

## CCR MANUSCRIPT NOTIFICATION (SEPTEMBER 2010)

### **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.**

Borges AR, Wieczorek L, Johnson B, Benesi A, Brown B, Kensinger R, Krebs F, Wigdahl B, **Blumenthal R**, Puri A, McCutchan F, Birx D, Polonis VE, and Schengrund C-L: Multivalent dendrimeric compounds containing carbohydrates expressed on immune cells inhibit infection by primary isolates of HIV-1. *Virology*. In press. (CCRNP)

Garg H, Viard M, Jacobs A, and **Blumenthal R**: Targeting HIV-1 gp41-induced fusion and pathogenesis for anti-viral therapy. *Curr. Topics Med. 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.**

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

There were no submissions reported this month.

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

There were no submissions reported this month.

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

Nagarkar RP, Hule RA, Pochan DJ, and **Schneider JP**: Domain swapping in materials design. *Biopolymers (Peptide Science)*. 94(1): 141-155, 2010. (CBL)

Li Q, Rodriguez LG, Farnsworth DF, and **Gildersleeve JC**: Effects of hapten density on the induced antibody repertoire. *Chem. Bio. Chem.* 11: 1686-1691, 2010. (CBL)

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

There were no submissions reported this month.

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

McCann TE, Kosaka N, Mitsunaga M, **Choyke PL**, **Gildersleeve JC**, and Kobayashi H: Biodistribution and Excretion of Monosaccharide-Albumin Conjugates Measured with in Vivo Near-Infrared Fluorescence Imaging. *Bioconjug Chem.* In press. (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.**

Liang X, Guo Y, **Figg WD**, **Fojo AT**, Mueller MD, and Yu JJ: The Role of Wild-type p53 in Cisplatin-induced Chk2 Phosphorylation and the Inhibition of Platinum Resistance with a Chk2 Inhibitor. *Cancer Res. Practice.* In press. (MOB)

English BC, Baum CE, Adelberg DE, Sissung TM, Kluetz PG, **Dahut WL**, Price DK, and **Figg WD**: A SNP in *CYP2C8* Is Not Associated with the Development of Bisphosphonate-Related Osteonecrosis of the Jaw in Men with Castrate-Resistant Prostate Cancer. *Ther. Clin. Risk Management.* In press. (MOB)

Pastina I, Giovannetti E, Chioni A, Sissung T, Crea F, Orlandini C, Price DK, Cianci C, **Figg WD**, Ricci S, and Danesi R: Cytochrome P450 1B1 (CYP1B1) polymorphisms Associated with Response to Docetaxel in Castrate-Resistant Prostate Cancer (CRPC) Patients. *BMC Cancer.* In press. (MOB)

Sharifi N, Qi J, Bane S, Sharma S, Robey R, **Figg WD**, **Farrar WL**, and Kingston DGI: Survivin is Not induced by Novel Taxanes. *Mol. Pharmaceut.* In press. (MOB)

Jain L, Gardner ER, Venitz J, **Giaccone G**, and **Figg WD**: Determination of PF-04928473 in Human Plasma using Liquid Chromatography with Tandem Mass Spectrometry. *J. Chrom. B.* In press. (MOB)

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

Cho J-Y, Matsubara T, Kang DW, Ahn S-H, Krausz KW, Idle JR, Luecke H, and **Gonzalez FJ**: Urinary metabolomics in FXR-null mice reveals activated adaptive metabolic pathways upon bile acid challenge. *J. Lipid Res.* 51: 1063-1074, 2010. (LM)

Bility MT, Zhu B, Kang BH, **Gonzalez FJ**, and Peters JM: Ligand activation of peroxisome proliferator-activated receptor- $\beta/\delta$  (PPAR $\beta/\delta$ ) and inhibition of cyclooxygenase 2 (COX2) enhances inhibition of skin tumorigenesis. *Toxicol. Sci.* 113: 27-23, 2010. (LM)

Cheng K, Ho K, Stokes R, Scott C, Lau SM, Hawthorne WJ, O'Connell PJ, Loudovaris T, Kay TW, Kulkarni RN, Okada T, Wang X, Yim SH, Grey ST, Biankin AV, Kench JG, Laybutt DR, **Gonzalez FJ**, Kahn CR, and Gunton JE: Loss of hypoxia-inducible factor (HIF)-1 $\alpha$  reduces  $\beta$ -cell reserve and iron chelation increases HIF-1 $\alpha$  and improves glucose tolerance. *J. Clin. Invest.* 120: 2171-2183, 2010. (LM)

Palkar PS, Anderson CR, **Gonzalez FJ**, and Peters JM: Effect of prenatal peroxisome proliferator-activated receptor  $\alpha$  (PPAR $\alpha$ ) agonism on postnatal development. *Toxicology*. 276: 79-84, 2010. (LM)

Cheng J, Shah YM, Ma X, Pang X, Tanaka T, Kodama T, Krausz KW, and **Gonzalez FJ**: Therapeutic role of rifaximin in inflammatory bowel disease: clinical implication of human pregnane X receptor activation. *J. Pharmacol. Exp. Ther.* 335: 32-41, 2010. (LM)

Niu S, Li F, Tan DX, Zhang L, Idle JR, **Gonzalez FJ**, and Ma X: Analysis of N(1)-acetyl-N(2)-formyl-5-methoxykynuramine/N(1)-acetyl-5-methoxy-kynuramine formation from melatonin in mice. *J. Pineal Res.* 49: 106-114, 2010. (LM)

Li F, Patterson AD, Höfer CC, Krausz KW, **Gonzalez FJ**, and Idle JR: Comparative metabolism of cyclophosphamide and ifosfamide in the mouse using UPLC-ESI-QTOFMS-based metabolomics. *Biochem. Pharmacol.* 80: 1063-1074, 2010. (LM)

Manna SK, Patterson AD, Yang Q, Krausz KW, Li H, Idle JR, Fornace Jr AJ, and **Gonzalez FJ**: Identification of noninvasive biomarkers for alcohol-induced liver disease using urinary metabolomics and the *Ppara*-null mouse. *J. Proteom. Res.* 9: 4176-4188, 2010. (LM)

Palkar PS, Borland MG, Naruhn S, Ferry CH, Lee C, Sk UH, Sharma AK, Amin S, Murray IA, Anderson CR, Perdew GH, **Gonzalez FJ**, Müller R, and Peters JM: Cellular and pharmacological selectivity of the peroxisome proliferator-activated receptor-beta/delta antagonist GSK3787. *Mol. Pharmacol.* 78: 419-430, 2010. (LM)

Reyes-Hernández OD, Mejía-García A, Cabañas-Cortés MA, Ramírez P, Chávez-González P, **Gonzalez FJ**, and Elizondo G: Ube213 gene expression is modulated by activation of the aryl hydrocarbon receptor: Implications for p53 ubiquitylation. *Biochem. Pharmacol.* 80: 932-940, 2010. (LM)

Lee JH, Wada T, Febbraio M, Matsubara T, Lee MJ, He J, **Gonzalez FJ**, and Xie W: A novel role for the dioxin receptor in fatty acid metabolism and hepatic steatosis. *Gastroenterology*. In press. (LM)

Shi Z, Dragin N, Miller ML, Stringer KF, Johansson E, Chen J, Uno S, **Gonzalez FJ**, Rubio CA, and Nebert DW: Oral benzo[a]pyrene-induced cancer: two distinct types in different target organs depend on the mouse Cyp1 genotype. *Int. J. Cancer*. In press. (LM)

Stroeve J, Brufau G, Stellaard F, **Gonzalez FJ**, Staels B, and Kuipers F: Intestinal FXR-mediated FGF15 production contributes to diurnal control of hepatic bile acid synthesis in mice. *Lab. Invest.* In press. (LM)

Bonzo JA, Patterson AD, Krausz KW, and **Gonzalez FJ**: Metabolomics identifies novel Hnf1 $\alpha$ -dependent physiological pathways in vivo. *Molec. Endocrinol.* In press. (LM)

Genovese S, Foreman JE, Epifano F, **Gonzalez FJ**, Curini M, Epifano F, and Peters JM: A natural propenoic acid derivative activates peroxisome proliferator-activated receptor- $\beta/\delta$  (PPAR $\beta/\delta$ ). *Molec. Pharmacol.* In press. (LM)

Akita N, Tsujita M, Yokota T, **Gonzalez FJ**, Ohte N, Kimura G, and Yokoyama S: High density lipoprotein turnover is dependent on peroxisome proliferator-activated receptor  $\alpha$  in mice. *J. Atheroscler. Thromb.* In press. (LM)

Jennings BL, Sahan-Firat S, Estes AM, Das K, Farjana N, Fang XR, **Gonzalez FJ** and Malik KU: Cytochrome P450 CYP1B1 contributes to angiotensin II-induced hypertension and associated pathophysiology: A novel target for antihypertensive agents. *Hypertension*. In press. (LM)

Wang XX, Jiang T, Shen Y, Caldas Y, Miyazaki-Anzai S, Santamaria H, Scherzer P, Lewis L, **Gonzalez FJ**, Adorini L, Pruzanski M, Kopp JB, Verlander JW, and Levi M: Diabetic nephropathy is accelerated by farnesoid X receptor deficiency and inhibited by farnesoid X receptor activation in a type 1 diabetes model. *Diabetes*. In press. (LM)

Tanaka N, Zhang X, Sugiyama E, Kono H, Nakajima T, Kanbe H, Horiuchi A, Tanaka E, **Gonzalez FJ**, and Aoyama T: Eicosapentaenoic acid improves hepatic steatosis independent of peroxisome proliferator-activated receptor  $\alpha$  (PPAR $\alpha$ ). *Biochem. Pharmacol.* In press. (LM)

Qu A, Shah YM, Matsubara T, Yang Q, and **Gonzalez FJ**: PPAR $\alpha$ -dependent Activation of cell cycle control and DNA repair genes in hepatic non-parenchymal cells. *Toxicol. Sci.* In press. (LM)

Ramdhan DH, Kamijima M, Wang D, Ito Y, Tanaka N, Yanagiba Y, Hayashi Y, Tanaka N, Aoyama T, **Gonzalez FJ**, and Nakajima T: Differential response to trichloroethylene-induced steatosis in wild-type and PPAR $\alpha$ -humanized mice. *Environ. Health Perspect.* In press. (LM)

Lu H, **Gonzalez FJ**, and Klaassen CD: Alterations in hepatic expression of phase-II enzymes and xenobiotic transporters after targeted disruption of hepatocyte nuclear factor 4 $\alpha$ . *Toxicol. Sci.* In press. (LM)

Abdelmegeed MA, Yoo SH, Henderson LE, **Gonzalez FJ**, and Song BJ: Peroxisome Proliferator-Activated Receptor- $\alpha$  protects mice from high fat-Induced non-alcoholic fatty liver. *J. Nutr.* In press.

Huerta-Yepe S, Baay-Guzman G, Bebenek IG, Hernandez-Pando R, Vega M, Riedl M, Diaz-Sanchez D, Klerup E, Tashkin DP, **Gonzalez FJ**, Bonavida B, Zeidler M, and Hankinson O: Hypoxia inducible factor promotes development of allergic airway inflammation. *Allergy.* In press. (LM)

Pang X, Cheng J, Krausz KW, Guo D, and **Gonzalez FJ**: Pregnane X receptor-mediated induction of Cyp3a by black cohosh. *Xenobiotica.* In press. (LM)

Patterson AD, **Gonzalez FJ**, and Idle JR: Xenobiotic metabolism - a view through the metabolometer. *Chem. Res. Toxicol.* 23: 851-860, 2010. (LM)

Jiang X, **Gonzalez FJ**, and Yu A: Genetically modified mouse models in drug metabolism and disposition. *Drug Metab. Rev.* In press. (LM)

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

Cha SS, An YJ, Lee CR, Lee HS, Kim YG, Kim SJ, Kwon KK, De Donatis GM, Lee JH, **Maurizi MR**, and Kang SG: Crystal structure of Lon protease: molecular architecture of gated entry to a sequestered degradation chamber. *EMBO J.* In press. (LCB)

Gillet J-P and **Gottesman MM**: Advances in the Molecular Detection of ABC Transporters Involved in Multidrug Resistance in Cancer. *Curr Pharm Biotechnol.* In press. (LCB)

Jenkins L, **Ott D**, Hayashi R, Coren L, Wang D, Xu Q, Schito M, Inman J, Appella D, and **Appella E**: Inactivation of HIV-1 by repetitive intracellular acetyl transfer from acetyl-CoA to the nucleocapsid protein through a small molecule catalyst. *Nat Chem Biol*. In press. (LCB)

Li DH, Chung YS, Gloyd M, Joseph E, Ghirlando R, Wright GD, Cheng YQ, **Maurizi MR**, Guarné A, and Ortega J: Acyldepsipeptide antibiotics induce the formation of a structured axial channel in ClpP: A model for the ClpX/ClpA-bound state of ClpP. *Chem Biol*. 17: 959-969, 2010. (LCB)

Niida H, Murata K, Shimada M, Ogawa K, Ohta K, Suzuki K, Fujigaki H, Khaw A, Banerjee B, Hande M, Miyamoto T, Miyoshi I, Shirai T, Motoyama N, Delhase M, **Appella E**, and Nakanishi M: Cooperative functions of Chk1 and Chk2 reduce tumor susceptibility in vivo. *EMBO J*. In press. (LCB)

Oh K-S, **Bustin M**, Mazur SJ, **Appella E**, and **Kraemer KH**: UV-induced histone H2AX phosphorylation and DNA damage related proteins accumulate and persist in nucleotide excision repair-deficient XP-B cells. *DNA Repair*. In press. (LCB)

West L, Roy S, Lachmi-Weiner K, Hayashi R, Shi X, **Appella E**, Kutateladze T, and Gozani O: The MBT repeats of L3MBTL1 link SET8 mediated p53 methylation at lysine 382 to target gene repression. *J Biol Chem*. 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.**

Fujita K, Horikawa I, Mondal AM, Jenkins LMM, **Appella E**, Vojtesek B, Bourdon J-C, Lane DP, and **Harris CC**: Positive feedback between p53 and TRF2 in telomere damage signaling and cellular senescence. *Nat Cell Biol*. In press. (LCB)

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

### **HIV DRP Host Virus Interaction Branch - Stephen Hughes, Ph.D.**

There were no submissions reported this month.

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

There were no submissions reported this month.

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

Chattopadhyay M, Velazquez CA, Pruski A, Nia KV, Abdelatif K, **Keefer LK**, and Kashfi K: Comparison between NO-ASA and NONO-ASA as safe anti-inflammatory, analgesic, antipyretic, anti-oxidant, chemopreventive prodrugs. *J Pharmacol Exp Ther*. In press. (LCC)

Nath N, Chattopadhyay M, Pospishil L, Cieciora LZ, Goswami S, Kodela R, Saavedra JE, **Keefer LK**, and Kashfi K: JS-K: a nitric oxide-releasing prodrug; modulates beta-catenin/TCF signaling in leukemic Jurkat cells: Evidence of an S-nitrosylated mechanism. *Biochem Pharmacol*. In press. (LCC)

Weyerbrock A, Walbridge S, Saavedra JE, **Keefer LK**, and Oldfield EH: Differential effects of nitric oxide on blood-brain barrier integrity and cerebral blood flow in intracerebral C6 gliomas. *Neuro-Oncology*. 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.**

There were no submissions reported this month.

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

Bies J, Sramko M, Fares J, Rosu-Myles M, Zhang S, Koller R, and **Wolff L**: Myeloid Specific Inactivation of p15Ink4b Results in Monocytosis and Predisposition to Myeloid Leukemia. *Blood*. 116(6): 979-987, 2010. (LCO)

KamikuboY, Zhao L, Wunderlich M, Corpora T, Hyde RK, Paul T, Kundu M, Garrett L, Compton S, Huang G, **Wolff L**, Ito Y, Bushweller J, Mulloy JC, and Liu PP: Accelerated leukemogenesis by truncated CBF $\beta$ -SMMHC defective in high-affinity binding with RUNX1. *Cancer Cell*. 17: 455-468, 2010. (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 and 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.**

Herishanu Y, Perez-Galan P, Liu D, Biancotto A, Pittaluga S, Vire B, Gibellini F, Njuguna N, Lee E, Stennett L, Raghavachari N, Liu P, McCoy JP, Raffeld M, **Stetler-Stevenson M**, Yuan C, Sherry R, Arthur DC, Maric I, White T, Marti GE, Munson P, **Wilson W**, and Wiestner A: The lymph node microenvironment promotes B-cell receptor signaling, NFkappaB activation, and tumor proliferation in chronic lymphocytic leukemia. *Blood*. In press. (LP)

Jourd'heuil D, Lancaster Jr JR, Fukuto J, **Roberts DD**, Miranda KM, Mayer B, Grisham MB, and **Wink DA**: The bell-shaped curve for peroxynitrite-mediated oxidation and nitration of NO is alive and well. *J. Biol. Chem.* 285(35): 1e15, 2010. (LP)

Perez-Galan P, Mora-Jensen H, Weniger MA, Shaffer AL, Rizzatti EG, Chapman CM, Mo CC, Stennett LS, Rader C, Liu P, Raghavachari N, **Stetler-Stevenson M**, Yuan CM, Pittaluga S, Maric I, Dunleavy KM, **Wilson WH**, **Staudt LM**, and Wiestner A: Bortezomib resistance in Mantle Cell Lymphoma is associated with plasmacytic differentiation. *Blood*. In press. (LP)

Turkbey B, Xu S, Kruecker J, Locklin J, Pang Y, Bernardo M, **Merino MJ**, Wood BJ, **Choyke PL**, and **Pinto PA**: Documenting the location of prostate biopsies with image fusion. *BJU Int.* In press. (LP)

Wagner M, Browne HN, **Linehan WM**, **Merino MJ**, Babar N, and Stratton P: Lipid cell tumors in two women with von Hippel-Lindau syndrome. *Obstet. Gynecol.* 116 (2): 535-539, 2010. (LP)

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

Johnson WE, Onorato DP, Roelke ME, Land ED, Cunningham M, Belden RC, McBride R, Jansen D, Lotz M, Shindle D, Howard J, Wildt DE, Penfold LM, Hostetler JA, Oil MK, and **O'Brien SJ**: Genetic Restoration of the Florida Panther. *Science*. 329: 1642-1645, 2010. (LGD)

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

**Ramamurthi KS**: Signal transduction: bacterial thermometer works by measuring membrane thickness. *Curr. Biol.* 20: R707-R709, 2010. (LMB)

Zhu X and **Cheng SY**: New insights into regulation of lipid metabolism by thyroid hormone. *Curr. Opin. Endocrinol. Diabetes Obes.* 17: 408-413, 2010. (LMB)

Mandin P and **Gottesman S**: Integrating anaerobic/aerobic sensing and the general stress response through the ArcZ small RNA. *EMBO J.* 29: 3094-3107, 2010. (LMB)

### **Cancer & Developmental Biology Lab. - Alan Perantoni, Ph.D.**

There were no submissions reported this month.

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

Redon CE, Nakamura AJ, Zhang YW, Ji JJ, **Bonner WM**, Kinders RJ, Parchment RE, **Doroshov JH**, and **Pommier Y**: Histone gammaH2AX and poly(ADP-ribose) as clinical pharmacodynamic biomarkers. *Clin. Cancer Res.* 16: 4532-4542, 2010. (LMP)

Suzuki S, Maddali K, Hashimoto C, Urano E, Ohashi N, Tanaka T, Ozaki T, Arai H, Tsutsumi H, Narumi T, Nomura W, Yamamoto N, **Pommier Y**, Komano JA, and Tamamura H: Peptidic HIV integrase inhibitors derived from HIV gene products: structure-activity relationship studies. *Bioorg. Med. Chem.* 18: 6771-6775, 2010. (LMP)

Nakamura AJ, Redon CE, and **Bonner WM**: gammaH2AX: applications for the evaluation of telomerase-based cancer therapy. *Cell Cycle* 17: 3385-3386, 2010. (LMP)

Chen M, Voeller D, **Marquez VE**, Kaye FJ, **Stegg PS**, **Giaccone G**, and Zajac-Kaye M: Enhanced growth inhibition by combined DNA methylation/HDAC inhibitors in lung tumor cells with silenced CDKN2A. *Int. J. Oncol.* 37: 963-971, 2010. (LMP)

Redon CE, Dickey JS, Nakamura AJ, Kareva IG, Naf D, Newsheer S, Kryston TB, **Bonner WM**, Georgakilas AG, and Sedelnikova OA: Tumors induce complex DNA damage in distant proliferative tissues in vivo. *Proc. Natl. Acad. Sci. USA*. In press. (LMP)

Kovalchuk O, Zemp FJ, Filkowski J, Altamirano A, Dickey JS, Jenkins-Barker G, Marino SA, Brenner DJ, **Bonner WM**, and Sedelnikova OA: microRNAome changes in bystander three-dimensional human tissue models suggest priming of apoptotic pathways. *Carcinogenesis*. In press. (LMP)

Lockman PR, Mittapalli RK, Taskar KS, Rudraraju V, Gril B, Bohn KA, Adkins CE, Roberts A, Thorsheim HR, Gaasch JA, Huang S, Palmieri D, **Steeg PS**, and Smith QR: Heterogeneous blood-tumor barrier permeability determines drug efficacy in mouse brain metastases of breast cancer. *Clin. Cancer Res*. In press. (LMP)

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

There were no submissions reported this month.

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

Bussard KM, Boulanger CA, Booth BW, Bruno RD, and **Smith GH**: Reprogramming Human Cancer Cells in the Mouse Mammary Gland. *Cancer Res*. 70: 6336-6343, 2010. (MBTL)

Booth BW, Boulanger CA, Anderson LH, and **Smith GH**: The normal mammary microenvironment suppresses the tumorigenic phenotype of MMTV-neu transformed mammary tumor cells. *Oncogene*. In press. (MBTL)

Bruno RD and **Smith GH**: Functional Definition of Stem Cell Activity in the Mouse Mammary Gland. *Stem Cell Reviews and Reports*. In press. (MBTL)

### **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.**

**Tessarollo L:** Brain disorders: getting 'Down' to the gene. Nat. Neurosci. 13: 909-910, 2010. (MCGP)

Bai Y, Shi Z, Zhuo Y, Liu J, Malakhov A, Ko E, Burgess K, Schaefer H, Esteban PF, **Tessarollo L**, and Saragovi HU: In glaucoma the up-regulated truncated TrkC.T1 receptor isoform in glia causes increased TNF- $\alpha$  production, leading to retinal ganglion cell death. Investigative ophthalmology & visual science. In press. (MCGP)

Satyanarayana A, Gudmundsson KO, Chen X, Coppola V, **Tessarollo L**, **Keller JR**, and **Hou SX**: RapGEF2 is essential for embryonic hematopoiesis but dispensable for adult hematopoiesis. Blood. In press. (MCGP)

Nelson TM, Lopezjimenez ND, **Tessarollo L**, Inoue M, Bachmanov AA, and Sullivan SL: Taste function in mice with a targeted mutation of the pkd1l3 gene. Chem. Senses. 35: 565-577, 2010. (MCGP)

Arévalo JC, Wu SH, Takahashi T, Zhang H, Yu T, Yano H, Milner TA, **Tessarollo L**, Ninan I, Arancio O, Chao MV: The ARMS/Kidins220 scaffold protein modulates synaptic transmission. *Mol. Cell. Neurosci.* 45: 92-100, 2010. (MCGP)

Zeng X, Chauhan C, and **Hou SX**: Characterization of midgut stem cell- and enteroblast-specific Gal4 lines in drosophila. *Genesis (New York, N.Y. : 2000).* 1-6, 2010. (MCGP)

**Hou SX**: Intestinal stem cell asymmetric division in the Drosophila posterior midgut. *J. Cell. Physiol.* 224: 581-584, 2010. (MCGP)

Wang P and **Hou SX**: Regulation of intestinal stem cells in mammals and Drosophila. *J. Cell. Physiol.* 222: 33-37, 2010. (MCGP)

Pemov A, Park C, **Reilly KM**, and Stewart DR: Evidence of perturbations of cell cycle and DNA repair pathways as a consequence of human and murine NF1-haploinsufficiency. *BMC Genomics.* 11: 194, 2010. (MCGP)

Turbyville TJ, Gürsel DB, Tuskan RG, Walrath JC, Lipschultz CA, Lockett SJ, Wiemer DF, Beutler JA, and **Reilly KM**: Schweinfurthin A selectively inhibits proliferation and Rho signaling in glioma and neurofibromatosis type 1 tumor cells in a NF1-GRD-dependent manner. *Mol. Cancer Ther.* 9: 1234-1243, 2010. (MCGP)

Chen S, Sanford CA, Sun J, Choi V, **Van Dyke T**, Samulski RJ, and Rathmell WK: VHL and PTEN loss coordinate to promote mouse liver vascular lesions. *Angiogenesis.* 13: 59-69, 2010. (MCGP)

Kuznetsov SG, Chang S, and **Sharan SK**: Functional analysis of human BRCA2 variants using a mouse embryonic stem cell-based assay. *Methods Mol. Biol.* 653: 259-280, 2010. (MCGP)

### **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.**

Li M, Gustchina A, Rasulova FS, Melnikov EE, **Maurizi MR**, Rotanova TV, **Dauter Z**, and **Wlodawer A**: Structure of the N-terminal fragment of Escherichia coli Lon protease. *Acta Crystallogr D Biol Crystallogr.* 66: 865-873, 2010. (MCL)

## **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.**

Abend JR, Uldrick T, and **Ziegelbauer JM**: Regulation of TWEAKR expression by KSHV microRNA prevents TWEAK-induced apoptosis and inflammatory cytokine expression. *J. Virol.* In press. (HAMB)

Daniels SI, Davis DA, Soule EE, Stahl SJ, Tebbs IR, Wingfeld P, and **Yarchoan R**: The initial step in human immunodeficiency virus type I GagProPol processing can be regulated by reversible oxidation. *PLoS ONE.* In press. (HAMB)

## **Basic Research Laboratory**

There were no submissions reported this month.

## **Emeritus Scientists**

### **Victor Marquez**

Toth Z, Maglente DT, Lee SH, Lee HR, Wong LY, Brulois KF, Lee S, Buckley JD, Laird PW, **Marquez VE**, and Jung JU: Epigenetic analysis of KSHV latent and lytic genomes. *PLoS Pathogens.* 6(7): 1-17, 2010. (CBL)