz S, Brinton L, **Niederhuber J**, Bland K, and Copeland E (Eds.): Interval Breast Cancer: clinical, epidemiological, and biological features. In: *The Breast.* In Press. (LCMB)

Stone B and **Lipkowitz S**: Pumpfrage redivivus. *JAMA.* 302: 626, 2009. (LCMB)

Kriebel P and **Parent CA**: Group migration and signal relay in Dictyostelium. *Methods in Mol. Biol.* In press. (LCMB)

Bagorda A, Das S, Rericha E, Chen D, Davidson J and **Parent CA**: Real-time measurements of cAMP production in live Dictyostelium cells. *J Cell Sci.* In press. (LCMB)

Garcia GL, Rericha EC, Heger CD, Goldsmith PK and **Parent CA**: The Group Migration of Dictyostelium Cells Is Regulated by Extracellular Chemoattractant Degradation. *Mol. Biol. Cell.* 20: 3295-3304, 2009. (LCMB)

Campa F, Yoon HY, Ha VL, Szentpetery Z, Balla T and **Randazzo PA**: A PH domain in the Arf GAP ARAP1 binds PtdIns(3,4,5)P₃ and regulates Arf GAP activity independently of recruitment to the plasma membranes. *J. Biol. Chem.* In press. (LCMB)

Luo R, Ha VL, Hayashi R and **Randazzo PA**: Arf GAP2 is positively regulated by coatamer and cargo. *Cell. Signal.* 21: 1169-1179, 2009. (LCMB)

Jian X, Brown P, Schuck P, Gruschus JM, Balbo A, Hinshaw JE and **Randazzo PA**: Autoinhibition of Arf GTPase-activating protein activity by the BAR domain in ASAP1. *J. Biol. Chem.* 284: 1652-1663, 2009. (LCMB)

Mazelova J, Astuto-Gribble L, Inoue H, Tam BM, Schonteich E, Prekeris R, Moritz OL, **Randazzo PA**, and Deretic D: Ciliary targeting motif VxPx directs assembly of a trafficking module through Arf4. *EMBO J.* 28: 183-192, 2009. (LCMB)

Gruschus JM, Chen PW, Luo R and **Randazzo PA**: Journey to the ends of the Arf. *Structure.* 17: 2-4, 2009. (LCMB)

Liljegren SJ, Leslie ME, Darnielle L, Lewis MW, Taylor SM, Luo R, Geldner N, Chory J, **Randazzo PA**, Yanofsky MF, and Ecker JR: Regulation of membrane trafficking and organ separation by the nevershed Arf-GAP protein. *Development.* 136: 1909-1918, 2009. (LCMB)

Beauchamp E, Bulut G, Abaan O, Chen K, Merchant A, Matsui W, Endo Y, **Rubin JS**, Toretsky J and Uren A: GLI1 is a direct transcriptional target of EWS-FLI1 oncoprotein. *J. Biol. Chem.* 284: 9074-9082, 2009. (LCMB)

Li SJ, Yen TY, Endo Y, Klauzinska M, Baljinnyam B, Macher B, **Callahan R** and **Rubin JS**: Loss-of-function point mutations and two-furin domain derivatives provide insights about R-spondin2 structure and function. *Cell. Signal.* 21: 916-925, 2009. (LCMB)

Kwon HS, Lee HS, Ji Y, **Rubin JS** and Tomarev SI: Myocilin is a modulator of Wnt signaling. *Mol. Cell. Biol.* 29: 2139-2154, 2009. (LCMB)

Millet C, Yamashita M, Heller M, Yu L, Veenstra TD, and Zhang YE: A negative feedback control of TGF-beta signaling by GSK3-mediated Smad3 linker phosphorylation at Ser204. *J. Biol. Chem.* 284: 19808-19816, 2009. (LCMB)

Zhang YE: Non-Smad pathways in TGF-beta signaling. *Cell Res.* 19: 128-139, 2009. (LCMB)

Jin C, Yang YA, Anver MR, Morris N, Wang X and **Zhang YE**: Smad ubiquitination regulatory factor 2 promotes metastasis of breast cancer cells by enhancing migration and invasiveness. *Cancer Res.* 69: 735-740, 2009. (LCMB)

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

Ferrara TA, **Hodge JW**, and **Gulley JL**: Combining radiation and immunotherapy for synergistic antitumor therapy. *Curr Op Molec Therapeutics.* 11: 37-42, 2009. (LTIB)

Gulley JL, Arlen PM, Madan RA, Tsang K-Y, Pazdur MP, Skarupa L, Jones JL, Poole DJ, Higgins JP, **Hodge JW**, Cereda V, Vergati M, Steinberg SM, Halabi S, Jones E, Chen C, Parnes H, Wright JJ, **Dahut WL**, and **Schlom J**: Immunologic and prognostic factors associated with overall survival employing a poxviral-based PSA vaccine in metastatic castrate-resistant prostate cancer. *Cancer Immunol Immunother.* 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.

Shafer-Weaver KA, Anderson MJ, Malyguine A, Greeneberg NM, and **Hurwitz AA**: Cutting Edge: Tumor-Specific CD8⁺ T Cells Infiltrating Prostatic Tumors are Induced to Become Suppressor Cells. *J Immunol.* In press. (LMI)

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

Goldszmid RS, Hasan UA, and **Trinchieri G**: Double stranded RNA tricks melanoma cells into committing suicide. *Pigment Cell Melanoma Res.* 22: 705-706, 2009. (LEI)

McVicar DW and **Trinchieri G**: CSF-1R, DAP12 and beta-ctenin: a ménage à trios. *Nat Immunol.* 10: 681-683, 2009. (LEI)

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

There were no submissions reported this month.

Mouse Cancer Genetics Program - Terry Van Dyke, Ph.D.

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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.

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Macromolecular Crystallography Laboratory - Alexander Wlodawer, Ph.D.

There were no submissions reported this month.

Laboratory of Biochemistry and Molecular Biology - Carl Wu, Ph.D.

Oh SD, Jessop L, Lao JP, Allers T, **Lichten M**, and Hunter N: Stabilization and electrophoretic analysis of meiotic recombination intermediates in *Saccharomyces cerevisiae*. *Methods Mol Biol.* 557: 209-234, 2009. (LBMB)

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Buhler C, Shroff R, and **Lichten M**: Genome-wide mapping of meiotic DNA double-strand breaks in *Saccharomyces cerevisiae*. *Methods Mol Biol.* 557: 143-164, 2009. (LBMB)

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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.