

CCR MANUSCRIPT NOTIFICATION (JULY 2012)

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.

Dimitrov DS: Therapeutic proteins. *Methods Mol. Biol.* 899: 1-26, 2012. (CCRNP)

Chen W and **Dimitrov DS:** Monoclonal antibody-based candidate therapeutics against HIV-1. *AIDS Res. Hum. Retroviruses.* 28(5): 425-434, 2012. (CCRNP)

Ramakrishnan B and **Qasba PK:** In vitro folding of beta-1,4Galactosyltransferase and polypeptide-alpha-N-acetylgalactosaminyltransferase from the inclusion bodies. *Methods in Molecular Biology – Glycosyltransferases: Methods and Protocols.* Springer Science, Humana Press. In press. (CCRNP)

Ashkenazi A, Viard M, Unger L, **Blumenthal R,** and Shai Y: Sphingopeptides: dihydrosphingosine-based fusion inhibitors against wild-type and Fuzeon-resistant HIV-1. *FASEB J.* In press. (CCRNP)

Zhong L, Wang J, Wen D, and **Shapiro BA:** Pre-miRNA Classification via Combinatorial Feature Mining and Boosting. 2012 IEEE International Conference on Bioinformatics and Biomedicine. In press. (CCRNP)

Feng Y and **Dimitrov DS:** Antibody-based therapeutics against components of the IGF system. *Oncolimmunology.* In press. (CCRNP)

Gong R, Wang Y, Ying T, and **Dimitrov DS:** Bispecific Engineered Antibody Domains that Interact Noncompetitively with an HIV-1 Neutralizing Epitope and FcRn. *PLoS One.* In press. (CCRNP)

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

There were no submissions reported this month.

Radiation Oncology Branch - Kevin Camphausen, M.D.

Ko C, Kaushal A, Hammoud DA, Steffen-Smith EA, Bent R, **Citrin D, Camphausen K, and Warren KE**: Role of early postradiation magnetic resonance imaging scans in children with diffuse intrinsic pontine glioma. *Int J Radiat Oncol Biol Phys.* 83(4): 1252-1256, 2012. (ROB)

Song SE, Cho NB, Iordachita II, Guion P, Fichtinger G, Kaushal A, **Camphausen K, and Whitcomb LL**: Biopsy Needle Artifact Localization in MRI-Guided Robotic Transrectal Prostate Intervention. *IEEE Trans Biomed Eng.* 59(7): 1902-1911, 2012. (ROB)

John-Aryankalayil M, Palayoor ST, Makinde AY, Cerna D, Simone II CB, Falduto MT, Magnuson SR, and **Coleman CN**: Fractionated Radiation Alters Oncomir and Tumor Suppressor miRNAs in Human Prostate Cancer Cells. *Radiat Res.* In press. (ROB)

Bekelman JE, Deye JA, Vikram B, Bentzen SM, Bruner D, Curran Jr WJ, Dignam J, Efstathiou JA, FitzGerald TJ, Hurkmans C, Ibbott GS, Lee JJ, Merchant TE, Michalski J, Palta JR, Simon R, Ten Haken RK, Timmerman R, Tunis S, **Coleman CN, and Purdy J**: Redesigning radiotherapy quality assurance: opportunities to develop an efficient, evidence-based system to support clinical trials--report of the National Cancer Institute Work Group on Radiotherapy Quality Assurance. *Int J Radiat Oncol Biol Phys.* 83(3): 782-790, 2012. (ROB)

Guedez L, Jensen-Taubman S, Bourboulia D, Kwityn CJ, Wei B, Caterina J, and **Stetler-Stevenson WG**: TIMP-2 Targets Tumor-associated Myeloid Suppressor Cells With Effects in Cancer Immune Dysfunction and Angiogenesis. *J Immunother.* 35(6): 502-512, 2012. (ROB)

Molecular Imaging Program - Peter Choyke, M.D.

Nakajima T, Sano K, Mitsunaga M, **Choyke PL, and Kobayashi H**: Real-time monitoring of in vivo acute necrotic cancer cell death induced by near infrared photoimmunotherapy using fluorescence lifetime imaging. *Cancer Res.* In press. (MIP)

Vinita AM, Sano K, Yu Z, Nakajima T, **Choyke PL, Ptaszek M, and Kobayashi H**: Galactosyl Human Serum Albumin-NMP1 Conjugate: A Near Infrared (NIR)-Activatable Fluorescence Imaging Agent to Detect Peritoneal Ovarian Cancer Metastases. *Bioconjug Chem.* In press. (MIP)

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

Carlson BA, Yoo MH, Tobe R, Mueller C, Naranjo-Suarez S, Hoffmann VJ, Gladyshev VN, and **Hatfield DL**: Thioredoxin reductase 1 protects against chemically induced hepatocarcinogenesis via control of cellular redox homeostasis. *Carcinogenesis.* In press. (LCP)

Mentor-Marcel RA, Bobe G, Sardo C, Wang LS, Kuo CT, Stoner G, and **Colburn NH**: Plasma cytokines as potential response indicators to dietary freeze-dried black raspberries in colorectal cancer patients. *Nutr. Cancer*. In press. (LCP)

Narasimhan M, Rathinam M, Riar A, Patel D, Mummidi S, Yang HS, **Colburn NH**, Henderson GI, and Mahimainathan L: Programmed cell death 4 (PDCD4): A novel player in ethanol-mediated suppression of protein translation in primary cortical neurons and developing cerebral cortex. *Alcoholism, Clinical and Exp. Res.* 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.

Zhang M, Mathur A, Zhang Y, Xi S, Atay S, Hong JA, Datrice N, Upham T, Kemp CD, Ripley RT, Wiegand G, Avital I, Fetsch P, Mani H, Zlott D, Robey R, **Bates SE**, Li X, Rao M, and Schrupp DS: Mithramycin Represses Basal and Cigarette Smoke-Induced Expression of ABCG2 and Inhibits Stem Cell Signaling in Lung and Esophageal Cancer Cells. *Cancer Res.* In press. (MOB)

Khozin S, Roth MJ, Rajan A, Smith K, Thomas A, Berman A, and **Giaccone G**: Hepatoid carcinoma of the lung with anaplastic lymphoma kinase gene rearrangement. *J. Thoracic Oncol.* In press. (MOB)

Heinemann V, Vehling-Kaiser U, Waldschmidt D, Kettner E, Märten A, Winkelmann C, Klein S, Kojouharoff G, Gauler TC, Fischer von Weikersthal L, Clemens MR, Geissler M, **Greten TF**, Hegewisch-Becker S, Rubanov O, Baake G, Höhler T, Ko YD, Jung A, Neugebauer S, and Boeck S: Gemcitabine plus erlotinib followed by capecitabine versus capecitabine plus erlotinib followed by gemcitabine in advanced pancreatic cancer: final results of a randomised phase 3 trial of the 'Arbeitsgemeinschaft Internistische Onkologie' (AIO-PK0104). *Gut.* In press. (MOB)

Laboratory of Metabolism - Frank Gonzalez, Ph.D.

Murata M, Noda K, Fukuhara J, Kanda A, Kase S, Saito W, Ozawa Y, Mochizuki S, **Kimura S**, Mashima Y, Okada Y, and Ishida S: Soluble vascular adhesion protein-1 accumulates in proliferative diabetic retinopathy. *Invest. Ophthalmol. Vis. Sci.* 53: 4055-4062, 2012. (LM)

Guha A, Vasconcelos M, Cai Y, Yoneda M, Hinds A, Qian J, Li G, Dickel L, Johnson J, **Kimura S**, Guo J, McMahon J, McMahon A, and Cardoso WV: Neuroepithelial body microenvironment is a niche for a distinct subset of Clara-like precursors in the developing airways. *Proc. Natl. Acad. Sci. USA.* 109(31): 12592-12597, 2012. (LM)

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

Derrien B, Majeran W, Effantin G, Ebenezer J, Friso G, van Wijk KJ, Steven AC, **Maurizi MR**, and Vallon O: The purification of the Chlamydomonas reinhardtii chloroplast ClpP complex: additional subunits and structural features. Plant Mol Biol. In press. (LCB)

Padmanabhan R, Chen KG, Gillet J-P, Handley M, Mallon BS, Hamilton RS, Park K, Varma S, Mehaffey MG, Robey PG, McKay RDG, and **Gottesman MM**: Regulation and Expression of the ATP-binding Cassette (ABC) Transporter ABCG2 in Human Embryonic Stem Cells. Stem Cells. In press. (LCB)

Tran EEH, Borgnia MJ, Kuybeda O, Shauder DM, Bartesaghi A, Frank GA, Sapiro G, Milne JLS, and **Subramaniam S**: Structural mechanism of trimeric HIV-1 envelope glycoprotein activation. PLoS Pathog. 8: e1002797, 2012. (LCB)

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

There were no submissions reported this month.

Laboratory of Biochemistry and Molecular Biology – Shiv Grewal, Ph.D.

There were no submissions reported this month.

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

Kovalchuk AL, Ansarah-Sobrinho C, Hakim O, Resch W, Tolarová H, du Bois W, Yamane A, Takizawa M, Klein I, **Hager GL**, Morse III HC, **Potter M**, Nussenzweig MC, and Casellas R: A mouse model of endemic Burkitt translocations reveals the long-range boundaries of Ig-mediated oncogene deregulation. Proc. Natl. Acad. Sci. USA. 109: 10972-10977, 2012. (LRBGE)

Romero OA, Setien F, John S, Gimenez-Xavier P, Gomez-Lopez G, Pisano D, Condom E, Villanueva A, **Hager GL**, and Sanchez-Cespedes M: The tumor suppressor and chromatin remodeling factor Brg1 antagonizes myc activity and promotes cell differentiation in human cancer. EMBO Mol Med. 4: 603-616, 2012. (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.

Archin NM, Liberty AL, Kashuba AD, Choudhary SK, Kuruc JD, Crooks AM, Parker DC, Anderson EM, **Kearney MF**, Strain MC, Richman DD, Hudgens MG, Bosch RJ, Coffin JM, Eron JJ, Hazuda DJ, and Margolis DM: Administration of vorinostat disrupts HIV-1 latency in patients on antiretroviral therapy. *Nature*. In press. (HVIB)

Archin NM, Vaidya NK, Kuruc JD, Liberty AL, Wiegand A, **Kearney MF**, Cohen MS, Coffin JM, Bosch RJ, Gay CL, Eron JJ, Margolis DM, and Perelson AS: Immediate antiviral therapy appears to restrict resting CD4+ cell HIV-1 infection without accelerating the decay of latent infection. *Proc. Natl. Acad. Sci. USA*. 109: 9523-9528, 2012. (HVIB)

Retroviral Replication Laboratory - Stephen Hughes, Ph.D.

Delviks-Frankenberry K, Cingoz O, Coffin JM, and **Pathak VK**: Recombinant origin, contamination, and de-discovery of XMRV. *Curr. Opin. Virol*. In press. (RRL)

Le Grice SFJ: Human immunodeficiency virus reverse transcriptase: 25 years of research, drug discovery, and promise. *J. Biol. Chem*. In press. (RRL)

Matreyek KA, Oztop I, **Freed EO**, and Engelman A: Viral latency and potential eradication of HIV-1. *Expert Review of Anti-Infective Therapy*. In press. (RRL)

Nair G, Dash C, **Le Grice SFJ**, and DeStefano JJ: Viral reverse transcriptases show selective high affinity binding to DNA-DNA primer-templates that resemble the polypurine tract. *PLoS ONE*. In press. (RRL)

Sanchez-Martinez S, Aloia AL, Harvin D, Mirro J, Gorelick RJ, Jern P, Coffin JM, and **Rein A**: Studies on the restriction of murine leukemia viruses by mouse APOBEC3. *PLoS ONE*. 7(5): e38190, 2012. (RRL)

Endocrine Oncology Branch – Electron Kebebew, M.D.

Nilubol N, Weinstein L, Simonds WF, Jensen RT, Phan GQ, Hughes MS, Libutti SK, Marx S, and **Kebebew E**: Preoperative localizing studies for initial parathyroidectomy in MEN1 syndrome: is there any benefit? *World J Surg*. 36(6): 1368-1374, 2012. (EOB)

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.

Li Q, Haigis KM, McDaniel A, Harding-Theobald E, Kogan SC, Akagi K, Wong JC, Braun BS, **Wolff L**, Jacks T, and Shannon K: Hematopoiesis and leukemogenesis in mice expressing oncogenic NrasG12D from the endogenous locus. *Blood*. 117(6): 2022-2032, 2011. (LCO)

Fares J, **Wolff L**, and Bies J: The p15INK4B protein, a tumor suppressor for myeloid leukemia. Koschmieder Steffen (Ed.). In: *Myeloid Leukemia/Book1*. ISBN 978-953-307-789-5, 2011. (LCO)

Bergerson RJ, Collier LS, Sarver AL, Been RA, Lugthart S, Diers MD, Zuber J, Rappaport AR, Nixon MJ, Silverstein KAT, Fan D, Lamblin AFJ, **Wolff L**, Kersey JH, Delwel R, Lowe SW, O'Sullivan MG, Kogan SC, Adams DJ, and Largaespada DA: An insertional mutagenesis screen identifies genes that cooperate with *Mll-AF9* in a murine leukemogenesis model. *Blood*. In press. (LCO)

Baron BW, Anastasi J, Hyjek EM, Bies J, Reddy P, Dong J, Joseph L, Thirman MJ, Wroblewski K, **Wolff L**, and Baron JM: The PIM1 gene cooperates with the human BCL6 gene to promote the development of lymphomas. *Proc. Natl. Acad. Sci. USA*. In press. (LCO)

Fares J, Koller R, Humeniuk R, **Wolff L**, and Bies J: The Tumor Suppressor p15Ink4b Regulates Differentiation and Maturation of Myeloid Dendritic Cells. *Blood*. 119: 5005-5015, 2012. (LCO)

Corrigan-Curay J, Cohen-Haguenuer O, O'Reilly M, Ross SR, Fan H, Rosenberg N, Somia N, King N, Friedmann T, Dunbar C, Aiuti A, Naldini L, Baum C, von Kalle C, Kiem HP, Montini E, Bushman F, Sorrentino BP, Carrondo M, Malech H, Gahrton G, Shapiro R, **Wolff L**, Rosenthal E, Jambou R, Zaia J, and Kohn DB: Challenges in Vector and Trial Design Using Retroviral Vectors for Long-Term Gene Correction in Hematopoietic. *Molecular Ther*. 20: 1084-1094, 2012. (LCO)

Pediatric Oncology Branch - Crystall Mackall, M.D.

There were no submissions reported this month.

Molecular Targets Laboratory - James McMahon, Ph.D.

There were no submissions reported this month.

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

Funamizu N, Hu C, Lacy C, Schetter A, Zhang G, He P, Gaedcke J, Ghadimi BM, **Ried T**, Yffantis HG, Lee DH, Subleski J, Chan T, Weiss JM, Back TC, Yanaga K, Hanna N, Alexander HR, Maitra A, **Hussain SP**: Macrophage Migration Inhibitory Factor (MIF) induces epithelial to mesenchymal transition, enhances tumor aggressiveness and predicts clinical outcome in resected pancreatic ductal adenocarcinoma. *Int J Cancer*. In press. (GB)

Heselmeyer-Haddad K, Berroa Garcia LY, Bradley A, Ortiz-Melendez C, Lee W-J, Christensen R, Prindiville SA, Calzone KA, Soballe PW, Hu Y, Chowdhury SA, Schwartz R, Schäffer AA, and **Ried T**: Single-cell genetic analysis of ductal carcinoma in situ and invasive breast cancer reveals enormous tumor heterogeneity, yet conserved genomic imbalances and gain of *MYC* during progression. *Am. J. Pathol.* In press. (GB)

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

Cataisson C, Rosalba S, Shakeeb H, Moffitt AB, Wright L, Ming Y, Stephen R, Dai R-M, Lyakh L, Schenten D, **Yuspa HS** and **Trinchieri G**: IL-1R-MyD88 signaling mediates skin carcinogenesis in vivo and the RAS oncogenic profile in keratinocytes. *J Experimental Med*. In press. (LCBG)

Rodriguez V, Vasudevan S, Noma A, Carlson BA, **Green JE**, Suzuki T, and Chandrasekharappa SC: Structure-Function Analysis of Human TYW2 Enzyme Required for the Biosynthesis of a Highly Modified Wybutosine (yW) Base in Phenylalanine-tRNA. *PLoS One*. In pPress. (LCBG)

Bennett CN, Tomlinson CC, Michalowski AM, Chu IM, Luger D, Mitterader LR, Aprelikova O, Shou J, Piwnica-Worms H, **Caplen NJ**, Hollingshead MG and **Green JE**: Cross-species genomic and functional analyses identify a combination therapy using a CHK1inhibitor and a ribonucleotide reductase inhibitor to treat triple-negativebreast cancer. *Breast Cancer Res*. In press. (LCBG)

Arlt VM, **Poirier MC**, Sykes SE, John K, Moserova M, Stiborova M, Wolf CR, Henderson CJ and Phillips DH: Exposure to benzo[*a*]pyrene of Hepatic Cytochrome P450 Reductase Null (HRN) and P450 Reductase Conditional Null (RCN) mice : detection of benzo[*a*]pyrene diol epoxide-DNA adducts by immunohistochemistry and P32-postlabelling. *Toxicol. Letts*. In press. (LCBG)

John K, Pratt MM, Beland FA, Chrucherll MI, McMullen G, Pogribny IP and **Poirier MC**: Benzo[*a*]pyrene (BP) DNA adduct formation in DNA repair deficient p53 haploinsufficient [*Xpa*(-/-)*p53*(=/-)] and wild type mice fed BP and BP plus chlorophyllin for 28 days. *Carcinogenesis*. In press. (LCBG)

Garcia-Suastegui WA, Huerta-Chagoya A, Pratt MM, John K, Petrosyan P, Rubio J, **Poirier MC** and Gonsebatt ME: PAH-DNA Adducts in non-smoking inhabitants of Mexico City. In: Polycyclic Aromatic Hydrocarbons: Chemistry, Occurrence and Health Issues. Bandeira GC and Meneses HE (Eds.). Nova Science Publishers, Hauppauge NY, USA. In press. (LCBG)

Poirier MC and Weisburger EK: Chemical Carcinogenesis. In: Cancer-the Outlaw Cell. LaFond RE (Ed.). American Chemical Society, Oxford University press, Oxford UK, 179-188, 2012. (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 Genomic Integrity – Andre Nussenzweig, Ph.D.

There were no submissions reported this month.

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

Deziel NC, Wei, W-Q, Abnet CC, Qiao Y-L, Sunderland D, Ren J-S, Schantz MM, Zhang Y, Strickland PT, Abubaker S, Dawsey SM, Friesen MC, and Roth MJ: A multi-day environmental study of polycyclic aromatic hydrocarbon exposure in a high-risk region for esophageal cancer in China. *J. Exposure Sci. & Environmental Epidemiol.* In press. (LP; PI: **Oberholtzer JC**)

Fend F, Cabecadas J, Gaulard P, **Jaffe ES**, Kluin P, Kuzu I, Peterson L, Wotherspoon A, and Sundström C: Early lesions in lymphoid neoplasia: Conclusions based on the Workshop of the XV meeting of the European Association of Hematopathology and the Society of Hematopathology in Uppsala, Sweden. *J. Hematopathol.* In press. (LP)

Qi CF, Kim YS, Xiang S, Abdullaev Z, Torrey TA, Janz S, Kovalchuk AL, Sun J, Chen D, Cho WC, Gu W, and Morse III HC: Characterization of ARF-BP1/HUWE1 interactions with CTCF, MYC, ARF and p53 in MYC-driven B cell neoplasms. *Int. J. Mol Sci.* 13(5): 6204-6219, 2012. (LP; PI: **Oberholtzer JC**)

Soto-Pantoja DR, Miller TW, Pendrak ML, DeGraff WG, Sullivan C, Ridnour LA, Abu-Asab M, **Wink DA**, **Tsokos M**, and **Roberts DD**: CD47 deficiency confers cell and tissue radioprotection by activation of autophagy. *Autophagy.* In press. (LP)

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

Qian Z, Dimitriadis EK, Edgar R, Eswaramoorthy P, and **Adhya S**: Galactose repressor mediated intersegmental chromosomal connections in Escherichia coli. Proc. Natl. Acad. Sci. U.S.A. 109: 11336-11341, 2012. (LMB)

Matsusaka T, Niimura F, Shimizu A, **Pastan I**, Saito A, Kobori H, Nishiyama A, and Ichikawa I: Liver angiotensinogen is the primary source of renal angiotensin II. J. Am. Soc. Nephrol. 23: 1181-1189, 2012. (LMB)

Pak Y, Zhang Y, **Pastan I**, and **Lee B**: Antigen shedding may improve efficiencies for delivery of antibody-based anticancer agents in solid tumors. Cancer Res. 72: 3143-3152, 2012. (LMB)

Liu W, Onda M, **Lee B**, **Kreitman RJ**, **Hassan R**, Xiang L, and **Pastan I**: Recombinant immunotoxin engineered for low immunogenicity and antigenicity by identifying the silencing human B-cell epitopes. Proc. Natl. Acad. Sci. U.S.A. 109: 11782-11787, 2012. (LMB)

Camberg JL and **Wickner S**: Regulated proteolysis as a force to control the cell cycle. Structure. 20: 1128-1130, 2012. (LMB)

Kim H, Phung Y, and **Ho M**: Changes in global gene expression associated with 3D structure of tumors: an ex vivo matrix-free mesothelioma spheroid model. PLoS One. 7: e39556, 2012. (LMB)

Thomas A and **Hassan R**: Immunotherapies for non-small-cell lung cancer and mesothelioma. Lancet Oncol. 13: e301-310, 2012. (LMB)

Sinha RA, You SH, Zhou J, Siddique MM, Bay BH, Zhu X, Privalsky ML, **Cheng SY**, Stevens RD, Summers SA, Newgard CB, Lazar MA, and Yen PM: Thyroid hormone stimulates hepatic lipid catabolism via activation of autophagy. J. Clin. Invest. 122: 2428-2438, 2012. (LMB)

Chocron ES, Syre NL, Holstein D, Saelim N, Ibdah JA, Dong LQ, Zhu X, **Cheng SY**, and Lechleiter JD: The trifunctional protein mediates thyroid hormone receptor-dependent stimulation of mitochondria metabolism. Mol. Endocrinol. 26: 1117-1128, 2012. (LMB)

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

There were no submissions reported this month.

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

Gao R, Huang SY, Marchand C, and **Pommier Y**: Biochemical characterization of human tyrosyl DNA phosphodiesterase 2 (TDP2/TTRAP): a Mg²⁺/Mn²⁺-dependent phosphodiesterase specific for the repair of topoisomerase cleavage complexes. *J. Biol. Chem.* In press. (LMP)

Solier S, Kohn KW, Scroggins B, Xu W, Trepel J, **Neckers L**, and **Pommier Y**: Feature article: Heat shock protein 90alpha (HSP90alpha) a substrate and chaperone of DNA-PK necessary for the apoptotic response. *Proc. Natl. Acad. Sci. USA.* In press. (LMP)

Zeng Z, Sharma A, Ju L, Murai J, Umans L, Vermeire L, **Pommier Y**, Takeda S, Huylebroeck D, Caldecott KW, and El-Khamisy SF: TDP2 promotes repair of topoisomerase I-mediated DNA damage in the absence of TDP1. *Nucleic Acids Res.* In press. (LMP)

Bergmann JH, Martins NM, **Larionov V**, Masumoto H, and Earnshaw WC: HACKing the centromere chromatin code: insights from human artificial chromosomes. *Chromosome Res.* In press. (LMP)

Spano D, Marshall JC, Marino N, De Martino D, Romano A, Scopettuolo MN, Bello AM, Di Dato V, Navas L, De Vita G, Medaglia C, **Steeg PS**, and Zollo M: Dipyridamole prevents triple-negative breast-cancer progression. *Clin. Exp. Metastasis.* In press. (LMP)

Reinhold WC, Sunshine M, Liu H, Varma S, **Kohn KW**, Morris J, **Doroshov J**, and **Pommier Y**: CellMiner: a web-based suite of genomic and pharmacologic tools to explore transcript and drug patterns in the NCI-60 cell line set. *Cancer Res.* 72: 3499-3511, 2012. (LMP)

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

Yang S, Karne NK, Goff SL, Black MA, Xu H, Bischof B, Cornetta K, **Rosenberg SA**, Morgan RA and Feldman SA: A simple and effective method to generate lentiviral vectors for *ex vivo* gene delivery to mature human peripheral blood lymphocytes. *Hum. Gene Ther. Meth.* In press. (SB)

Alvarez-Downing MM, Inchauste SM, Dudley ME, White DE, Wunderlich JR, **Rosenberg SA**, and **Kammula US**: Minimally invasive liver resection to obtain tumor-infiltrating lymphocytes for adoptive cell therapy in patients with metastatic melanoma. *World J. Surg. Oncol.* 22: 10(1): 113, 2012. (SB)

Schrump DS: Targeting epigenetic mediators of gene expression in thoracic malignancies. *Biochim Biophys Acta.* In press. (SB)

Xie Y, Tobin LA, Camps J, Wangsa D, Yang J, Rao M, Witasp E, Awad KS, Yoo N, **Ried T**, and **Kwong KF**: MicroRNA-24 regulates XIAP to reduce the apoptosis threshold in cancer cells. *Oncogene*. In press. (SB)

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.

Chemical Biology Laboratory - Joel Schneider, Ph.D.

Sinthuvanich C, Veiga AS, Gupta K, Gaspar D, **Blumenthal R**, and **Schneider JP**: Anticancer beta-hairpin peptides: Membrane-induced folding triggers activity. *JACS*. 134: 6210-6217, 2012. (CBL)

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, Watkins KE, and **Hurwitz AA**: Isolation of immune cells from primary tumors. *J Vis Exp*. 16: pii: 3952, 2012. (LMI)

Ruppert S, Li W, Zhang G, Carlson AL, Limaye A, **Durum SK**, and Khaled AR: The major isoforms of Bim contribute to distinct biological activities that govern the processes of autophagy and apoptosis in interleukin-7 dependent lymphocytes. *Biochim Biophys Acta*. In press. (LMI)

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

Carrington M and Alter G: Innate Immune Control of HIV. Cold Spring Harb. Perspect Med. 7: a007070, 2012. (LEI)

Fadda L, Korner C, Kumar S, van Teijlingen NH, Piechocka-Trocha A, **Carrington M**, and Altfeld M: HLA-Cw*0102-restricted HIV-1 p24 epitope variants can modulate the binding of the inhibitory KIR2DL2 receptor and primary NK cell function. PLoS Pathog. 8: e1002805, 2012. (LEI)

Goldszmid RS, Caspar P, Rivollier A, White S, Dzutsev A, Hieny S, Kelsall B, **Trinchieri G**, and Sher A: NK cell-derived interferon- γ orchestrates the cellular dynamics and differentiation of monocytes into inflammatory dendritic cells at the site of infection. Immunity. 36: 1047-1059, 2012. (LEI)

Naruto T, Gatanaga H, Sakai K, **Carrington M**, Oka S, and Takiguchi M: HLA class I mediated control of HIV-1 in Japanese, where the protective HLA-B*57 and –B*27 are absent. J Virol. In press. (LEI)

Zhu Q, Talton J, Zhang G, Cunningham T, Wang Z, Waters RC, Kirk J, Eppler B, **Klinman DM**, Sui Y, Gagnon S, Belyakov IM, Mumper RJ, and **Berzofsky JA**: Large intestine-targeted, nanoparticle-releasing oral vaccine to control genitorectal viral infection. Nat Med. In press. (LEI)

Steinhagen F, Meyer C, Tross D, Gursel M, Maeda T, Klaschik S, and **Klinman DM**: Activation of type 1 interferon-dependent genes characterizes the “core response” induced by CpG DNA. J Leukoc Biol. In press. (LEI)

Wu J, Li J, Salcedo R, Mivechi NF, **Trinchieri G**, and Horuzsko A: The pro-inflammatory myeloid cell receptor TREM-1 controls kupffer cell activation and development of hepatocellular carcinoma. Cancer Res. In press. (LEI)

Hodge DL, Reynolds D, Cerbán FM, Correa SG, Baez N, **Young HA**, and Cecilia Rodriguez-Galan M: MCP-1/CCR2 interactions direct migration of peripheral B and T lymphocytes to the thymus during acute infectious/inflammatory processes. Eur J Immunol. In press. (LEI)

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

Miyagawa F, Zhang H, Terunuma A, Ozato K, Tagaya Y, and **Katz SI**: Interferon regulatory factor 8 integrates T-cell receptor and cytokine-signaling pathways and drives effector differentiation of CD8 T cells. Proc. Natl. Acad. Sci. USA. In press. (DB)

Metabolism Branch - Thomas Waldmann, M.D.

Gembarska A, Luciani F, Fedele C, Russell EA, Dewaele M, Villar S, Zwolinska A, Haupt S, de Lange J, Yip D, Goydos J, Haigh JJ, Haupt Y, Larue L, Jochemsen A, Shi H, Moriceau G, Lo RS, Ghanem G, Shackleton M, **Bernal F**, and Marine J-C: MDM4 is a key therapeutic target in cutaneous melanoma. *Nature Med.* In press. (MB)

Laboratory of Protein Dynamics & Signaling - Allan Weissman, M.D.

Hristova VA, Stringer DK, and **Weissman AM**: Cullin RING Ligases: Glommed by Glomulin. *Mol. Cell.* In press. (LPDS)

Macromolecular Crystallography Laboratory - Alexander Wlodawer, 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.

Mouse Cancer Genetics Program

There were no submissions reported this month.

Basic Research Laboratory

James Phang

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Cheryl Winkler

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Limou S, Delaneau O, van Manen D, An P, Sezgin E, Le Clerc S, Coulonges C, Troyer JL, Veldink JH, van den Berg LH, Spadoni JL, Taing L, Labib T, Montes M, Delfraissy JF, Schachter F, O'Brien SJ, Buchbinder S, van Natta ML, Jabs DA, Froguel P, Schuitemaker H, **Winkler CA**, and Zagury JF: Multicohort genomewide association study reveals a new signal of protection against HIV-1 acquisition. *J Infect Dis.* 205(7): 1155-1162, 2012. (BRL)

Emeritus Scientists

Victor Marquez

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