

## CCR MANUSCRIPT NOTIFICATION (AUGUST 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.**

Garg H, Salcedo R, **Trinchieri G**, and **Blumenthal R**: Improved non viral cancer suicide gene therapy using surviving promoter driven mutant BAX. *Cancer Gene Therapy*. In press. (CCRNP)

Paliy M, Melnik R, and **Shapiro BA**: Molecular dynamics study of the RNA ring nanostructure: A phenomenon of self-stabilization. *J. Phys. Biol.* In press. (CCRNP)

Spirollari J, Wang JTL, Zhang K, Bellofatto V, Park Y, and **Shapiro BA**: Predicting consensus structures for RNA alignments via pseudo-energy minimization. *Bioinformatics Biol. Insights*. 3: 51-69, 2009. (CCRNP)

Yeung ML, Bennasser Y, Watashi K, Le SY, Houzet L, and Jeang KT: Pyrosequencing of small non-coding RNAs in HIV-1 infected cells: Evidence for the processing of a viral-cellular double-stranded RNA hybrid. *Nucleic Acids Res.* In press. (CCRNP; PI: **Blumenthal R**)

Zhang M-Y, Feng Y, Wang Y, and **Dimitrov DS**: Characterization of a chimeric monoclonal antibody against the insulin-like growth factor-I receptor. *mAbs*. In press. (CCRNP)

### **Laboratory of Population Genetics - Kenneth Buetow, Ph.D.**

There were no submissions reported this month.

### **Molecular Discovery Program - R. Andrew Byrd, Ph.D.**

#### **Laboratory of Medicinal Chemistry - Victor Marquez, Ph.D.**

Peach ML and **Nicklaus MC**: Combining docking with pharmacophore filtering for improved virtual screening. *J Cheminformatics*. 1(6): 1-13, 2009. (LMC)

Kessel JJ, Eidahl JO, Shkriabai N, Zhao Z, McKee CJ, Hess S, **Burke Jr TR**, and Kvaratskhelia M: An allosteric mechanism for inhibiting HIV-1 integrase with a small molecule. *Molecular Pharmacology*. In press. (LMC)

Philosof-Mazor L, Volinsky R, Jopp J, **Blumberg P**, Rapaport H, **Marquez VE**, and Jelinek R: Lipid-modulated pharmacophore nanorods assembled at the air/water interface. *Chem Phys Chem*. In press. (LMC)

Ludek OR and **Marquez VE**: A greener enantioselective synthesis of the antiviral agent North-methanocarbathymidine (N-MCT) from 2-deoxy-D-ribose. *Tetrahedron*. In press. (LMC)

Fiskus W, Wang Y, Sreekumar A, Buckley KM, Shi H, Jillella A, Ustun C, Rao R, Fernandez P, Chen J, Balusu R, Koul S, Atadja P, **Marquez VE**, and Bhalla KN: Combined epigenetic therapy with the histone methyltransferase EZH2 inhibitor 3-deazaneplanocin A and the histone deacetylase inhibitor panobinostat against human AML cells. *Blood*. In press. (LMC)

Boyer PL, Vu BC, Ambrose Z, Julias JG, Warneck S, Liao CZ, Meier C, **Marquez VE**, and **Hughes SH**: The nucleoside analogue D-carba T blocks HIV-1 reverse transcription. *J Med Chem*. 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 YX**: A method for helical RNA global structure determination in solution using small angle x-ray scattering and NMR measurements. *J. Mol. Biol.* In press. (SBL)

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

There were no submissions reported this month.

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

Ogawa M, Kosaka N, Longmire MR, Urano Y, **Choyke PL**, and Kobayashi H: Fluorophore-quencher based activatable targeted optical probes for detecting in vivo cancer metastases. *Mol Pharm.* 6(2): 386-395, 2009. (MIP)

Choudhary S, Sudarshan S, **Choyke PL**, and Prasad SR: Renal cell carcinoma: recent advances in genetics and imaging. *Semin Ultrasound CT MR.* 30(4): 315-325, 2009. (MIP)

Bumb A, **Brechbiel MW**, **Choyke PL**, Fugger L, Eggeman A, Prabhakaran D, Hutchinson J, and Dobson PJ: Synthesis and characterization of ultra-small superparamagnetic iron oxide nanoparticles thinly coated with silica. *Nanotechnology.* 19(33): 335601, 2008. (MIP)

Giesel FL, Mehndiratta A, Locklin J, McAuliffe MJ, White S, **Choyke PL**, Knopp MV, Wood BJ, Haberkorn U, and von Tengg-Kobligk H: Image fusion using CT, MRI and PET for treatment planning, navigation and follow up in percutaneous RFA. *Exp Oncol.* 31(2): 106-114, 2009. (MIP)

Kobayashi H, Ogawa M, Kosaka N, **Choyke PL**, and Urano Y: Multicolor imaging of lymphatic function with two nanomaterials: quantum dot-labeled cancer cells and dendrimer-based optical agents. *Nanomed.* 4(4): 411-419, 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.**

Pisle ST and **Figg WD**: Antiandrogens in the 21st Century. *Cancer Biol. Ther.* In press. (MOB)

Ajiboye S, Sissung T, Sharif N, and **Figg WD**: More than an Accessory: Implications of Type III Transforming Growth Factor Beta Loss in Prostate Cancer. *Br. J. Urol.* In press. (MOB)

Sissung TM, Thordardottir S, Gardner ER, and **Figg WD**: Current Status of Thalidomide and Revlimid in the Treatment of Metastatic Prostate Cancer. *Anticancer Agents Med. Chem.* 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.**

Bartesaghi A and **Subramaniam S**: Membrane protein structure determination using cryo-electron tomography and 3D image averaging. *Curr. Opin. Struct. Biol.* In press. (LCB)

Bennett AE, Narayan K, Shi D, Hartnell L, Gousset K, He H, Lowekamp B C, Yoo TS, Bliss D, **Freed EO** and **Subramaniam S**: Ion-abrasion scanning electron microscopy reveals surface-connected tubular conduits in HIV-infected macrophages. *PLoS Pathogens.* 5: e1000591, 2009. (LCB)

Chen KG, Valencia JC, Gillet J-P, **Hearing VJ**, and **Gottesman MM**: Involvement of ABC Transporters in Melanogenesis and the Development of Multidrug Resistance of Melanoma. Pigment Cell Melanoma Res. In press. (LCB)

Hall MD, Handley MD, and **Gottesman MM**: Is resistance useless? Multidrug resistance and collateral sensitivity. Trends Pharmacol Sci. In press. (LCB)

Milne JLS and **Subramaniam S**: Cryo-electron tomography of bacteria: progress, challenges and future prospects. Nature Rev Microbiol. 7: 666-675, 2009. (LCB)

Turk D, Hall MD, Chu BF, Ludwig JA, Fales HM, **Gottesman MM**, and Szakacs G: Identification of compounds selectively killing multidrug resistant cancer cells. Cancer Res. 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.**

**Retroviral Replication Laboratory - Stephen Hughes, Ph.D.**  
There were no submissions reported this month.

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

Liu YL, Borchert G, Donald S, Diwan BA, Anver M, and **Phang JM**: Proline oxidase functions as a mitochondrial tumor suppressor in human cancers. Cancer Res. In press. (LCC)

Benbrahim-Tallaa L, Tokar EJ, Diwan BA, Dill AL, Coppin J-F, and **Waalkes MP**: Cadmium malignantly transforms normal human breast epithelial cells into a basal-like phenotype. Environ. Health Pers. In press. (LCC)

Liu J, Yu L, Coppin JF, Tokar EJ, Diwan BA, and **Waalkes MP**: Fetal arsenic exposure appears to facilitate endocrine disruption by postnatal diethylstilbestrol in neonatal mouse adrenal. *Chem. Biol. Interact.* 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.**

Finley D, Clayman R, and **Linehan WM**: Immunohistochemical Basis for Adjuvant Anti-Angiogenic Targeted Therapy for Renal Carcinoid: Initial Case Report. *Urol Oncol.* In press. (UOB)

**Linehan WM**: Molecular Diagnosis and Therapy of Kidney Cancer. *Annu Rev Med.* In press. (UOB)

**Linehan WM**: The Genetic Basis of Bilateral Renal Cancer: Implications for Evaluation and Management. *J Clin Oncol.* In press. (UOB)

Yang Y, Valera VA, Padilla-Nash HM, Vocke CD, Vira MA, Abu-Asab MS, Sourbier C, Xu W, Bratslavsky G, **Tsokos M**, **Merino M**, **Pinto PA**, **Ried T**, **Neckers LM**, and **Linehan WM**: Mutant Fumarate Hydratase and Aberrant Energy Metabolic Pathways in the First Human HLRCC Cell Model UOK 262: Possible Implications for Prognosis and Therapeutic Targeting. *Cancer Genetics and Cytogenetics.* 196(1): 45-55, 2010. (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**

Sosa MS, Lewin NE, Choi SH, **Blumberg PM** and Kazanietz MG: Biochemical characterization of hyperactive beta2-chimaerin mutants revealed an enhanced exposure of C1 and RacGAP domains. *Biochemistry.* In press. (LCBG)

Toth A, **Blumberg PM** and Boczan J: Anandamide and the vanilloid receptor (TRPV1). Vitamins and Hormones. 81: 389-419, 2009. (LCBG)

Ohashi N, Nomura W, Kato M, Narumi T, Lewin NE, **Blumberg PM** and Tamamura H: Synthesis of protein kinase Cdelta C1b domain by the native chemical ligation methodology and characterization of its folding and ligand binding. J. Peptide Sci. In press. (LCBG)

Zhang KE, Kagan D, DuBois W, Robinson R, Bliskovsky V, Vass WC, Zhang S and **Mock BA**: Mndal, a new interferon-inducible family member, is highly polymorphic, suppresses cell growth and may modify plasmacytoma susceptibility. Blood. In press. (LCBG)

**Blumberg PM**, Kedei N, Lewin NE, Yang D, Tao J, Telek A and Geczy T: PKC isozymes-receptors for diacylglycerol and phorbol esters. In: Protein Kinase C in Cancer Signaling and Therapy. Kazanietz MG (Ed.). Springer Publishing Co., N.Y. In press. (LCBG)

Philosof-Mazor L, Volinsky R, Joop J, Rapaport H, **Blumberg PM**, **Marquez VE** and Jelinek R: Lipidmodulated pharmacophore nanofibers assembled at the air/water interface. Chem. Phys. Chem. In press. (LCBG)

### **Radiation Biology Branch - James Mitchell, Ph.D.**

There were no submissions reported this month.

### **Laboratory of Cell and Developmental Signaling - Debbie Morrison, Ph.D.**

There were no submissions reported this month.

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

Horvath A, Korde L, Greene MH, Libe R, Osorio P, Faucz FR, Raffin-Sanson ML, Tsang KM, Drori-Herishanu L, Patronas Y, Remmers EF, Nikita ME, Moran J, Greene J, Nesterova M, **Merino MJ**, Bertherat J, and Stratakis CA: Functional phosphodiesterase 11A mutations may modify the risk of familial and bilateral testicular germ cell tumors. Cancer Res. 69(13): 5301-5306, 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.**

**Kreitman RJ, Hassan R, FitzGerald DJ, and Pastan I:** Phase I trial of continuous infusion anti-mesothelin recombinant immunotoxin SS1P. *Clin. Cancer Res.* 15: 5274-5279, 2009. (LMB)

**Ho M and Pastan I:** Display and selection of scFv antibodies on HEK-293T cells. *Methods Mol. Biol.* 562: 99-113, 2009. (LMB)

Krishna S, Orosz L, Sneppen K, **Adhya S**, and Semsey S: Relation of intracellular signal levels and promoter activities in the gal regulon of *Escherichia coli*. *J. Mol Biol.* 391: 671-678, 2009. (LMB)

Camberg JL, Hoskins JR, and **Wickner S:** ClpXP protease degrades the cytoskeletal protein, FtsZ, and modulates FtsZ polymer dynamics. *Proc. Natl. Acad. Sci. U.S.A.* 106: 10614-10619, 2009. (LMB)

**Kreitman RJ:** Recombinant immunotoxins for the treatment of chemoresistant hematologic malignancies. *Curr. Pharm. Des.* 15: 2652-2664, 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.**

Guirouilh-Barbat J, Antony S, and **Pommier Y:** Zalypsis (PM00104) is a potent inducer of gamma-H2AX foci and reveals the importance of the C ring of trabectedin for transcription-coupled repair inhibition. *Mol. Cancer Ther.* 8: 2007-2014, 2009. (LMP)

Guirouilh-Barbat J, Zhang YW, and **Pommier Y:** Induction of glutathione-dependent DNA double-strand breaks by the novel anticancer drug brostallicin. *Mol. Cancer Ther.* 8: 1985-1994, 2009. (LMP)

Pfister TD, Reinhold WC, Agama K, Gupta S, Khin SA, Kinders RJ, Parchment RE, Tomaszewski JE, **Doroshov JH**, and **Pommier Y:** Topoisomerase I levels in the NCI-60 cancer cell line panel determined by validated ELISA and microarray analysis and correlation with indenoisoquinoline sensitivity. *Mol. Cancer Ther.* 8: 1878-1884, 2009. (LMP)

Orina JN, Calcagno AM, Wu CP, Varma S, Shih J, Lin M, Eichler G, Weinstein JN, **Pommier Y, Ambudkar SV, Gottesman MM**, and Gillet JP: Evaluation of current methods used to analyze the expression profiles of ATP-binding cassette transporters yields an improved drug-discovery database. *Mol. Cancer Ther.* 8: 2057-2066, 2009. (LMP)

Juhasz A, Ge Y, Markel S, Chiu A, Matsumoto L, van Balgooy J, Roy K, and **Doroshov JH**: Expression of NADPH oxidase homologues and accessory genes in human cancer cell lines, tumours and adjacent normal tissues. *Free Radic. Res.* 43: 523-532, 2009. (LMP)

Cardinale S, Bergmann JH, Kelly D, Nakano M, Valdivia MM, Kimura H, Masumoto H, **Larionov V**, and Earnshaw WC: Hierarchical inactivation of a synthetic human kinetochore by a chromatin modifier. *Mol. Biol. Cell.* In press. (LMP)

Dickey JS, Redon CE, Nakamura AJ, Baird BJ, Sedelnikova OA, and **Bonner WM**: H2AX: functional roles and potential applications. *Chromosoma.* In press. (LMP)

Dickey JS, Baird BJ, Redon CE, Sokolov MV, Sedelnikova OA, and **Bonner WM**: Intercellular communication of cellular stress monitored by  $\{\gamma\}$ -H2AX induction. *Carcinogenesis.* In press. (LMP)

Palmieri D, Lockman PR, Thomas F, Hua E, Herring J, Hargrave E, Johnson M, Flores N, Qian Y, Vega-Valle E, Taskar K, Rudraraju V, Mittipalli R, Gaasch J, Liewehr DJ, Davis S, Riley J, Walkerm R, Bronder JL, Feigenbaum L, Steinberg SM, **Camphausen K**, **Meltzer PS**, Richon V, Smith QR and **Steeg PS**: Vorinostat inhibits brain metastatic colonization in a model of triple-negative breast cancer. *Clin. Cancer Res.* In press. (LMP)

Palmieri D, Fitzgerald D, Shreeve SM, Hua E, Bronder JL, Weil RJ, Davis S, Stark AM, **Merino MJ**, Kurek R, Mehdorn HM, Davis G, Steinberg SM, **Meltzer PS**, Aldape K, and **Steeg PS**: Analyses of resected human brain metastases of breast cancer reveal the association between up-regulation of hexokinase and poor prognosis. *Mol. Cancer Res.* 7: 1438-1445, 2009. (LMP)

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

There were no submissions reported this month.

### **Laboratory of Cellular and Molecular Biology - Larry Samelson, M.D.**

There were no submissions reported this month.

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

Boehm AL, Higgins J, Franzusoff A, **Schlom J**, and **Hodge JW**: Concurrent vaccination with two distinct vaccine platforms targeting the same antigen generates phenotypically and functionally distinct T-cell populations. *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.**

Moore SP and **Garfinkel DJ**: Functional Analysis of N-Terminal Residues of Ty1 Integrase. *J. Virology*. 83: 9502-9511, 2009. (GRCBL)

Matsuda E and **Garfinkel D**: Posttranslational Interference of Ty1 Retrotransposition by Antisense RNAs. *Proc. Natl. Acad. Sci. USA*. In press. (GRCBL)

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

Coulouarn C, Factor VM, Andersen JB, Durkin ME, and **Thorgeirsson SS**: Loss of miR-122 expression in liver cancer correlates with suppression of the hepatic phenotype and gain of metastatic properties. *Oncogene*. In press. (LEC)

Zimonjic DB, Zhou X, Lee JS, Ullmannova-Benson V, Tripathi V, **Thorgeirsson SS**, and **Popescu NC**: Acquired genetic and functional alterations associated with transforming growth factor beta type I resistance in Hep3B human hepatocellular carcinoma cell line. *J Cell Mol Med*. In press. (LEC)

Woo HG, Park ES, Lee JS, Lee YH, Ishikawa T, Kim YJ, and **Thorgeirsson SS**: Identification of potential driver genes in human liver carcinoma by genomewide screening. *Cancer Res*. 69(9): 4059-4066, 2009. (LEC)

Ishibe S, Karihaloo A, Ma H, Zhang J, Marlier A, Mitobe M, Togawa A, Schmitt R, Czyczk J, Kashgarian M, Geller DS, **Thorgeirsson SS**, and Cantley LG: Met and the epidermal growth factor receptor act cooperatively to regulate final nephron number and maintain collecting duct morphology. *Development*. 136(2): 337-345, 2009. (LEC)

### **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.**

**Reilly KM:** Brain tumor susceptibility: the role of genetic factors and uses of mouse models to unravel risk. *Brain Pathol.* 19: 121-131, 2009. (MCGP)

Walrath JC, Fox K, Truffer E, Alvord GW, Quiñones OA, and **Reilly KM:** Chr 19(A/J) modifies tumor resistance in a sex- and parent-of-origin-specific manner. *Mamm. Genome.* 20: 214-223, 2009. (MCGP)

Carim-Todd L, Bath KG, Fulgenzi G, Yanpallewar S, Jing D, Barrick CA, Becker J, Buckley H, Dorsey SG, Lee FS, and **Tessarollo L:** Endogenous truncated TrkB.T1 receptor regulates neuronal complexity and TrkB kinase receptor function in vivo. *J. Neurosci.* 29: 678-685, 2009. (MCGP)

Yang J, Siao CJ, Nagappan G, Marinic T, Jing D, McGrath K, Chen ZY, Mark W, **Tessarollo L,** Lee FS, Lu B, and Hempstead BL: Neuronal release of proBDNF. *Nat. Neurosci.* 12: 113-115, 2009. (MCGP)

Southon E and **Tessarollo L:** Manipulating mouse embryonic stem cells. *Methods Mol. Biol.* 530: 165-185, 2009. (MCGP)

Reid SW and **Tessarollo L:** Isolation, microinjection and transfer of mouse blastocysts. *Methods Mol. Biol.* 530: 269-285, 2009. (MCGP)

**Tessarollo L,** Palko ME, Akagi K, and Coppola V: Gene targeting in mouse embryonic stem cells. *Methods Mol. Biol.* 530: 141-164, 2009. (MCGP)

Singh SR and **Hou SX:** Multipotent stem cells in the Malpighian tubules of adult *Drosophila melanogaster*. *J. Exp. Biol.* 212: 413-423, 2009. (MCGP)

Kuznetsov SG, Haines DC, Martin BK, and **Sharan SK:** Loss of rad51c leads to embryonic lethality and modulation of Trp53-dependent tumorigenesis in mice. *Cancer Res.* 69: 863-872, 2009. (MCGP)

**Sharan SK,** Thomason LC, Kuznetsov SG, Court DL: Recombineering: a homologous recombination-based method of genetic engineering. *Nat Protoc.* 4: 206-223, 2009. (MCGP)

Cullen M, Seaman S, Chaudhary A, Yang MY, Hilton MB, Logsdon D, Haines DC, **Tessarollo L,** and **St Croix B:** Host-derived tumor endothelial marker 8 promotes the growth of melanoma. *Cancer Res.* 69: 6021-6026, 2009. (MCGP)

Kuslak SL and **Van Dyke T**: Advances in Prostate Cancer Research--AACR Special Conference In Cancer Research. IDrugs : the investigational drugs journal. 12: 159-162, 2009. (MCGP)

**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.