



# RETRO-ACTIVE NEWS

Newsletter of the Center for Retrovirus Research & the Comprehensive Cancer Center Oncogenic Virus Program, The Ohio State University.  
Volume No. 24, Winter, 2006

## **PATRICK GREEN NAMED CENTER DIRECTOR & CCC PROGRAM CO-LEADER**

Patrick Green, PhD, has been named Director of the Center for Retrovirus Research, and co-leader of the OSU Comprehensive Cancer Center's Viral Oncogenesis Program, a role he shares with E. Antonio Chiocca, MD, PhD.

Patrick Green replaces Lawrence Mathes, PhD, who led or co-led the program for nearly 20 years and remains a very active member. Mathes was recently named Associate Dean for Research in the OSU College of Veterinary Medicine.

## **NEW GRANT AWARDS TO CENTER FACULTY**

Kathleen Boris-Lawrie, Principal investigator, National Institutes of Health, R01CA108882-01  
**Translational Control of Retroviral Unspliced mRNA**

Patrick Green, Principal investigator, National Institutes of Health, R01CA77556-06  
**Molecular Determinants of HTLV Cellular Transformation**

Mamuka Kvaratskhelia Principal investigator, National Institutes of Health, R01AI062520-01  
**Structural Studies of HIV-1 Integration**

Mamuka Kvaratskhelia Principal investigator, American Cancer Society. MBC-110653  
**HIV-1 Integrase Structure as a Therapeutic Target**

Maria Neff, National Institutes of Health F31 predoctoral fellowship to Tina Tran  
**Methamphetamine and astrocyte function**

## **CONGRATULATIONS TO NEW GRADUATE**

**Ihab Younis, PhD** (Green Lab) Ohio State Biochemistry program. PhD completed August 2005.  
Present position: Postdoctoral fellow with Gideon Dreyfuss, Univ Penn. Philadelphia.

## **RECENT PUBLICATIONS**

Arnold J, Younis I, Yamamoto B, Phipps AJ, Lairmore MD, Green PL. **Enhancement of infectivity and persistence *in vivo* by HBZ, a natural antisense coded protein of HTLV-1** Blood In Press.

Hiraragi H, Michael B, Nair A, Silic-Benussi M, Ciminale V, Lairmore M. **Human T-lymphotropic virus type 1 mitochondrion-localizing protein p13II sensitizes Jurkat T cells to Ras-mediated apoptosis.** J Virol. 2005 Aug;79(15):9449-57.

Kim, S-j, Nair, A.M., Fernandez, S., Mathes, L., Lairmore, M.D. **Enhancement of LFA-1-Mediated T-Cell Adhesion by Human T-Lymphotropic Virus Type 1 p12<sup>I</sup>** Journal of Immunology, In Press.

Lairmore MD, Fujii M. **12th International Conference on Human Retrovirology: HTLV and Related Retroviruses.** Retrovirology. 2005 Oct 4;2:61.

- Lairmore MD, Silverman L, Ratner L. **Animal models for human T-lymphotropic virus type 1 (HTLV-1) infection and transformation.** *Oncogene*. 2005 Sep 5;24(39):6005-15.
- Lairmore MD, Montgomery A. **Isolation and confirmation of human T-cell leukemia virus type 2 from peripheral blood mononuclear cells.** *Methods Mol Biol*. 2005;304:113-23.
- Liu Y, Kvaratskhelia M, Hess S, Qu Y, Zou Y. **Modulation of replication protein A function by its hyperphosphorylation-induced conformational change involving DNA binding domain B.** *J. Biol. Chem*. 2005 Sep 23;280(38):32775-83.
- Silverman LR, Phipps AJ, Montgomery A, Fernandez S, Tsukahara T, Ratner L, Lairmore MD. **In vivo analysis of replication and immunogenicity of proviral clones of human T-lymphotropic virus type 1 with selective envelope surface-unit mutations.** *Blood*. 2005 Nov 15;106(10):3602-8.
- Xie L and Green PL. **Envelope is the major viral determinant of the distinct in vitro cellular transformation tropism of HTLV-1 and HTLV-2.** *J Virol* 79: 14536-14545, 2005.
- Xie L, Yamamoto B, Haoudi A, Semmes OJ, Green PL. **The PDZ domain of HTLV-1 Tax promotes virus mediated T-cell proliferation in vitro and persistence in vivo.** *Blood* In Press.
- Yilmaz, A., Bolinger, C., Boris-Lawrie, K. **Retrovirus Translation Initiation: Issues and Hypotheses Derived from Study of HIV-1.** *Current HIV Research*, In Press.
- Yilmaz, A., Fernandez, S., Lairmore, M.D, Boris-Lawrie, K. **Coordinated enhancement of transgene transcription and translation in a lentiviral vector.** *Retrovirology*, 2006, 3:13.
- Younis I, Boris-Lawrie K, Green PL. **Human T-cell leukemia virus ORF II p28 encodes a post-transcriptional repressor that is recruited at the level of transcription.** *J Virol* 80:181-191, 2006.
- Younis I, Yamamoto B, Phipps A, Green P. **Human T-cell leukemia virus type 1 expressing non-overlapping Tax and Rex genes replicates and immortalizes primary human T-lymphocytes but fails to replicate and persist *in vivo*.** *J Virol* 79: 14473-14481, 2005.
- Yoder, K., Sarasin, A., Kraemer, K., McIlhatton, M., Bushman, F., Fishel, R. **The DNA Repair Genes XPB and XPD Defend Cells from Retroviral Infection.** *PNAS*, in press

### UPCOMING MEETINGS and SEMINAR GUESTS

- **Cold Spring Harbor Lab *Retroviruses* Meeting**, May 22-27, 2006, Cold Spring Harbor, NY.  
[www.cshl.org/meetings](http://www.cshl.org/meetings)
- **American Society for Cell Biology summer meeting *Cell Biology of HIV-1 and other Retroviruses***, July 20-23, 2006, Atlanta, Georgia. [www.ascb.org](http://www.ascb.org)
- **Jaquelin P. Dudley, PhD** Professor, University of Texas-Austin, April 20, 2006 4 pm Wexner Auditorium, Distinguished Research Career Seminar: Gene regulation and cancer: lessons from mouse mammary tumor virus; and Manipulation of the immune response by MMTV.
- **Daria Hazuda, PhD** Vice President of Merck, March 1, 2006. 11:30 am at 111 Parks Hall.  
"HIV-1 Integrase Inhibitors: Past, Present and Future?"

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