Program Updates

Cancer Biology (CB)
In January 2009, Andrei Thomas-Tikhonenko will become the new chair of CB. Many thanks to Brian Keith for his assiduous and motivational leadership.

Cell Biology and Physiology (CBP)
This program underwent a leadership change over the summer. Kevin Foskett is the new chair of CBP. Thank you to Mickey Marks for his years of conscientious service and inspirational leadership.

Developmental, Stem Cell, and Regenerative Biology (DSRB)
The Developmental Biology Program is now The Developmental, Stem Cell, and Regenerative Biology Program. The new acronym is DSRB.

CAMB Holiday Party
Please join us at the annual holiday party
December 18, 2008
4-6PM in the BRB Lobby

Admission Season 2009
The 2009 Admission weekends are:

January 15-17
February 5-7
February 26-28

Faculty interview times on Friday are:
10-10:30, 10:45-11:15, 2:15-2:45, 3-3:30

Please put these dates on your calendar.

http://www.med.upenn.edu/camb/
CAMB Symposium

Congratulations to our poster winners!

CB — Laura Pontano
CBP — Anand Sitaram
DB — Ashley Goss
GGR — Julie Norseen
GTv — Benjamin Kleaveland
MVP — Natasha Girgis

The CAMB students and faculty would like to thank the following sponsors of the 2008 Symposium:

**UNIVERSITY OF PENNSYLVANIA INSTITUTES, DEPARTMENTS, AND TRAINING GRANTS**

Abramson Family Cancer Research Institute
M. Celeste Simon, Ph.D., Scientific Director

Department of Cell and Developmental Biology
Jonathan A. Epstein, M.D., Chair

Department of Genetics
Tom Kadesch, Ph.D., Chair

Department of Microbiology
Robert W. Doms, M.D., Ph.D., Chair

Department of Physiology
H. Lee Sweeney, Ph.D., Chair

Institute for Diabetes, Obesity and Metabolism
Mitchell A. Lazar, M.D., Ph.D., Director

The Joseph Stokes Jr. Research Institute
Philip R. Johnson, M.D., Director

Training Program in Cell and Molecular Biology
NIH Training Grant T32GM007229
Richard M. Schultz, Ph.D.
Marisa Bartolomei, Ph.D.

Training Program in Comparative Medicine and Medical Genetics
NIH Training Grant T32RR007063
John H. Wolfe, V.M.D., Ph.D.

Training Program in Developmental Biology
NIH Training Grant T32HD007516
Jonathan A. Raper, Ph.D.

Training Program in Gene Therapy for Cystic Fibrosis and Genetic Diseases
NIH Training Grant T32DK07748
John H. Wolfe, V.M.D., Ph.D.

Training Program in Immunobiology of Normal and Neoplastic Lymphocytes
NIH Training Grant T32CA09140
Yvonne Paterson, Ph.D.

**VENDORS**

Applied Biosystems

Cell Signaling Technology, Inc.

Denville Scientific Products

Lab Scientific

New England BioLabs

Olympus America, Inc.

Optical Apparatus Co., Inc.
This year CAMB students Andrew Rennekamp and Christa Heyward were both elected Chair and Vice Chair for Finance, respectively, of the Graduate and Professional Student Assembly. As members of the GAPSA Executive Board they represent the more than 12,000 graduate and professional students from all 12 Penn schools, they interact regularly with University central administration, including President Amy Gutmann and Provost Ron Daniels, and they oversee a student government budget of more than half a million dollars. For more information on GAPSA events and accomplishments, check the GAPSA website: http://www.gapsa.upenn.edu.
August Graduates

11 CAMB students received PhDs in August 2008.

Shawn Blackburn
Advisor: Dr. E. John Wherry
"Raising Lazarus: Exhaustion, Death and Resurrection of 
CDB+ T cell Responses during Chronic Viral Infection"

Robert Hamanaka
Advisor: Dr. J. Alan Diehl
“PERK-regulated Protein Translation Mediates Cell Cycle 
Arrest and Survival During the Unfolded Protein Response”

Brian Hannah
Advisor: Drs. Gary Cohen and Roselyn Eisenberg
“HSV Glycoprotein B Fusion Loop Architecture and 
Mechanisms of Fusion Inhibition by Fusion Loop Mutants”

Brian J. Hudson
Advisor: Dr. Youhai Chen
“Loss of PDCD4 Results in Insulin Resistance Through ER 
Stress”

Shawn C. Little
Advisor: Dr. Mary Mullins
“The Emergence of Embryonic Dorsal-Ventral Pattern 
through the interactions of BMP ligands with their receptors 
and modulators”

Maciej Ludwinski
Advisor: Dr. Youhai Chen
“Role of BIM in Type I Diabetes”

Heather Marshall Rose
Advisor: Dr. Frederic Bushman
“Viral and Cellular Determinants of Retroviral 
Integration Targeting:”

Katrina Nolan
Advisor: Dr. James Hoxie
“The Role of the HIV-1 V3 Loop in Determining 
Coreceptor Tropism and Modulating Sensitivity to 
Coreceptor Inhibitors”

Nazzy Pakpour
Advisor: Dr. Phil Scott
“The Role of Central Memory CD4+ T Cells in 
Leishmania Major Infection”

Jessica Roth-Cross
Advisor: Dr. Susan Weiss
"Interactions of the Murine Corona virus Mouse Hepatitis 
Virus (MHV) with the Type I IFN Response"

Diana Shineman
Advisor: Dr. Virginia Lee
"Signaling Pathways Regulating Amyloid Precursor 
Protein and ABeta Generation: Roles for Isoprostane-
induced Thromboxane Receptor Signaling and Chronic 
AKT Activation in Alzheimer’s Disease"

Congratulations!
## CAMB Spring Courses 2009

<table>
<thead>
<tr>
<th>Class</th>
<th>Instructor(s)</th>
<th>Day: Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOM 555 Control Gene Expression</td>
<td>TBD</td>
<td>T, R: 9-10:30am</td>
</tr>
<tr>
<td>CAMB 483: Epigenetics</td>
<td>D. Wagner</td>
<td>T, R: 1:30-3pm</td>
</tr>
<tr>
<td>CAMB 510: Immunology</td>
<td>Y. Chen, G. Silvestri, J. Wherry</td>
<td>M, W, F: 10-11:30am</td>
</tr>
<tr>
<td>CAMB 511: Principles of Development</td>
<td>D. Kessler, M. Mullins</td>
<td>T, R: 1:30-3pm</td>
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<td></td>
<td></td>
<td>F: 1:30-2:30pm</td>
</tr>
<tr>
<td>CAMB 512: Cancer Genetics and Biology</td>
<td>J. Lynch, K. Nathanson</td>
<td>M, R: 10:30am-12pm</td>
</tr>
<tr>
<td>CAMB 518: Current Topics in ION Channels</td>
<td>C. Deutsch</td>
<td>T, R: 9:30-10:30am alternate weeks</td>
</tr>
<tr>
<td>CAMB 534: Seminar on current genetic research: Modeling Human Disease in Animals</td>
<td>A. Gitler</td>
<td>W: 2-4pm</td>
</tr>
<tr>
<td>CAMB 541: Genetic Analysis</td>
<td>S. Poethig</td>
<td>T, R: 10:30-12pm</td>
</tr>
<tr>
<td>CAMB 546: Seminar in Medical Virology: HIV Pathogenesis</td>
<td>D. Weissman, R. Collman, L. Montaner</td>
<td>R: 3-5pm</td>
</tr>
<tr>
<td>CAMB 547: Fundamental Virology</td>
<td>F. Bushman</td>
<td>M, W, F: 1:15-2:15pm</td>
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<tr>
<td>CAMB 548: Bacteriology</td>
<td>J. Zhu</td>
<td>M, W, F: 1:15-2:15</td>
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<tr>
<td>CAMB 549: Parasites and Parasitism</td>
<td>J. Farrell</td>
<td>M, W, F: 1-2:30pm</td>
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<tr>
<td>CAMB 550: Genetic Principles</td>
<td>M. Sundaram</td>
<td>M, W, F: 10-11:30am</td>
</tr>
<tr>
<td>CAMB 632: Cell Control by Signal Transduction Pathways</td>
<td>X. Hua, J. Field</td>
<td>T: 11am-1pm</td>
</tr>
<tr>
<td>CAMB 633: Advanced Seminar in Gene Therapy</td>
<td>J. Wilson</td>
<td>W: 4:30-6pm</td>
</tr>
<tr>
<td>CAMB 650: DNA Damage Checkpoints and Repair</td>
<td>E. Brown, C. Bassing, R. Greenberg</td>
<td>W: 3-6pm</td>
</tr>
<tr>
<td>CAMB 692: Advanced Topics in Cell Biology &amp; Physiology II</td>
<td>M. Birnbaum</td>
<td>M, F: 10:30am-2pm</td>
</tr>
<tr>
<td>CAMB 695: Scientific Writing</td>
<td>E. Golemis</td>
<td>W, R: 1-2:30pm</td>
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<td>F: 12-1:30pm</td>
</tr>
<tr>
<td>CAMB 696: Contemporary Topics in Parasitology Research</td>
<td>D. Artis, D. Greenbaum</td>
<td>T: 10:30am-12pm</td>
</tr>
<tr>
<td>CAMB 697: Biology of Stem Cells</td>
<td>G. Cotsarelis, W. Pear</td>
<td>M: 3-5pm</td>
</tr>
<tr>
<td>CAMB 752: Genomics</td>
<td>H. Reithman</td>
<td>R: 3-6pm</td>
</tr>
</tbody>
</table>

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


Dierov J, Sanchez PV, Burke BA, Padilla-Nash H, Putt ME, Ried T, Carroll M. BCR/ABL induces chromosomal instability after genotoxic stress and alters the cell death threshold. Leukemia. 2008 Nov 20. [Epub ahead of print].


Recent Papers from Students cont..


Recent Papers from Students cont..


Recent Papers from Students cont..


Dr. David Artis, Assistant Professor in Pathobiology at the School of Veterinary Medicine, has received an Investigators in the Pathogenesis of Infectious Disease Award from the Burroughs Wellcome Fund.

Dr. Jean Bennett, Professor of Ophthalmology and Cell and Developmental Biology has been elected to the Institute of Medicine.

Dr. Jonathan Epstein, Professor and Chair, Department of Cell and Developmental Biology has been elected to the Institute of Medicine.

Dr. Aaron Gitler, Assistant Professor of Cell and Developmental Biology, was awarded the NIH New Innovator Award.

Dr. Aaron Gitler, Assistant Professor of Cell and Developmental Biology, was recognized as a 2008 Pew Scholar in the Biomedical Sciences.

Dr. Aaron Gitler, Assistant Professor of Cell and Developmental Biology, was recognized as a 2008 Rita Allen Foundation Scholar.

Dr. Kurt Hankenson, Assistant Professor of Cell Biology, was awarded the Fuller Albright Award by the American Society of Bone and Mineral Research (ASBMR).

Dr. Gary Koretzky, Director of Signal Transduction; Investigator, Abramson Family Cancer Research Institute; Leonard Jarett Professor of Pathology and Laboratory Medicine, School of Medicine and Chief, Division of Rheumatology has been elected to the Institute of Medicine.

Dr. Michael Lampson, Assistant Professor of Biology, was named a 2008 Searle Scholar.

Dr. Mitchell Lazar, Chief of Endocrinology, Diabetes and Metabolism, Director of the Institute of Diabetes, Obesity and Metabolism has been named a Fellow of the American Academy of Arts and Science.

Dr. Virginia Lee, The John H. Ware 3rd Professor in Alzheimer's Research; Director, Center for Neurodegenerative Disease Research; Co-Vice Chair for Academics, Department of Pathology and Laboratory Medicine was awarded the 2008 Franklin Founder Award.

Dr. Zhe Lu, Professor of Physiology, was selected to be a Howard Hughes Medical Institute Investigator.

Dr. Paul Offit, Professor of Pediatrics, won this year’s Luigi Mastroianni Clinical Innovator Award.

Dr. Yvonne Paterson, Professor of Microbiology has been awarded a 2008 BCRF-A-ACR Grant for Translational Breast Cancer Research.

Dr. Steven Reiner, Professor, Department of Medicine won this year’s Stanley N. Cohen Biomedical Research Award.

** Many of these listings are from the Almanac.
We would like to welcome the following faculty that joined CAMB this year:

**Joseph A. Baur, Ph. D. (CBP),** Institute for Diabetes, Obesity & Metabolism and Department of Physiology

**Kendra Bence, Ph. D. (CBP),** Assistant Professor, Animal Biology, School of Veterinary Medicine

**Gudrun Debes, DVM. (MVP),** Assistant Professor, Department of Pathology, School of Veterinary Medicine

**Paul Gadue, Ph. D. (DB),** Assistant Professor, Department of Biology

**John D. Gearhart, Ph. D., (DB),** James W. Effron University Professor; Director, Institute for Regenerative Medicine; Professor, Department of Cell & Developmental Biology; Professor, Department of Animal Biology

**Robert Greenberg, Ph. D. (MVP),** Associate Research Professor, Department of Pathobiology, School of Veterinary Medicine

**Kenneth Margulies, M.D. (CBP),** Associate Professor of Medicine; Director, Heart Failure and Transplant Research and Dept. of Internal Medicine/Cardiology, Penn Cardiovascular Institute

**Nicola Mason, DACVIM, Ph. D., (GTV),** Assistant Professor, Departments of Clinical Studies and Pathobiology, School of Veterinary Medicine

**Vickas Patel, M.D., Ph. D. (CBP),** Assistant Professor of Medicine, Director, Molecular Arrhythmia Research

**Fabrice Roegiers, Ph. D. (DB),** Assistant Professor, Cell and Developmental Biology

**Nancy A. Speck, Ph. D. (DB),** Investigator, Abramson Family Cancer Research Institute; Professor, Cell and Developmental Biology

**Andrew D. Wells, Ph. D. (GGR),** Assistant Professor, Pathology and Laboratory Medicine

**Developmental, Stem Cell, and Regenerative Biology Student Invited Seminars**

**January 5, 2009**  
Raphael Kopan  
Washington University  
hosted by: Ashley Goss

**March 23, 2009**  
Steven Henikoff  
Fred Hutchinson Cancer Research Center  
hosted by: Margaret Fleetwood

**March 30, 2009**  
Phillip Benfey  
Duke University  
hosted by: Cara Winter

**Future Newsletters**

If you have announcements that you would like to include, please contact Kathy O’Connor-Cooley at kathyo@mail.med.upenn.edu