Dr. Marianne Bronner, Albert Billings Ruddock Professor of Biology, at the California Institute of Technology will be speaking on “Gene regulatory events in neural crest development and evolution.” More information about the research in her lab can be found at: http://biology.caltech.edu/Members/Bronner-Fraser.

The CAMB Annual Symposium is a full day (8:30am –6:00pm) of science and social interaction for CAMB faculty and students. Talks will be presented by two faculty and six students, as well as the keynote speaker.

All thesis level students are expected to present posters, and all other CAMB students may volunteer to do so. A panel of faculty judges will award prizes to the top posters at the end of the day.
Welcome!

To the 58 incoming CAMB PhD students matriculating in 2011

Anissa Alexander (GGR)
University of Maryland, Baltimore County

Theonie Anastassiadi (CB)
Haverford College

Joanna Balcerek (CB)
University of Pennsylvania

Hannah Barbian (MVP)
University of Wisconsin, Madison

Lauren Brady (GGR)
Ursinus College

Alexandra Bryson (MVP)
Texas A&M University

Devin Christopher (GTV)
University of New Mexico

Carolyn Dombecki (GTV)
University of Michigan

Mary Drake (MVP)
University of Richmond

Melissa Ducommun (DSRB)
Bates College

Thu Duong (DSRB)
University of Science

Kristel Emmer (GTV)
Richard Stockton College of New Jersey

Rianne Esquivel (MVP)
University of Maryland, College Park

Seleeke Flingai (GTV)
Massachusetts Institute of Technology

Qi Fu (DSRB)
The Ohio State University

April Giles (GTV)
Michigan State University

Nelson Glennie (MVP)
University of Virginia

Ariel Gonzalez (DSRB)
University of Connecticut

Jessica Grindheim (CB)
University of California, Berkeley

Hayley Hanby (CBP)
Villanova University

Geoffrey Hannigan (GTV)
University of Minnesota, Duluth

Amanda Hay (MVP)
Washington University in St. Louis

Michael Herriges (DSRB)
University of Chicago

Michael Hogan (MVP)
Brown University

Stella Hur (DSRB)
Brown University

Shilpa Iyer (MVP)
Fergusson College

Rakesh Jambusaria (MVP)
University of California, Berkeley

Qinqin Jiang (CB)
Zhejiang University

Tatiana Karakasheva (CB)
Russian State Medical University

Elizabeth Kennedy (CB)
The University of Michigan, Ann Arbor

Julia Kieckhaefer (GGR)
Luther College

Eunsun Kim (CB)
Cornell University

Hye In Kim (GGR)
Seoul National University

Megan Kissig (CBP)
University of Delaware

James Knox (MVP)
University of South Carolina

Joyce Lee (GGR)
University of California, Berkeley

Rachel Liebman (MVP)
University of Pennsylvania

Barzin Nabet (CB)
University of Pennsylvania

Gregory Osborn (MVP)
University of Washington

Katherine Palozola (GGR)
Denison University

Neha Pancholi (CBP)
University of Maryland

Zahra Parker (MVP)
Washington and Lee University

Kelly Proimoios (CBP)
University of Maryland

Amber Riblett (MVP)
Arizona State University

Alex Rohacek (DSRB)
Utica College

Xiu Li Sim (DSRB)
University of Oxford

Jenessa Smith (CB)
Pennsylvania State University

Kelsey Speer (CBP)
Macalester College
The CAMB office would like to thank all of those who made the 2011 admission season a success.

Many thanks to our 2011 student leaders:

Ashley Mentlik, Erin Graf, Tanya Corman, Nick Francella, Steve Santoro, Chris Campbell, Julie Crudele, and Kara Coleman

2012 CAMB PhD Admissions

January 12-14
February 2-4
February 23-25

Faculty: interview times are
10-10:30, 10:45-11:15, 2:15-2:45, & 3-3:30.

Please mark your calendars

2011-12 MD/PhD Admissions

October 20-21
December 1-2
January 5-6

Faculty: interview times are
11-11:30, 11:45-12:15, 12:30-1:00, 2-2:30, 2:45-3:15, & 3:30-4:00

Please mark your calendars

Official Results

1st Annual CAMB Student vs. Faculty Softball Game
June 10, 2011

Students, 15
Faculty, 7
Congratulations 2010-2011 Graduates!

Bart Anderson  
Advisor: Dr. Drew Weissman  
“Nucleoside Modifications Suppress RNA Activation of Cytoplasmic RNA Sensors”

Robert Bauer  
Advisor: Dr. Nancy Spinner  
“Jagged1 Missense Mutations in Disorders of the Liver and Heart”

Rebecca Beerman  
Advisor: Dr. Tom Jongens  
“Characterizing the Regulation and Activity of the Drosophila Fragile X Mental Retardation Gene, dfmr1”

Balpreet Bhogal  
Advisor: Dr. Tom Jongens  
“Modulation of Adar-Dependent RNA Editing by the Drosophila Fragile X Mental Retardation Protein”

Nicholas Buchkovich  
Advisor: Dr. James Alwine  
“The Role of the Unfolded Protein Response Regulator BiP in HCMV virion assembly and egress”

Beth Burke  
Advisor: Dr. Martin Carroll  
“Effects of the BCR-ABL Oncogene on DNA Damage and Repair”

Timothy Cash  
Advisor: Dr. Celeste Simon  
“Molecular Mechanisms of the Birt-Hogg-Dubé Tumor Suppressor”

Alejandro Chavez  
Advisor: Dr. Brad Johnson  
“Novel Roles for the SMC5/6 Complex and the DNA Helicase MPH1 in Template Switch Recombination”

Natasha Girgis  
Advisor: Dr. Stuart Isaacs  
“A role for the acinia virus complement control protein in modulation of innate and adaptive Immunity during infection”

Timothy Cowley  
Advisor: Dr. Susan Weiss  
“Genetic Determinants of Virulence for the A59 and JHM Strains of Mouse Hepatitis Virus”

Ana Cristancho  
Advisor: Dr. Mitchell Lazar  
“Coordination of Cell-Cell Contact, Cell Structure, and Transcriptional Regulation to Promote Adipogenesis”

Ankur Dalia  
Advisor: Dr. Jeffrey Weiser  
“Characterization of Bacterial Factors that Promote Resistance to Complement-Mediated Opsonophagocytic Killing and Lysis”

Rob Ricciardi and Abigail Druck Shudofsky
Congratulations 2010-2011 Graduates!

Kimberly Davis  
Advisor: Dr. Jeffrey Weiser  
"Peptidoglycan and the Host Response to Pneumococcal Colonization"

Abigail Druck Shudofsky  
Advisor: Dr. Robert Ricciardi  
“The Role of D4 in Vaccinia Virus Processive DNA Synthesis”

Chwan Hong Foo  
Advisors: Dr. Gary Cohen and Dr. Roselyn Eisenberg  
“Functional Analysis of the Vaccinia Virus Entry Protein L1”

Kristine Fortin  
Advisor: Dr. Zissimos Mourelatos  
“Protein Partners and Post-translational Modifications: Towards Understanding the Regulation of Argonaute Proteins”

Joseph Francica  
Advisor: Dr. Paul Bates  
“A study of the Ebola virus glycoprotein: Disruption of host surface protein function and evasion of immune responses”

Caroline Gamse  
Advisors: Dr. Robert Doms  
“Immunogen Design for the Elicitation of Broadly Neutralizing Anti-HIV Antibodies: Targeting Protein and Glycan Epitopes”

Marcus Goncalves  
Advisor: Dr. Rexford Ahima  
“The role of the activin receptor type IIB (ActRIIB) in glucose and energy homeostasis”

Aarthi Gopinathan  
Advisor: Dr. Dave Tuveson  
“Utilizing Genetically Engineered Mouse Models of Pancreatic Cancer: Evaluating the Role of Cathepsin B and the Efficacy of Farnesyl Thiosalicylic Acid”

Ashley Goss  
Advisor: Dr. Edward Morrisey  
“WNT2 Signaling in Lung Development”

Adam Hersperger  
Advisor: Dr. Michael Betts  
“Insights into the cytotoxic potential of human CD8+ T cells: Implications for virologic control of HIV”

Haitao Hu  
Advisor: Dr. Drew Weissman  
“HIV Immunopathogenesis: Inhibition of CD4+ T Cell Activation”

Catrina King  
Advisor: Dr. Anil Rustgi  
“LIN28B, let-7, and the Molecular Pathogenesis of Colon Cancer”

David Weiner, Tim Cowley and Susan Weiss

Catrina King and Anil Rustgi
## Congratulations 2010-2011 Graduates!

<table>
<thead>
<tr>
<th>Name</th>
<th>Advisor</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>George Leslie</td>
<td>Dr. James Hoxie</td>
<td>“HIV-1 Entry and the CCR5 Amino Terminus”</td>
</tr>
<tr>
<td>John Lewis</td>
<td>Dr. Yale Goldman</td>
<td>“Examining the Coupling of the Mechanical and Chemical Functions of Myosin Family Members Using Single Molecule and Bulk Solution Techniques”</td>
</tr>
<tr>
<td>Hojun Li</td>
<td>Dr. Katherine High</td>
<td>“Adeno Associated Virus Vectors in Gene Therapy for Hemophilia B: Random Versus Targeted Genomic Integration”</td>
</tr>
<tr>
<td>Andrew Lippa</td>
<td>Dr. Mark Goulian</td>
<td>“MGRB and Periplasmic Redox Balance Contribute to Negative Feedback in the PHOQ/PHOP Two-Component System of Escherichia coli”</td>
</tr>
<tr>
<td>Lamorris Loftin</td>
<td>Dr. Ronald Collman</td>
<td>“Regulation of CCR5 use on PrimaryCD4+ Lymphocytes by R5X4 HIV-1”</td>
</tr>
<tr>
<td>Lauren Mays</td>
<td>Dr. James Wilson</td>
<td>“The Impact of Capsid Structure on the Immune Response to Adeno-Associated Viral Vectors”</td>
</tr>
<tr>
<td>Hestia Mellert</td>
<td>Dr. Steve McMahon</td>
<td>“Regulating p53-mediated apoptosis by modulating DNA-binding domain acetylation”</td>
</tr>
<tr>
<td>Renuka Nayak</td>
<td>Dr. Vivian Cheung</td>
<td>“Coexpression Networks Based on Natural Variation in Human Gene Expression at Baseline and Under Stress”</td>
</tr>
<tr>
<td>Abby Olsen</td>
<td>Dr. Rebecca Wells</td>
<td>“The Fibronectin EIIIA Splice Variant Promotes Hepatic Stellate Cell Motility and Liver Fibrosis via alpha 9 beta 1 Integrin”</td>
</tr>
<tr>
<td>Arun Padmanabhan</td>
<td>Dr. Jonathan Epstein</td>
<td>“Modeling Type I Neurofibromatosis in the Zebrafish Danio rerio”</td>
</tr>
<tr>
<td>Xuan Pan</td>
<td>Dr. Michael Atchison</td>
<td>“YY1 Functions in B Lymphocyte Development”</td>
</tr>
<tr>
<td>Shetal Patel</td>
<td>Dr. Celeste Simon</td>
<td>“Functional Analysis of the CDK7/Cyclin H/MAT1 Complex in Mouse Embryonic Stem Cells and Embryos”</td>
</tr>
<tr>
<td>Jeffrey Patterson-Fortin</td>
<td>Dr. Roger Greenberg</td>
<td>“Ubiquitin targeting and editing in cellular responses”</td>
</tr>
<tr>
<td>Lashon Pringle</td>
<td>Dr. Margaret Chou</td>
<td>“Molecular functions of the TRE17/Ubiquitin-Specific Protease 6 (USP6) oncogene: A novel activator of NF-kappa B”</td>
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</table>
## Congratulations 2010-2011 Graduates!

<table>
<thead>
<tr>
<th>Name</th>
<th>Advisor</th>
<th>Title</th>
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<th>Title</th>
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<tbody>
<tr>
<td>Christine Reid</td>
<td>Dr. Daniel Kessler</td>
<td>“Transcriptional Integration of Wnt and Nodal Signals in the Establishment of the Spemann Organizer”</td>
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<tr>
<td>Andrew Rennekamp</td>
<td>Dr. Paul Lieberman</td>
<td>“Initiation of DNA Replication at the Epstein-Barr Virus Origin of Lytic Replication”</td>
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<tr>
<td>Leah Sabin</td>
<td>Dr. Sara Cherry</td>
<td>“The Role of RNA Silencing in Drosophila Antiviral Immunity”</td>
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<tr>
<td>Niraj Shanbhag</td>
<td>Dr. Roger Greenberg</td>
<td>“Chromatin modifications silence transcription in cis to DNA double-strand breaks”</td>
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<tr>
<td>Robert Simone</td>
<td>Dr. Stephen DiNardo</td>
<td>“Epithelial Morphogenesis and Cell Polarity in the Drosophila Embryo and Larvae”</td>
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<tr>
<td>Jennifer Skirkanich</td>
<td>Dr. Peter Klein</td>
<td>“The Role of preMBT Transcription in Xenopus Development”</td>
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<tr>
<td>Jasmine Smith</td>
<td>Dr. Brad Johnson</td>
<td>“Evidence for G-quadruplex-based telomere capping and the presence of G-quadruplex DNA genome-wide”</td>
<td></td>
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<tr>
<td>Jessica Taaffe</td>
<td>Dr. Guido Silvestri</td>
<td>“Comparative Studies of Progressive and Non-Progressive AIDS Virus Infections in Human and Non-Human Primates”</td>
<td></td>
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</tr>
<tr>
<td>Elia Tait Wojno</td>
<td>Dr. Christopher Hunter</td>
<td>“Immunity to Toxoplasma Gondii and the Role of Interleukin-27 and its Subunits in the Regulation of Inflammation”</td>
<td></td>
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</tr>
<tr>
<td>Amy Tsou</td>
<td>Dr. Jun Zhu</td>
<td>“Novel Targets and a Cofactor for the Vibrio cholerae Quorum Sensing Transcriptional Regulator, HapR”</td>
<td></td>
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</tr>
<tr>
<td>Melanie Vishnu</td>
<td>Dr. Stephen Liebhaber</td>
<td>“The RNA-binding Protein alphaCP2 is a Novel Trans Factor Involved in Mediating Cytoplasmic Polyadenylation”</td>
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<tr>
<td>Brenda Watt</td>
<td>Dr. Michael Marks</td>
<td>“Dissecting the PMEL Amyloid: An Example of Functional vs. Pathological Amyloid”</td>
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<tr>
<td>Cara Winter</td>
<td>Dr. Doris Wagner</td>
<td>“Genome-wide analysis of LEAFY target genes reveals insights into reproductive development in Arabidopsis thaliana”</td>
<td></td>
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</tr>
<tr>
<td>David Wise</td>
<td>Dr. Craig Thompson</td>
<td>“Exploring the Role and Regulation of Mitochondrial Glutamine Metabolism in Cancer”</td>
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Michael Granato, Tom Jongens, Amita Sehgal
# 2011 Fall Courses

<table>
<thead>
<tr>
<th>Class</th>
<th>Instructor (s)</th>
<th>Day: Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOM 600 Cell Biology &amp; Biochemistry</td>
<td>J. Weisel</td>
<td>MWF: 10:30am-12pm</td>
</tr>
<tr>
<td>CAMB 518-301: Current Topics in Ion Channels</td>
<td>C. Deutsch</td>
<td>TR: 9:30-10:30am</td>
</tr>
<tr>
<td>CAMB 532-401 Human Physiology</td>
<td>K. Foskett</td>
<td>MWF: 9-10:30am</td>
</tr>
<tr>
<td>CAMB 542-401 Topics in Molecular Medicine (TIMM)</td>
<td>B. Stanger and R. Greenberg</td>
<td>W: 3:30-5:15pm</td>
</tr>
<tr>
<td>CAMB 542-402 Topics in Molecular Medicine (TIMM)</td>
<td>M. Atchinson and N. Mason</td>
<td>W: 5-7pm</td>
</tr>
<tr>
<td>CAMB 547-001 Fundamental Virology</td>
<td>N. Fraser</td>
<td>TR: 1-2:30pm</td>
</tr>
<tr>
<td>CAMB 548-001 Bacteriology</td>
<td>J. Zhu and F. Bushman</td>
<td>MWF: 1:15-2:15</td>
</tr>
<tr>
<td>CAMB 549-001 Parasites and Parasitism</td>
<td>J. Farrell</td>
<td>MWF: 2:30-3:30pm</td>
</tr>
<tr>
<td>CAMB 605-301-304 CAMB First Year Seminar</td>
<td>C. May and J. Seykora</td>
<td>T: 1-4pm</td>
</tr>
<tr>
<td>CAMB 608-301 Regulation of Eukaryotic Gene Expression</td>
<td>J. Zhou, S. Liebhaber, and D. Epstein</td>
<td>T: 3-5pm</td>
</tr>
<tr>
<td>CAMB 609-401 Vaccines and Immune Therapeutics</td>
<td>D. Weiner</td>
<td>WR: 2:30-5pm</td>
</tr>
<tr>
<td>CAMB 610-301 Molecular Basis of Gene Therapy</td>
<td>J. Wilson</td>
<td>MWF: 1-2pm</td>
</tr>
<tr>
<td>CAMB 615-401 Protein Conformational Diseases</td>
<td>Y. Argon and H. Ishiropoulos</td>
<td>M: 3-5pm</td>
</tr>
<tr>
<td>CAMB 617-301 Emerging Infectious Diseases</td>
<td>H. Shen and G. Debes</td>
<td>MW: 10-11:30am</td>
</tr>
<tr>
<td>CAMB 620-301 Thematic Concepts in Developmental Biology</td>
<td>N. Speck and S. DiNardo</td>
<td>T: 10am-12pm</td>
</tr>
<tr>
<td>CAMB 698-301 Elective Tutorials in Cell Biology</td>
<td>J. Burkhardt</td>
<td>See instructor</td>
</tr>
<tr>
<td>CAMB 701-301 Tumor Microenvironment</td>
<td>J. Kissil, S. Ryeom, and N. Scholler</td>
<td>R 12-2pm</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


Brian Johnson and Jamie Weaver
Recent Papers, Continued


Recent Papers, Continued


Recent Papers, Continued


Recent Papers, Continued


Recent Papers, Continued


Recent Papers, Continued


Recent Papers, Continued


On April 16, the GGR program sponsored a booth at the 2011 Philadelphia Science Festival.

Pictured are CAMB students Kevin Tsai, Chris Campbell, Chris Edwards, Julie Crudele and Jessica Bryant.
The PGFI awarded pilot grants to Dr. Ted Abel, Dr. Maja Bucan, Dr. Daniel Rader, and Dr. Sarah Tishkoff.

Dr. Steven M Albelda, is a recipient of the 2010 Wagner Medal, presented by the International Mesothelioma Interest Group.

Dr. Marisa Bartolomei is the 2011 recipient of the Jane M. Glick Graduate Student Teaching Award.

Lauren Bayne (GTV), Samantha Eberle (GGR), Mayumi Miller (DSRB), Andrew Rennekamp (MVP), Monica Teta (CBP), and Patrick Ward (CB) were the recipients of the 2010 CAMB Symposium Poster Awards.

Emily Charlson (MVP) won the ITMAT prize for Clinical Translational Research.

Dr. Vivian Cheung received the Curt Stern Award at this year’s annual meeting of the American Society of Human Genetics.

Dr. George Coukos and Dr. David Weiner are both recipients of the NIH Director’s Transformative Research Projects(T-R01) award.

Dr. Jonathan Epstein, Dr. Katherine High and Dr. Amita Sehgal, have been elected to the American Academy of Arts and Sciences.

Samantha Falk (GGR) was awarded honorable mention in the NSF Graduate Research Fellowship program.

Dr. Roger A. Greenberg is the winner of this year’s Michael S. Brown New Investigator Research Award.

Dr. Todd Lamitina is the recipient of the 2011 Franklin Epstein Fellowship in Molecular and Cellular Physiology.

Dr. Scott Poethig received a 2011 Lindback Award for Distinguished Teaching.

Dr. Daniel Rader, received a grant from the Leducq Foundation to study “Molecular Mechanisms of Novel Genes Associated with Plasma Lipids and Cardiovascular Disease.”

Andrew Rennekamp (MVP) received the 2010 President and Provost’s Citation for Exceptional Commitment to Graduate and Professional Student Life.

Leah Sabin (MVP) and Niraj Shanbhag (CBP), each received the Saul Winegrad Award for Outstanding Thesis.

Dr. Phillip Scott was awarded an International Collaborations in Infectious Disease Research Grant from the NIAID.

Dr. Patrick Seale received a New Innovator Award from the NIH.

Dr. H. Lee Sweeney is the winner of this year’s Stanley N. Cohen Biomedical Research Award.

Dr. Zhaolan (Joe) Zhou, received a 2010 Biobehavioral Research Award for Innovative New Scientists (BRAINS) from the National Institute of Mental Health (NIMH).
Backup Child Care Program
Provost Vincent Price and Vice Provost for Education Andrew Binns are pleased to announce a pilot Backup Child Care Program for students and post-doctoral fellows, which will provide child care in emergencies and other unanticipated situations.

Family Grant Program for PhD Students
In February 2011, Provost Vincent Price and Vice Provost for Education Andrew Binns announced the creation of a Family Grant Program for PhD Students, which will provide need-based grants to Penn PhD students with children.

For more information: [http://www.gsc.upenn.edu/kids/resources.php](http://www.gsc.upenn.edu/kids/resources.php)

Welcome New CAMB Faculty

<table>
<thead>
<tr>
<th>Dr. Igor Brodsky (MVP), Assistant Professor, Pathobiology</th>
<th>Dr. Kristin Lynch (GGR), Associate Professor, Biochemistry and Biophysics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Alice Chen-Plotkin (GGR), Assistant Professor, Neurology</td>
<td>Dr. Jonathan Maltzman (MVP), Assistant Professor, Medicine</td>
</tr>
<tr>
<td>Dr. Michal Elovitz (DSRB), Associate Professor, Obstetrics and Gynecology</td>
<td>Dr. Emile Mohler (GTV), Associate Professor, Medicine</td>
</tr>
<tr>
<td>Dr. Hua-Ying Fan (GGR), Assistant Professor, Biochemistry and Biophysics</td>
<td>Dr. Todd Ridky (CB), Assistant Professor, Dermatology</td>
</tr>
<tr>
<td>Dr. Scott Hensley (MVP), Wistar Institute Assistant Professor, Microbiology</td>
<td>Dr. Sunny Shin (MVP), Assistant Professor, Microbiology</td>
</tr>
<tr>
<td>Dr. Rahul Kohli (MVP), Assistant Professor, Medicine</td>
<td>Dr. Neal Sondheimer (GGR), Assistant Professor, Pediatrics</td>
</tr>
<tr>
<td>Dr. Christopher Lengner (DSRB), Assistant Professor, Animal Biology</td>
<td>Dr. Mariusz Wasik (CB), Professor, Pathology and Laboratory Medicine</td>
</tr>
<tr>
<td>Dr. Carolina López (MVP), Assistant Professor, Pathobiology</td>
<td>Dr. Eric Witze (CB), Assistant Professor, Cancer Biology</td>
</tr>
<tr>
<td>Dr. Wenqin Luo (DSRB), Assistant Professor of Neuroscience</td>
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</tbody>
</table>
Photos in this issue of the CAMB newsletter include images from the 2011 Philadelphia Science Festival, CAMB Events, BGS Graduation, and the University of Pennsylvania Campus in spring.

The University of Pennsylvania values diversity and seeks talented students, faculty and staff from diverse backgrounds. The University of Pennsylvania does not discriminate on the basis of race, color, sex, sexual orientation, gender identity, religion, creed, national or ethnic origin, citizenship status, age, disability, veteran status or any other legally protected class status in the administration of its admissions, financial aid, educational or athletic programs, or other University-administered programs or in its employment practices. Questions or complaints regarding this policy should be directed to the Executive Director of the Office of Affirmative Action and Equal Opportunity Programs, Sansom Place East, 3600 Chestnut Street, Suite 228, Philadelphia, PA 19104-6106; or (215) 898-6993 (Voice) or (215) 898-7803 (TDD).

Future Newsletters
If you have announcements that you would like to include, please contact Anna Kline at akline@mail.med.upenn.edu