

# CAMB News from the

## Cell and Molecular Biology Graduate Group

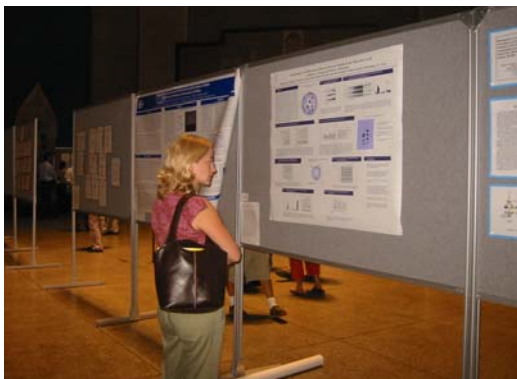
### CAMB Holiday Party

Please join us for the CAMB holiday Party:

Dec 13th, 4:00 - 6:00 PM, BRB Lobby



### Photos from the 2005 CAMB Symposium



### 2005 CAMB Symposium Poster Winners:

Congratulations to

**Julianne Caviston,**  
a 4th year CAMB - CBP Student

**Mike Diem,**  
a 7th year CAMB - MVP Student

**Maria Golson,**  
a 4th year CAMB - GGR Student

**Yasuhiko Irie,**  
a 5th year CAMB - CBP Student

### Admission Season 2006

The 2006 PhD admission weekends will be:

January 19<sup>th</sup> – 21<sup>st</sup>

February 9<sup>th</sup> – 11<sup>th</sup>

March 2<sup>nd</sup> – 5<sup>th</sup>

Faculty - the interview times are:

10-10:30, 10:45-11:15, 2:15-2:45, & 3-3:30.

Please put these dates on your calendar.

## 2005 Nachmias/Thimann Award

Congratulations to

**Julie Lefebvre**

a recent CAMB - DB graduate

She was awarded the 2005 Nachmias/Thimann Award for excellence in graduate research from the Department of Cell & and Developmental Biology

## Chief of the Division of Rheumatology

Congratulations to

**Gary Koretzky**

Leonard Jarett Professor of Pathology and Laboratory Medicine

He has been has been appointed Chief of the Division of Rheumatology at HUP.

## Cogan Award

Congratulations to

**Joshua Dunaief**

Assistant Professor of Ophthalmology

He was awarded the Cogan Award from the Association for Research in Vision and Ophthalmology.

## The Faculty and Students of CAMB would like to thank the following Sponsors for their support of the 2005 Symposium:

Applied Biosystems (Tamara Jones)

B&B Microscopes, Ltd. (Brian Miller)

Beckman Coulter (Kathy Maclin)

Cell Signaling Technology (Carrie Brown)

C&R Lab Equipment (Susan Cassanelli)

Clontech (Michele Sakach)

Denville Scientific Products, Inc. (Theresa Ruch)

Integrated DNA Technologies (Mitchell Gore)

New England BioLabs, Inc. (Donald Comb)

Open Biosystems (Laura Sailor)

Optical Apparatus Co. (Kristen Kelley)

Perkin Elmer Life Sciences (Stella Ponzio)

QRP Inc. (Laurie Casselman)

The Abramson Family Cancer Research Institute

The Cell and Molecular Biology Training Grant

The Center for Aids Research

The Developmental Biology Training Grant

The Department of Cell and Developmental Biology

The Department of Genetics

The Department of Medicine

The Department of Microbiology

Department of Pathology & Laboratory Medicine

The Department of Physiology

The Gene Therapy for Cystic Fibrosis & Genetic Diseases Training Grant

The Immunobiology of Normal and Neoplastic Lymphocytes Training Grant

The Joseph Stokes Jr. Research Institute

## Distinguished Andrologist Award

Congratulations to

**Norman Hecht**

William Shippen Jr. Professor of Human Reproduction

He is the recipient of the 2006 Distinguished Andrologist Award presented by the American Society of Andrology.

## August Graduation

10 CAMB students received PhDs in August

### Allison Alcivar

Advisor: Xiaolu Yang

*"DEDD; on the Cusp of Life: Modulators of Death Receptor Signaling"*

### Kshitiz Chaudhary

Advisor: David S. Roos

*"Purine transport and salvage in Apicomplexan parasites"*

### Andrew Gladden

Advisor: J. Alan Diehl

*"The Role of Cyclin D1 Nuclear Localization in B Cell Lymphomagenesis"*

### Phuc Le

Advisor: Klaus Kaestner

*"Elucidating Genetic Regulatory Networks With High-Throughput Data"*

### Julie Lefebvre

Advisor: Michael Granato

*"The Neuromuscular Synapse Unplugged: Connecting Motor Axon Guidance & Synapse Formation"*

### Jillian Licata

Advisor: Ronald Harty

*"Determination of the role of viral and host factors in the budding of Ebola virus VP40 virus-like particles."*

### Kyle Mansfield

Advisor: Celeste Simon

*"The role of the mitochondria in cellular oxygen sensing"*

### Sagi Shapira

Advisor: Christopher A. Hunter

*"The NF-kappaB Signaling Pathway: Immunoregulation and Immune Evasion During Toxoplasmosis"*

### Alejandro Villarino

Advisor: Christopher A. Hunter

*"Understanding the anti-inflammatory properties of Interleukin-27 during infection and disease"*

### Ken Wang

Advisor: Dwight Stambolian

*"Genetic and Phenotypic Analysis of TCM, a Mutation Affecting Early Embryonic Eye Development"*

## Penn Medicine's 2005 Awards of Excellence

Congratulations to

### Steven Albelda

Professor, Pulmonary Division, Department of Medicine

He is the 2005 winner of the Arthur K. Asbury Outstanding Faculty Mentor Award.

### Yale E. Goldman

Professor, Dept of Physiology  
Director, Pennsylvania Muscle Institute

He is the 2005 winner of the Stanley N. Cohen Biomedical Research Award.

### Daniel Rader

Associate Professor, Dept of Medicine

He is the 2005 winner of the William Osler Patient Oriented Research Award.

## Institute of Medicine

Congratulations to

### Virginia M.-Y. Lee

John H. Ware 3rd Professor in Alzheimer's Research

She was among the 64 researchers and physicians named to the Institute of Medicine (IOM) of the National Academies.

## American Academy of Microbiology

Congratulations to

### Fevzi Daldal

Professor, Depts of Biology and  
Biochemistry & Biophysics

### Craig Thompson,

Scientific Director of the  
Abramson Family Cancer Research Institute,

### Jeffrey Weiser

Associate Professor, Depts of Microbiology  
and Pediatrics

They have been elected Fellows in the American Academy of Microbiology (AAM)

## CAMB Spring Courses

Class	Instructor (s)	Day: Time
BIOM 555: Control Gene Expression	M. Bartolomei, C. Simon	T &R: 9 - 10:30
CAMB 510: Immunology	Y. Paterson, C. Hunter, D. Weiner	M, W, F: 9:30 - 12:00
CAMB 511: Principles of Development	D. Kessler, M. Mullins	T &R: 1:30-3 F, 1:30-2:30
CAMB 512: Cancer Genetics and Biology	M. Carroll	M,W,F: 1-2:30
CAMB 518: Current Topics in Ion Channels	C. Deutsch	T & R: 9:30-10:30
CAMB 534: Current Topics in Genetic Research (Animal Models of Disease)	K. Kaestner	W: 2-4
CAMB 546:Seminar in Medical Virology: HIV Pathogenesis	D. Weissman, R. Collman, U. O'Doherty, R. Bushman, L. Montaner	M: 4-6
CAMB 547: Fundamental Virology	P. Lieberman ( Jan 9 - Mar 10)	M,W,F: 1:15-2:15
CAMB 548: Bacteriology	J. Zhu (Mar 13 - Apr 21)	M,W,F: 1:15-2:15
CAMB 549: Parasites and Parasitism	J. Farrel (Mar 13 - Apr 21)	M, W, F: 1-2:30
CAMB 550: Genetic Principles	M. Sundaram	M, W, F: 10 - 11:30
CAMB 615: Topics in Conformational Disease	Y. Argon, H. Ischiropoulos	R: 1-3
CAMB 618: Introduction to Viral Pathogenesis and Immunity	N. Nathanson	R: 4-6p
CAMB 631: Cell Adhesion and the Cytoskeleton	D. Boettiger	W: 12:30 - 4
CAMB 632: Cell Control by Signal Transduction Pathways	X. Hua	T: 11am - 1
CAMB 637: Gene Therapy: Vectors Immunology and Disease	Y. Chen	W: 4:30-6:30
CAMB 638: Advanced Seminar in Apoptosis	X. Yang	W: 9am - 11
CAMB 691: Advanced Topics in Cell Biology & Physiology I	E. Holzbaur	M,F: 10:30-12
CAMB 695: Scientific Writing	J. Bergelson, E. Colston	5 sections please check for times
CAMB 752: Genomics	H. Riethman	R 2-5

**CAMB students - please remember to discuss your course choices with your program advisor and to communicate with your coordinator so that she can register you properly.**

## Recent Papers from Students

Chang YJ, Jiang M, Lubinski JM, King RD, Friedman HM. Implications for herpes simplex virus vaccine strategies based on antibodies produce to herpes simplex virus type 1 glycoprotein gC immune evasion domains. *Vaccine* 2005 **23**:4658-4365.

Cowden Dahl, KD, Robertson, SE, Weaver, VM, Simon, MC. Hypoxia-inducible factor regulates alphavbeta3 integrin cell surface expression. *Mol. Biol. Cell* 2005 **25**:1901-1912.

Covello, KL, Simon, MC, and Keith, B. Targeted replacement of hypoxia-inducible factor1alpha by a hypoxia-inducible factor-2alpha knock-in allele promotes tumor growth. *Cancer Research* 2005 **65**:2277-2286.

Cullinan, SB and Diehl JA. Coordination of Endoplasmic Reticulum and Oxidative Stress Signaling: The PERK/Nrf2 Signaling Pathway. *Int. J. Biochem. Cell Bio.* 2005, in press.

Dahl, K. D. C., F. A. Mack, V. Compernelle, D. M. Adelman, P. Carmeliet, and M. C. Simon The Hypoxia-Inducible Factors regulate trophoblast differentiation. *Mol. Cell. Biol.*, in press, 2005.

DeNicola G, Tuveson DA. VAV1: A New Target in Pancreatic Cancer? *Cancer Biol Ther.* 2005 **5**:509-11.

Ditsworth, D, Elstrom, R, and Thompson, CB. Approaches to therapeutic modulation of apoptosis (non-HIV). In: Cell Death in HIV Infection. Bradley, Editor. CRC Press, Chapter 27. pp. 449-478, in press, 2005.

Guzy, RD, Hoyos, B, Robin, E, Chen, H., Liu, L, Mansfield, KD, Simon, MC, Hammerling, U, Schumacker, PT. (Mitochondrial Complex III is required for hypoxia-induced ROS production and cellular oxygen sensing. *Cell Metabolism* 2005 **1**:401-408.

Gladden, AB and Diehl JA. Location, Location, Location: The Role of Cyclin D1 Nuclear Localization in Cancer. *J. Cell. Biochem.* 2005, in press.

Gladden AB, Woolery R, Aggarwal, P, Wasik MA, and Diehl JA. Constitutive Nuclear Localization of Cyclin D1 Promotes B-Cell Lymphoma. *Oncogene.* 2005, in press.

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Hensley SE, Giles-Davis, W, McCoy, KC, Weninger, W, Ertl, HC. Dendritic cell maturation, but not CD8+ T cell induction, is dependent on type I IFN signaling during vaccination with adenovirus vectors. *Journal of Immunology.* 2005, in press.

Hong W, Nakazawa M, Chen YY, Kori R, Vakoc CR, Rakowski C, Blobel GA. FOG-1 recruits the NuRD repressor complex to mediate transcriptional repression by GATA-1. *EMBO J.* 2005 **13**:2367-78. Epub 2005 May 26

Hu, S, Du, M-Q, Park, S-M, Alcivar, A, Qu, L, Gupta, S, Tang, J, Baens, M, Ye, H, Lee, TH, Marynen, P, Riley, JL, Yang, X. Ubiquitination of Bcl10 by c-IAP2 and its dysregulation in mucosa-associated lymphoid tissue lymphomas. *J. Clin. Invest.* 2005, in press.

Munugalavada V, Dore LC, Tan BL, Hong L, Vishnu M, Weiss MJ, Kapur R. Repression of c-kit and its downstream substrates by GATA-1 inhibits cell proliferation during erythroid maturation. *Mol. Cell. Biol.* 2005 **25**:6747-59.

Macfarlan, T, Kutney, S, Altman, B, Montross, R, Yu, J, Chakravarti, D. Human THAP7 is a chromatin-associated, histone tail-binding protein that represses transcription via recruitment of HDAC3 and nuclear hormone receptor corepressor. *J. Biol. Chem.* 2005 **280**:7346-7358.

## Recent Papers from Students cont..

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- Nelson AL, Barasch JM, Bunte RM, Weiser JN. Bacterial colonization of nasal mucosa induces expression of siderocalin, an iron-sequestering component of innate immunity. *Cell Microbiol.* 2005 **7**:1404-17.
- Pierson TC, Sanchez MD, Puffer BA, Ahmed AA, Geiss B, Valentine LE, Altamura LA, Diamond MS, Doms RW. A rapid and quantitative assay for measuring antibody-mediated neutralization of West Nile Virus infection. *Virology*, 2005, in press.
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- Vakoc CR, Mandat SA, Olenchock BA, Blobel GA. Histone H3 lysine 9 methylation and HP1 $\gamma$  are associated with transcription elongation through mammalian chromatin. *Molecular Cell.* 2005 **19**:381-91.
- Walters, JP, Muñoz, CX, Paaby, AB and DiNardo, S. Serrate-Notch signaling defines the scope of the initial denticle field by modulating EGFR activation. *Developmental Biology* 2005 **286**: 415-426.
- Wang F, Tang W, McGraw HM, Bennett J, Enquist LW, Friedman HM. Herpes simplex virus type 1 glycoprotein E is required for axonal localization of capsid, tegument and membrane glycoproteins. *J. Virol.* 2005, in press.
- Wu, J, Yang, J, and Klein, PS. Neural crest induction by the canonical Wnt pathway can be dissociated from anterior-posterior neural patterning in *Xenopus*. *Developmental Biology* **279**:220-232, 2005.

