

# CAMB News from the

## Cell and Molecular Biology Graduate Group

The 2004 CAMB Retreat  
will be Monday,  
September 20th.

The retreat will be held again this year at the University of Pennsylvania Museum of Archaeology and Anthropology.

If you are interested in volunteering to help with the planning please see the announcement on page 8.



*The keynote speaker will be  
Dr. Tyler Jacks*

Dr. Jacks is the David H. Koch Professor of Biology and Director of the Center for Cancer Research, Massachusetts Institute of Technology, and Assistant in Genetics at Massachusetts General Hospital, Boston. He received his A.B.

degree in biology from Harvard College and his Ph.D. degree in biochemistry and biophysics from the University of California, San Francisco. His graduate work with Harold Varmus involved the mechanism of ribosomal frameshifting in retroviral gene expression. As a postdoctoral fellow with Robert Weinberg at the Whitehead Institute at MIT, Dr. Jacks initiated his studies on tumor-suppressor gene function, using gene targeting in the mouse. He recently received the Chestnut Hill Award for excellence in medical research. ([bio from the HHMI website](#))



The 2005 admission weekends will be:

January 20<sup>th</sup> – 22<sup>nd</sup>

February 10<sup>th</sup> – 12<sup>th</sup>

March 3<sup>rd</sup> – 5<sup>th</sup>

Please put these dates on your calendar.

### Admission Season 2004

The CAMB office would like to thank everyone involved for their hard work this season. Especially the student leaders; Justin DiAngelo, Meghan Matukonis, Jagruti Patel, Earl Stoddard, Sheri Hanna and Craig Stone

We would also like to welcome  
the **43 new PhD students**  
who will be joining us this fall!



### New CAMB Graduate Chair

Paul Bates will be stepping down as CAMB Chair at the end of June.  
We are very pleased to announce that [Jonathan Raper](#) will be taking his place.

### New CAMB PhD Students 2004

Please join us in welcoming the CAMB PhD students who will matriculate 2004

[Bart Anderson](#),  
Utah State University

[Rebecca Baker](#),  
Cornell University

[Robert Bauer](#),  
Columbia University

[Rebecca Beerman](#),  
University of Pittsburgh

[Cara Bertozzi](#),  
Eastern College

[Balpreet Bhogal](#),  
Bryn Mawr College

[Shawn Blackburn](#),  
Brigham Young University

[Cheyne Blair](#),  
Kenyon College

[Ariella Blejer](#),  
Stanford University

[Meredith Caldwell](#),  
University of Pennsylvania

[Latoya Campbell](#),  
Hunter College

[Timothy Cash](#),  
University of Pennsylvania

[Timothy Cowley](#),  
Ohio State University

[Gregory Del Prete](#),  
Williams College

[Stacie Dilks](#),  
Drury College

[Joanna DiSpirito](#),  
University of Rochester

[Abigail Druck](#),  
Columbia University

[Chwan Hong Foo](#),  
Louisiana State University

[Natasha Girgis](#),  
University of Rochester

[Jessamina Harrison](#),  
St Catherine 's College

[Christa Heyward](#),  
Villanova University

[Ansel Hsaio](#),  
University of Pennsylvania

[Justin Kosak](#),  
North Carolina State University

[Marina Kosak](#),  
University of Georgia

[Janine Lamonica](#),  
University of Scranton

[John Lewis](#),  
Boston University

[Jingxuan Liu](#),  
Xiamen University

[Lamorris Loftin](#),  
University of North Carolina

[Daniel Lysko](#),  
Penn State University

[Vincent Mancuso](#),  
Rutgers University, New Brunswick

[Sean Mandat](#),  
Florida International University

[Vida Markovitz-Landau](#),  
University of Chicago

[Kathleen Nestor](#),  
UMASS-Amherst

[Jessica Novak](#),  
University of Wisconsin, Madison

[Scott Palmer](#),  
University of California, Davis

[Jamie Planck](#),  
Johns Hopkins University

[Anand Sitaram](#),  
Southern Methodist University

[Sara Smith](#),  
University of Pittsburgh

[Katie Stiles](#),  
Lehigh University

[Allison Teed](#),  
Haverford College

[Gladys Varela](#),  
University of Puerto Rico

[Claude Warzecha](#),  
University of Minnesota, Duluth

[Brenda Watt](#),  
Pontificia U Catolica

### Dean's Award for Excellence

Congratulations to  
**Carol Deutsch**, a Professor of  
Physiology. She is the winner  
of the 2004 Dean's Award for  
Excellence in Graduate  
Student Training

### National Neurofibromatosis Foundation's Young Investigator Award

Congratulations to  
**Aaron Gitler**, a fourth year  
CAMB - DB student. He was  
recently awarded a 2nd Prize in  
the National Neurofibromatosis  
Foundation's Prize  
for Research Ideas

### National Science Foundation Graduate Fellowship

Congratulations to  
**Robert Lee**, a first year  
CAMB - CBP student. He was  
recently awarded a National  
Science Foundation  
Graduate Fellowship.

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### Students who Received PhD's in December

#### Jennifer Baccon

Advisor: Gideon Dreyfuss

*"The Survival of Motor Neuron Protein: Interactions and functional implications for ribonucleoprotein biogenesis"*

#### Ronadip Banerjee

Advisor: Mitchell Lazar

*"Biochemical and Genetic Studies of Resistin"*

#### Kevin Du

Advisor: Michael Parmacek

*"Myocardin: A Critical Srf Co-Activator Regulating Smooth Muscle Cell Differentiation"*

#### Colleen McCullen

Advisor: Andrew Binns

*"Translocation of virulence factors to host plant cells by Agrobacterium tumefaciens"*

#### Devin Shedlock

Advisor: Hao Shen

*"CD8 T cell memory: a little help goes a long way"*

#### Charles Vite

Advisor: John Wolfe

*"Clinical/Pathological Assessment and Quantitative Nuclear Magnetic Resonance Imaging of Gene Therapy of a Naturally Occurring CNS Disease in the Cat"*

#### Christopher Watt

Advisor: David Goldhamer

*"The Identification and Characterization of the Transcriptional Repressor Related to GEF/PBF"*

## CAMB Fall Courses

Class	Instructor (s)	Day: Time
BIOM 600: Cell Biology and Biochemistry	M. Ostap	M, W, F: 10:30 - 12:30
CAMB 512: Cancer Genetics and Biology	M. Carroll	M, R : 2 - 3:30
CAMB 518: Current Topics in Ion Channels	C. Deutsch, F. Horrigan	T : 9:30-11 (on alternate weeks) R 9:30-10:30
CAMB 532: Integrative Physiology	M. Pring	T, W, F: 2:30 - 4
CAMB 539: Prokaryotic Molecular Genetics	M. Yuk	T, R: 10:30- 12
CAMB 542-401: Topics in Molecular Medicine - (MD / PhD only)	G. Koretsky, L. Brass, M. Kahn	W: 4 - 6
CAMB 542-402: Topics in Molecular Medicine - (VMD/PhD, PhD, and MD/PhD )	M. Atchinson	W: 5 - 7
CAMB 597: Developmental Neuroscience	M. Granato	M, W, F: 11 - 12
CAMB 601: Advanced Virology Seminar	R. Harty, J. Bergelson	M: 3 - 5
CAMB 605: First Year Seminar	D. Epstein	T: 1 - 4
CAMB 608: Regulation of Eukaryotic Gene Expression	T. Kadesch, K. Zarret	T: 3 - 5
CAMB 610: Molecular Basis of Gene Therapy	J. Wilson, J. Glick	M, W, F: 9 - 10
CAMB 617: Emerging Infectious Diseases	R. Doms	M, W, F: 10 -11
CAMB 620: Molecular Mechanisms of Development	S. DiNardo	T: 10 -12

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

[\(link to BGS course list\)](#)



## Recent Papers from Students

- Andl, T., Ahn, K., Kairo, A., [Chu, E. Y.](#), Wine-Lee, L., Reddy, S. T., Croft, N. C., Cebra-Thomas, J. A., Metzger, D., Chambon, P., Lyons, K. M., Mishina, Y., Seykora, J. T., Crenshaw, E. B., & Millar, S. E., Epithelial Bmpr1a regulates differentiation and proliferation in postnatal hair follicles and is essential for tooth development, *Development*, (in press). 2004.
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- [Bertout JA](#), Mahutte NG, Preston SL, and Behrman. HR, Reactive Oxygen Species and Ovarian Function, In: The Ovary, 2nd Edition; Chapter 20 (pgs. 353-368), Ed: C.K. Leung and Eli Y. Adashi Elsevier Academic Press, San Diego, CA. 2004.
- [Bothos J](#), Summers MK, [Venere M](#), Scolnick DM, Halazonetis TD., The Chfr mitotic checkpoint protein functions with Ubc13-Mms2 to form Lys63-linked polyubiquitin chains, *Oncogene*. 2003 Oct 16;22(46):7101-7.
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- [Covello, K.L.](#) and Simon M.C. (2004) HIFs, Hypoxia, and Vascular Development. In: A Volume of Current Topics in Developmental Biology, Ed. G. Schatten, in press.
- Crystal AS, Morais VA, [Fortna RR](#), Carlin D, Pierson TC, Wilson CA, Lee VM, Doms RW., Presenilin Modulates Pen-2 Levels Posttranslationally by Protecting It from Proteasomal Degradation, *Biochemistry*. 43(12):3555-3563. 2004 Mar 30.
- [Fedoriw, A.M](#), Stein, P., Svoboda, P., Schultz, R.M. and M.S. Bartolomei, Transgenic RNAi reveals essential function for CTCF in H19 gene imprinting, *Science*, 303:238-240. 2004.
- [Fitzgerald JC](#), Gao GP, Reyes-Sandoval A, Pavlakis GN, Xiang ZQ, Wlazlo AP, Giles-Davis W, Wilson JM, Ertl HC., A simian replication-defective adenoviral recombinant vaccine to HIV-1 gag, *J Immunol*. 170(3):1416-1421. 8. 2003.
- [Fortna RR](#), Crystal AS, Morais VA, Pijak DS, Lee VM, Doms RW., Membrane topology and nicastrin-enhanced endoproteolysis of APH-1, a component of the gamma-secretase complex, *J Biol Chem*. 279(5):3685-93. 2004 Jan 30.
- [Garbe, D.\\*](#), Doto, J. B.\* and Sundaram, M. V. *C. elegans lin-35/Rb, efl-1/E2F* and other Synthetic Multivulva genes negatively regulate the Anaphase Promoting Complex gene *mat-3/APC8*. *Genetics*, in press. (2004). \*equal contributions
- [Gitler, A. D.](#), [Kong, Y.](#), Choi, J. K., Zhu, Y., Pear, W. S., and Epstein, J. A., Tie2-Cre-Induced Inactivation of a Conditional Mutant Nf1 Allele in Mouse Results in a Myeloproliferative Disorder that Models Juvenile Myelomonocytic Leukemia, *Pediatric Research* 55, 581-584. 2004.
- [Gladden, AB](#) and Diehl, JA. , Cell cycle progression without cyclin E/CDK2: breaking down the walls of dogma, *Cancer Cell*. 4:160-162. 2003.

## Recent Papers from Students cont..

- Greger, J.G., Katz, R.A., Taganov, K., Rall, G.F., Skalka, A.M. Transduction of Terminally Differentiated Neurons by Avian Sarcoma Virus. *J. Virol.*, 78: 4902-4906. 2004.
- Irie, T., Licata, J. M., McGettigan, J. P., Schnell, M. L., and Harty, R. N., Budding of PPxY-containing rhabdoviruses is not dependent on host proteins TSG101 and VPS4A, *J. Virol.* Mar;78(6):2657-65. 2004.
- Irie, T., Licata, J. M., Jakayar, H. R., Whitt, M. A., Bell, P., and Harty, R. N., Functional analysis of L-domain activity associated with the PSAP motif within the VSV M protein, *J. Virol.* (in press) 2004.
- Jiang J, Zenewicz LA, San Mateo LR, Lau LL, Shen H., Activation of antigen-specific CD8 T cells results in minimal killing of bystander bacteria, *J Immunol.* 171(11):6032-8. 2003 Dec 1.
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- La P, Schnepf RW, Petersen CD, Silva AC, Hua X, Tumor Suppressor Menin Regulates Expression of Insulin-Like Growth Factor Binding Protein 2 (IGFBP-2), *Endocrinology.* 10.1210/en.2004-0124 2004 Mar 24.
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- Licata, J. M. and Harty, R. N., Rhabdoviruses and apoptosis. *International Reviews of Immunology.* 22(5-6):451-76: Sep-Dec. 2003.
- Licata, J. M., Johnson, R. F., Han, Z., and Harty, R. N., Contribution of Ebola virus GP, NP, and VP24 to budding of VP40 VLPs. *J. Virol.* (in press) 2004.
- Licata, J. M. and Harty, R. N., Antiviral strategies for Ebola virus. In: Antiviral Drug Discovery for Emerging Diseases and Bioterrorism Threats. Ed: Paul Torrence. John Wiley & Sons, Inc., Hoboken, NJ. 2004.
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- Lu, F, Gladden, AB, Diehl, JA., The alternatively spliced cyclin D1 isoform, cyclin D1b, is a nuclear oncogene, *Cancer Research.* 63:7056-7061. 2003.
- Mariatos G, Bothos J, Zacharatos P, Summers MK, Scolnick DM, Kittas C, Halazonetis TD, Gorgoulis VG., Inactivating Mutations Targeting the *chfr* Mitotic Checkpoint Gene in Human Lung Cancer. *Cancer Res.* 2003 Nov 1;63(21):7185-9.
- Moore RE, Kawashiri MA, Kitajima K, Secreto A, Millar JS, Pratico D, Rader DJ., Apolipoprotein A-I deficiency results in markedly increased atherosclerosis in mice lacking the LDL receptor, *Arterioscler Thromb Vasc Biol.* 2003 Oct 1;23(10):1914-20.
- Pinto AR, Fitzgerald JC, Gao GP, Wilson JM, Ertl HC., of CD8(+) T cells to an HIV-1 antigen upon oral immunization of mice with a simian E1-deleted adenoviral vector. *Vaccine.* 22:698-704. 2004.
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## Recent Papers from Students cont..

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Riethman H, Ambrosini A, Castaneda C, Finklestein J, Hu XL, Mudunuri U, Paul S, Wei J., Mapping and initial analysis of human subtelomeric sequence assemblies, *Genome Research*. (1):18-28. 2004 Jan14.

Rylski M., Welch J.J., Chen Y.-Y., Letting D.L., Diehl A., Chodosh L.A., Blobel G.A. and Weiss M.J., GATA-1-mediated proliferation arrest during erythroid maturation, *Mol. Cell. Biol.* 23:5031-5042.2003. 2003.

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Simmons G, Lee A, Rennekamp AJ, Fan X, Bates P, Shen H., Identification of murine T cell epitopes in Ebola virus nucleoprotein, *Virology*. 318(1):224-30. 2004 Jan 5.

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Troy AE, Shen H., Cutting edge: homeostatic proliferation of peripheral T lymphocytes is regulated by clonal competition, *J Immunol*. 15170(2):672-6. 2003 Jan.

Yancey PG, Kawashiri MA, Moore R, Glick JM, Williams DL, Connelly MA, Rader DJ, Rothblat GH., *In vivo* modulation of HDL phospholipid has opposing effects on SR-BI- and ABCA1-mediated cholesterol efflux, *J Lipid Res*. 45(2):337-46. Feb. 2004

Yang, J., Wu, J., Tan, C. and P.S. Klein, PP2A:B56<sub>1</sub> is required for Wnt/ $\beta$ -catenin signaling during embryonic development, *Development*. 130: 5569-5578, 2003.

Yu J, Li Y, Ishizuka T, Guenther MG, Lazar MA. A SANT motif in the SMRT corepressor interprets the histone code and promotes histone deacetylation, *EMBO J* 22:3403-3410, 2003.

Zenewicz LA, Skinner JA, Goldfine H, Shen H., *Listeria monocytogenes* Virulence Proteins Induce Surface Expression of Fas Ligand on T lymphocytes, *Mol Microbiol*. 51(5):1483-92. 2004 Mar.



more scenes of the 2003 retreat [\(link\)](#)



## CAMB Events Committee

The CAMB Events Committee, Chaired by Dr. David Gasser, is in need of new members (both students and faculty) for the 2004-2005 year. Members of the committee will provide planning input and help for approximately four CAMB events during the year, including three social events/parties and the Annual Retreat. The committee will likely meet 3 to 5 times over the course of the year, as well as provide input via e-mail. (The first meeting will be in early June.) If you are interested in volunteering, please contact CAMB Coordinator Emily Damanskis at [edd2@mail.med.upenn.edu](mailto:edd2@mail.med.upenn.edu).

Take a look at the events web site  
[www.med.upenn.edu/camb/  
 events.html](http://www.med.upenn.edu/camb/events.html)

## Student Members of the CAMB Executive Committee

Michael Keeley's one year term on the CAMB Executive Committee will be over at the end of June. The committee meets once a month, usually on the third Monday of the month. If you are interested in serving as one of the two student representatives to the committee please contact Meagan Schofer at [mschofer@mail.med.upenn.edu](mailto:mschofer@mail.med.upenn.edu). We are hoping that there will be enough interest to merit elections.

## Developmental Biology Student Sponsored Seminars

**Rudolf Raff, PhD**

Indiana University

June 14th, 12:15pm

BRB II/III Auditorium

Hosted by—Julie L. Lefebvre

**Lee Niswander, PhD**

Sloan-Kettering Institute

June 28, 12:15 pm

BRB II/III auditorium

Hosted by—Jinling Wu

## Future Newsletters

We are planning on putting out a Summer Newsletter. If you have announcements that you would like to include, please contact Meagan Schofer, [mschofer@mail.med.upenn.edu](mailto:mschofer@mail.med.upenn.edu)