

CCR MANUSCRIPT NOTIFICATION (APRIL 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.

Boeggeman E, Ramakrishnan B, Pasek M, Manzoni M, Puri A, Loomis KH, Waybright TJ, and **Qasba PK**: Site specific conjugation of fluoroprobes to the remodeled Fc N-glycans of monoclonal antibodies using mutant glycosyltransferases: Application for cell surface antigen detection. *Bioconjug. Chem.* 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.

Choi WJ, Kim S-E, Stephen AG, Weidlich I, Giubellino A, Liu F, Worthy KM, Bindu L, Fivash MJ, **Nicklaus MC**, **Bottaro DP**, Fisher RJ, and **Burke Jr TR**: Identification of Shc Src homology 2 domain-binding peptoid-peptide hybrids. *J Med Chem.* 52: 1612-1618, 2009. (LMC)

Jiang S, Liao CZ, Bindu L, Yin B, Worthy KW, Fisher RJ, **Burke Jr TR**, **Nicklaus MC**, and **Roller PP**: Discovery of thioether-bridged cyclic pentapeptides binding to Grb2-SH2 domain with high affinity. *Bioorg & Med Chem Lett.* 19: 2693-2698, 2009. (LMC)

Li Q, Anver MR, Butcher DO, and **Gildersleeve JC**: Resolving conflicting data on expression of the Tn antigen and implications for clinical trials with cancer vaccines. *Mol Cancer Ther.* 8(4): 971-979, 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.

Russo AL, Jedlicka K, Wernick M, McNally D, Kirk M, Sproull M, Smith S, Shankavaram U, Kaushal A, **Figg WD, Dahut W**, Citrin D, **Bottaro DP**, Albert PS, Tofilon P, and **Camphausen K**: Urine Analysis and Protein Networking Identify c-Met as a Marker of Metastatic Prostate Cancer. Clin. Cancer Res. In press. (ROB)

Molecular Imaging Program - Peter Choyke, M.D.

Turkbey B, **Pinto PA**, and **Choyke PL**: Imaging techniques for prostate cancer: implications for focal therapy. Nat Rev Urol. 6(4): 191-203, 2009. (MIP)

Kosaka N, Ogawa M, Longmire MR, **Choyke PL**, and Kobayashi H: Multi-targeted multi-color in vivo optical imaging in a model of disseminated peritoneal ovarian cancer. J Biomed Opt. 14(1): 014023, 2009. (MIP)

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. (MIP)

Barrett T, Ravizzini G, **Choyke PL**, and Kobayashi H: Dendrimers in medical nanotechnology. IEEE Eng Med Biol Mag. 28(1): 12-22, 2009. (MIP)

Turkbey B, Ocak I, Daryanani K, Font-Montgomery E, Lukose L, Bryant J, Tuchman M, Mohan P, Heller T, Gahl WA, **Choyke PL**, and Gunay-Aygun M: Autosomal recessive polycystic kidney disease and congenital hepatic fibrosis (ARPKD/CHF). Pediatr Radiol. 39(2): 100-111, 2009. (MIP)

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

There were no submissions reported this month.

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

There were no submissions reported this month.

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

Derolf AR, Kristinsson SY, Andersson TM, **Landgren O**, Dickman PW, and Bjorkholm M: Improved patient survival for acute myeloid leukemia: a population-based study of 9729 patients diagnosed in Sweden between 1973 and 2005. Blood. 113(16): 3666-3672, 2009. (MOB)

Goldin LR and **Landgren O**: Autoimmunity and lymphomagenesis. *Int J Cancer*. 124(7): 1497-1502, 2009. (MOB)

Martin DN, Mikhail IS, and **Landgren O**: Autoimmunity and hematologic malignancies: associations and mechanisms. *Leuk Lymphoma*. 50(4): 541-550, 2009. (MOB)

Anderson LA, Pfeiffer RM, **Landgren O**, Gadalla S, Berndt SI, and Engels EA: Risks of myeloid malignancies in patients with autoimmune conditions. *Br J Cancer*. 100(5): 822-828, 2009. (MOB)

Caporaso NE, Goldin LR, Anderson WF, and **Landgren O**: Current Insight on Trends, Causes, and Mechanisms of Hodgkin's Lymphoma. *Cancer J*. 15(2): 117-123, 2009. (MOB)

Therapontos C, Erskine L, Gardner E, **Figg WD**, and Vargesson N: Thalidomide Induces Limb Defects by Angiogenic Outgrowth during Early Limb Formation. *Proc. Natl. Acad. Sci*. In press. (MOB)

Piekarz RL, Frye R, Turner M, Wright JJ, Allen S, Kirschbaum MH, Zain J, Prince MH, Leonard J, Geskin L, Hutchins L, Craig M, Reeder C, **Figg WD**, Gardner ER, Chen X, Liewehr DJ, Steinberg SM, **Jaffe ES**, **Stetler-Stevenson MA**, Ling A, **Fojo AT**, and **Bates SE**: A Multi-Institutional Phase II Trial of the HDAC Inhibitor Romidepsin as Monotherapy for Patients with Cutaneous T-cell Lymphoma. *J. Clin. Oncol*. In press. (MOB)

Bates SE, Zhan Z, Steadman K, Obruzt T, Luchenko V, Frye R, Robey RW, Turner M, Gardner E, **Figg WD**, Steinberg SM, **Fojo T**, To KW, and Piekarz RL: Laboratory Correlates for a Phase II Trial of Romidepsin of Cutaneous and Peripheral T Cell Lymphoma. *Blood*. In press. (MOB)

Kummar S, **Doroshov JH**, Tomaszewski JE, Calvert AH, Lobbezoo M, and **Giaccone G**: Phase O clinical trials: recommendations from the Task Force on Methodology for the Development of Innovative Cancer Therapies. *Eur. J. Cancer* 45: 741-746, 2009. (MOB)

Laboratory of Metabolism - Frank Gonzalez, Ph.D.

There were no submissions reported this month.

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

Hunt R, Sauna ZE, **Ambudkar SV**, **Gottesman MM** and Kimchi-Sarfaty C: Silent (Synonymous) SNPs: Should We Care About Them? Komar A (Ed.). In: *Single Nucleotide Polymorphisms: Methods and Protocols*, Second Edition. Humana Press, Totowa, New Jersey. 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.

Michelman-Ribeiro A, Mazza D, Rosales T, Stasevich TJ, Boukari H, Rishi V, Vinson C, Knutson JR and **McNally JG**: Direct measurement of association and dissociation rates of DNA binding in live cells by fluorescence correlation spectroscopy. *Biophys. J.* In press. (LRBGE)

Hakim O, John S, Ling JQ, Biddie SC, Hoffman AR, and **Hager GL**: Glucocorticoid receptor activation of the Ciz1-Lcn2 locus by long range interactions. *J. Biol. Chem.* 284: 6048-6052, 2009. (LRBGE)

John S, Johnson TA, Sung MH, Koch-Paiz CA, Davis SR, Walker R, **Meltzer P**, and **Hager GL**: Kinetic complexity of the global response to glucocorticoid receptor action. *Endocrinology.* 150: 1766-1774, 2009. (LRBGE)

Hager GL: Footprints by deep sequencing. *Nature Methods.* 6: 252-253, 2009. (LRBGE)

Laboratory of Human Carcinogenesis - Curtis Harris, M.D.
There were no submissions reported this month.

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

Retroviral Replication Laboratory - Stephen Hughes, Ph.D.

Rausch JW, Abbondanzieri E, Liu S, Zhuang X, and **Le Grice SFJ**: Retrovirus replication: New perspectives on enzyme and substrate dynamics. *Advances in Retrovirus.* In press. (RRL)

Turner KB, Yi-Brunozzi HY, Brinson RG, Marino JP, Fabris D, and **Le Grice SFJ**: SHAMS - Combining chemical modification of RNA with mass spectrometry to examine polypurine tract-containing RNA/DAN hybrids. *RNA.* In press. (RRL)

Waheed AA and **Freed EO**: Lipids and membrane microdomains in HIV-1 replication. *Virus Res.* In press. (RRL)

Laboratory of Comparative Carcinogenesis - Larry Keefer, Ph.D.
There were no submissions reported this month.

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

There were no submissions reported this month.

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

Boris R, Proano M, **Linehan WM**, **Pinto P**, and **Bratslavsky G**: Robotic assisted partial nephrectomy for multiple renal masses: feasibility and results of initial experience. J Urol. In press. (UOB)

Giubellino A, **Linehan WM**, and **Bottaro DP**: Targeting the Met signaling pathway in renal cancer. Expert Rev Anticancer Ther. In press. (UOB)

Beroukhim R, Brunet JP, Di Napoli A, Mertz KD, Seeley A, Pires MM, Linhart D, Worrell RA, Moch H, Rubin MA, Sellers WR, Meyerson M, **Linehan WM**, Kaelin Jr WG, and Signoretti S: Patterns of Gene Expression and Copy-Number Alterations in von-hippel lindau disease-associated and Sporadic Clear Cell Carcinoma of the Kidney. Cancer Res. 69(11): 4674-4681, 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.

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)

Miller TW, Isenberg JS, and **Roberts DD**: Molecular regulation of tumor angiogenesis and perfusion via redox signaling. *Chem. Rev.* In press. (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): 625-635, 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.

Weldon JE, Xiang L, Chertov O, Marguiles I, **Kreitman RJ**, **FitzGerald DJ**, and **Pastan I**: A protease-resistant immunotoxin against CD22 with greatly increased activity against CLL and diminished animal toxicity. *Blood.* 113: 3792-3800, 2008. (LMB)

Kreitman RJ: Recombinant immunotoxins containing truncated bacterial toxins for the treatment of hematologic malignancies. *BioDrugs.* 23: 1-13, 2009. (LMB)

Sarnovsky R, Rea J, Makowski M, Hertle R, Kelly C, Antignani A, Pastrana DV, and **FitzGerald DJ**: Proteolytic cleavage of a C-terminal prosequence leading to autoprocessing at the N Terminus activates leucine aminopeptidase from *Pseudomonas aeruginosa*. *J. Biol. Chem.* 284: 10243-10253, 2009. (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.

Lorenzi PL, Reinhold WC, Varma S, Hutchinson AA, **Pommier Y**, **Chanock SJ**, and Weinstein JN: DNA fingerprinting of the NCI-60 cell line panel. *Mol. Cancer Ther.* 8: 713-724, 2009. (LMP)

Kim JH, Ebersole T, Kouprina N, Noskov VN, Ohzeki J, Masumoto H, Mravinac B, Sullivan BA, Pavlicek A, Dovat S, Pack SD, Kwon YW, Flanagan PT, Loukinov D, Lobanekov V, and **Larionov V**: Human gamma-satellite DNA maintains open chromatin structure and protects a transgene from epigenetic silencing. *Genome Res.* 19: 533-544, 2009. (LMP)

Almanzar G, Olkhanud PB, Bodogai M, Dell'agnola C, Baatar D, Hewitt SM, Ghimenton C, Tummala MK, Weeraratna AT, Hoek KS, Kouprina N, **Larionov V**, and Biragyn A: Sperm-derived SPANX-B is a clinically relevant tumor antigen that is expressed in human tumors and readily recognized by human CD4+ and CD8+ T cells. *Clin. Cancer Res.* 15: 1954-1963, 2009. (LMP)

Chew HK, **Doroshov JH**, Frankel P, Margolin KA, Somlo G, Lenz HJ, Gordon M, Zhang W, Yang D, Russell C, Spicer D, Synold T, Bayer R, Hantel A, Stiff PJ, Tetef ML, Gandara DR, and Albain KS: Phase II studies of gemcitabine and cisplatin in heavily and minimally pretreated metastatic breast cancer. *J. Clin. Oncol.* 27: 2163-2169, 2009. (LMP)

Doroshov JH, Croyle RT, and **Niederhuber JE**: Five strategies for accelerating the war on cancer in an era of budget deficits. *Oncologist* 14: 110-116, 2009. (LMP)

Pommier Y and Cushman M: The indenoisoquinoline noncamptothecin topoisomerase I inhibitors: update and perspectives. *Mol. Cancer Ther.* In press. (LMP)

Marshall JC, Lee JH, and **Steeg PS**: Clinical-translational strategies for the elevation of Nm23-H1 metastasis suppressor gene expression. *Mol. Cell. Biochem.* In press. (LMP)

Kummar S, Kinders R, Gutierrez ME, Rubinstein L, Parchment RE, Phillips LR, Ji J, Monks A, Low JA, Chen A, **Murgo AJ**, Collins J, Steinberg SM, Eliopoulos H, Giranda VL, Gordon G, **Helman L**, **Wiltrout R**, Tomaszewski JE, and **Doroshov JH**: Phase O clinical trial of the poly (ADP-ribose) polymerase inhibitor ABT-888 in patients with advanced malignancies. *J. Clin. Oncol.* In press. (LMP)

Shibata SI, **Doroshov JH**, Frankel P, Synold TW, Yen Y, Gandara DR, Lenz HJ, Chow WA, Leong LA, Lim D, Margolin KA, Morgan RJ, Somlo G, and Newman EM: Phase I trial of GTI-2040, oxaliplatin, and capecitabine in the treatment of advanced metastatic solid tumors: a California Cancer Consortium Study. *Cancer Chemother. Pharmacol.* 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.

There were no submissions reported this month.

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

There were no submissions reported this month.

Experimental Immunology Branch - Alfred Singer, M.D.

There were no submissions reported this month.

Gene Regulation and Chromosome Biology Lab - Jeffrey Strathern, Ph.D.

There were no submissions reported this month.

Laboratory of Experimental Carcinogenesis - Snorri Thorgeirsson, M.D., Ph.D.

There were no submissions reported this month.

Cancer and Inflammation Program - Giorgio Trinchieri, M.D.

Laboratory of Molecular Immunoregulation - Joost Oppenheim, M.D.

There were no submissions reported this month.

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

There were no submissions reported this month.

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

There were no submissions reported this month.

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

There were no submissions reported this month.

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.