Join us in welcoming the incoming class of 2013!

Priya Chatterji (GGR)
Vellore Inst. of Technology

Stephen Goldstein (GTV)
George Washington Univ.

Annie Chen (MVP)
Dartmouth Univ.

Colleen Harrington (CB)
Univ. of Virginia

Aryel Heller (DSRB)
Rutgers Univ.

Ryan Pei Yin Chen (DSRB)
Iowa State Univ.

Lisa Cuolo (CBP)
Williams College

Christin Herrmann (MVP)
Friedrich Schiller Univ. - Jena

Arwa Abbas (MVP)
Rutgers Univ.

Erica Dhuey (CB)
Univ. of California-San Diego

Yangpeiwei Huang (CB)
Peking Univ.

Stephen Bart (MVP)
Univ. of Pittsburgh, Johnstown

Julie Fink (CBP)
Wheaton College

Kelsey Johnson (GGR)
Univ. of Wisconsin-Madison

Joseph Benci (CB)
Cornell Univ.

Shawn Foley (GGR)
Univ. of Pennsylvania

Anna King (DSRB)
Univ. of California-Davis

Christopher Cali (GGR)
Villanova Univ.

Robert French (GTV)
Univ. of Georgia

Terra Kuhn (GGR)
Univ. of Arizona

(Continued on page 2)

Save the date for the 2013 CAMB Symposium

The 17th Annual CAMB Symposium is scheduled for

**October 11, 2013**

in the Perelman Quadrangle. Please put this date on your calendars!

This year, Dr. Sandra Schmid (UT Southwestern) will deliver the keynote address.

More information about the research in her lab can be found at: https://www.utsouthwestern.edu/labs/schmid/.

We look forward to seeing all of the exciting research our students will share this year.

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 students one year past prelim and older are expected to present posters. A panel of faculty judges will award prizes to the top posters at the end of the day.
Incoming class of 2013, Continued

Mi Kwon (CBP)  Julianne Rieders (GTV)  Frances Taschuk (MVP)
Univ. of Pennsylvania  Bryn Mawr College  Swarthmore College

Lillian Lim (DSRB)  Jonathan Rumley (GGR)  David Walter (CB)
Univ. of California-Berkley  Wingate Univ.  Queens Univ.

Mei Lin (CB)  Samantha Russell (DSRB)  Rebecca Windmueller (DSRB)
Peking Univ.  Univ. of Maryland-Baltimore  Univ. of Wisconsin

Devin McDougald (GTV)  Brenda Salantes (GTV)  Caïyue Xu (CB)
Univ. of Southern Mississippi  Mills College  Peking Univ.

Somdutta Mukherjee (DSRB)  Danielle Sanchez (DSRB)  Stephen Zhao (CB)
Univ. of Maryland-College Park  Boston College  Rutgers Univ.

Christopher Natale (DSRB)  Alexandra Stanley (DSRB)  Seth Zost (MVP)
Pennsylvania State Univ.  Univ. of California-San Diego  Univ. of Pennsylvania

Michael Peel (GTV)  Camille Syrett (DSRB)
Villanova Univ.  Allegheny College

2013 FALL ORIENTATION
August 26-30, 2013

Announcements and Awards

Dr. Ishmail Abdus-Saboor (GGR) was awarded the Tom Kadesch Prize in Genetic Research.

Dr. David Artis has received the AAI-BD Biosciences Investigator Award for outstanding, early-career research contributions to the field of immunology from the American Association of Immunologists (AAI).

Dr. Artis is also the recipient of the Stanley N. Cohen Biomedical Research Award.

Dr. Lauren Bayne (GTV) and Dr. Stephan Kadowe (GTV) received the Saul Winegrad Award for Outstanding Dissertation.

Dr. Shelley L. Berger and Dr. Virginia Man-Yee Lee, have been elected as new members to the American Academy of Arts and Sciences.

Dr. Shelley Berger was named Fellow of the American Association for the Advancement of Science.

Dr. Dustin Brisson was named a 2013 Investigator in the Pathogenesis of Infectious Disease by the Burroughs Wellcome Fund.

Andria Culbert (GTV) received the Outstanding Poster Award at the Gordon Research Conference: Cartilage Biology and Pathology. Les Diablerets, Switzerland.

Dr. Olena Jacenko has been awarded the Vet Medicine Class of 2016 Lecture Teaching Award.

Brian Johnson (GGR) was awarded the 2013 UNCF-Merck Graduate Science Research Fellowship.

Dr. Carl H. June has been selected to receive the 2012 Philadelphia Award.

Dr. Carl H. June was also honored as a recipient of the American Society of Hematology’s 2012 Ernest Beutler Lecture and Prize.

Dr. Mitchell Lazar was elected to serve as a council member, at-large of The Endocrine Society.

(Continued on page 3)
A great big Thank You to all the students who helped make our 2013 PhD Admissions Season a success!

2013 PhD Admissions Student Leaders: Mike Convente, Tanya Corman, Hilary DeBardeleben, Jason Diaz, Dan Feng, David Frederick, Erin Graf, Sudil Mahendra, Ian Silverman.

We couldn’t do it without you!

Announcements and Awards

Dr. Nicola Mason and Dr. Yvonne Paterson, are the co-recipients of the inaugural One Health Award.

Dr. Daniel Rader has been awarded the American Heart Association’s (AHA) Clinical Research Prize.

Ali Rosenberg (DSRB) won the 2012 Nachmias Thieman Award.

Dr. Anil K. Rustgi is the recipient of the Arthur Asbury Outstanding Faculty Mentor Award.

Dr. Amita Sehgal received a Senior Scholar Award from the Ellison Medical Foundation.

Dr. James Shorter is the recipient of the Michael S. Brown New Investigator Award.

Dr. Meera Sundaram received the Jane Glick Graduate Student Teaching Award.

Dr. Robert H. Vonderheide is the recipient of the William Osler Patient Oriented Research Award.

Joseph Zinski (DSRB) won the 1st place award for his talk at the Mid-Atlantic Society for Developmental Biology meeting at the College of William & Mary, Williamsburg, Virginia.

Spring blooms in the James G. Kaskey Memorial Garden

2012 Holiday Party

Qi Fu, Jamie Knox, Xiu Li Sim, Melissa Ducommun, Rianne Esquivel, Michael Herriges

2012 Holiday Party

Alexandra Bryson, April Giles, Kristel Emmer

Rachel Leibman, Jason Diaz, Mike Hogan
Congratulations to our 2012—2013 Graduates!

Jacqueline Avila
Advisor: Dr. Joseph Kissil
“The Role of Notch1 in K-Ras Induced Pancreatic Ductal Adenocarcinoma”

Lauren Bayne
Advisor: Dr. Robert Vonderheide
“Inflammatory Networks and T Cell Immunosurveillance in Pancreatic Cancer”

Becky Brisson
Advisor: Dr. Elisabeth Barton
“Synergy Between Insulin-like Growth Factor-I (IGF-I) E-Peptides and IGF-I Signaling Alters Growth in Skeletal Muscle”

Alexander Brown
Advisor: Dr. Douglas Epstein
“The Function of Hedgehog and WNT Signaling Pathways in Otic Development”

George Buchlis
Advisor: Dr. Katherine High
“Advances and Challenges in Human AAV-Mediated Gene Transfer: Immunological Insights from a Mouse Model of Human Glycosylation”

Emily Charlson
Advisors: Dr. Frederic Bushman and Dr. Ronald Collman
“The Human Respiratory Tract Microbiome in Health and Disease”

Sarah Clark
Advisor: Dr. Jeffrey Weiser
“Evasion of Host Recognition by Phase Variation in Haemophilus influenzae”

Alison Dell
Advisor: Dr. Jonathan Raper
“cAMP Promotes Retinal Midline Crossing at the Zebrafish Optic Chiasm”

Dan Feng
Advisor: Dr. Mitchell Lazar
“Epigenomic and Transcriptional Regulation of Hepatic Metabolism by REV-ERB and HDAC3”

Jamie Fox
Advisor: Dr. Andrei Thomas-Tikhonenko
“Novel Mechanisms of MicroRNA-mediated Regulation of Key TGFβ Effector CTGF in Glioblastoma Multiforme”

Erin Graf
Advisor: Dr. Una O’Doherty
“Clinical Measures of HIV Provide Insight into Determinants of Reservoir Size”

Jennifer Grier
Advisor: Dr. Jordan Orange
“A Role for CD16 in Natural Killer Cell-mediated Spontaneous Cytotoxicity Identified via a Human Immunodeficiency-causing Germline Mutation”

Derek Johnson
Advisor: Dr. Youhai Chen
“The Role of TIE2 in the Regulation of Inflammation and Tumorigenesis”

Stephan Kadauke
Advisor: Dr. Gerd Blobel
“Tissue-specific Epigenetic Bookmarking to Preserve Transcriptional Programs Through Mitosis”

Jacob Lazarus
Advisor: Dr. Erika Holzbaur
“Cytoplasmic Dynein and Dynactin Coordinate Microtubule Dynamics at the Growing Plus End”

Eric Lee
Advisor: Dr. Alan Diehl
“FBXO4 Opposes Cyclin D1 Accumulation and the Tumorigenic Potential of BRAFV600E in Melanoma”

Grace Lin
Advisor: Dr. Christopher Chen
“Integrins and Forces in Mesenchymal Stem Cell Differentiation”

Chao Lu
Advisor: Dr. Craig Thompson
“Epigenetic Basis for the Oncogenic Potential of IDH Mutations”

Daniel Lysko
Advisor: Dr. Jeffrey Golden
“Elucidating the Role of SDF1 Signaling During Cortical Interneuron Migration”

Amar Majmundar
Advisor: Dr. Celeste Simon
“O2- and HIF1alpha-Dependent Regulation of Skeletal Muscle Progenitor Differentiation and Skeletal Muscle Regeneration”

“TISSUE-SPECIFIC EPIGENETIC BOOKMARKING TO PRESERVE TRANSCRIPTIONAL PROGRAMS THROUGH MITOSIS”
-S. KADAUKE

Page 4
2012—2013 Graduates!

Ashley Mentlik  
Advisor: Dr. Jordan Orange  
“Lytic Granule Convergence to the Microtubule Organizing Center in Natural Killer Cells”  

Mayumi Miller  
Advisor: Dr. Edward Morrisey  
“WNT2 and WNT7B Cooperative Signaling in Lung Development”  

Natalie Miller  
Advisor: Dr. David Roos  
“Toxoplasma gondii Diversity—From Seroprevalence in Multiple Host Species to Genotyping Analysis of Field Isolates”  

Melanie Miltholland  
Advisor: Dr. Doron Greenbaum  
“Host-Apicomplexan Parasite Interactions: Leveraging Biological Discovery into Antiparasitic Drug Development”  

Samuel Minot  
Advisor: Dr. Frederic Bushman  
“Evolution and Dynamics of the Human Gut Virome”  

Karen Ocwieja  
Advisor: Dr. Frederic Bushman  
“Patterns of HIV Integration and Splicing: Windows on Mechanism”  

Michael O’Donnell  
Advisor: Dr. Greg Bashaw  
“Signal Transduction Mechanisms in Commissural Axon Guidance: The Role of Intracellular Tyrosine Kinases in NetrinDCC/Frazzled Axon Attraction”  

Matthew Pace  
Advisor: Dr. Una O’Doherty  
“HIV Gag Expression During Latent Infection: Is the Reservoir Really Invisible”  

Tatyana Panchenko  
Advisor: Dr. Ben Black  
“Centromeric Chromatin: Structure, Function and Epigenetic Inheritance”  

Nicholas Parrish  
Advisor: Dr. Beatrice Hahn  
“Phenotypic Characteristics of Transmitted/FounderHIV-1”  

Gregory Peterfreund  
Advisors: Dr. Frederic Bushman and Dr. Jun Zhu  
“Bacterial and Microeukaryotic Succession in the Gut Microbiome”  

Alanna Strong  
Advisor: Dr. Daniel Rader  
“Sortilin as a Novel Regulator of Plasma Cholesterol, Very-low Density Lipoprotein Secretion and LDL Catabolism”  

Austin Thiel  
Advisor: Dr. Xianxin Hua  
“The Central Role of Menin and Wild-Type MLL in MLL-AF9-Induced Leukemia”  

Alexander Valvezan  
Advisor: Dr. Peter Klein  
“Novel Roles for the Tumor Suppressor APC Through Regulation of GSK-3”  

Patrick Ward  
Advisors: Dr. Garret FitzGerald and Dr. Craig Thompson  
“The Common Feature of Cancer-Associated IDH1 and IDH2 Mutations is a Neomorphic Enzyme Activity Converting α-Ketoglutarate to the Oncometabolite 2-Hydroxyglutarate”  

Jamie Weaver  
Advisor: Dr. Marisa Bartolomei  
“Interrelated Roles of Repressive Chromatin Modifiers in Genomic Imprinting”  

Jason Wojcechowskyj  
Advisor: Dr. Robert Doms  
“HIV-induced Cellular Reprogramming: Insights from Phosphoproteomics”  

Gabrielle Wong  
Advisor: Dr. Anil Rustgi  
“Periostin and its Role in Promoting Invasion in the Tumor Microenvironment of Esophageal Cancer”  

Erin Graf celebrating graduation with family and friends.
2012—2013 Graduates!

Waihay Wong
Advisor: Dr. Celeste Simon
“Hypoxic Regulation of MYC and Epidermal Barrier Development”

Te-Lang Brian Wu
Advisor: Dr. Hildegund Ertl
“Adaptive Immune Responses to Adeno-Associated Virus (AAV) Vector-Mediated Gene Transfer”

Jie Xu
Advisor: Dr. Sara Cherry
“Discovering Novel Intrinsic Antiviral Responses to Arboviruses: From Transcription to Intestinal Innate Immunity”

Student Publications


(Continued on page 7)


(Continued on page 8)


(Continued on page 9)
Student Publications, Continued


Sundararaman SA, et al., Plasmodium falciparum-like parasites infecting wild apes in southern Cameroon do not represent a recurrent source of human malaria. PNAS 2013 110 (17) 7020-7025


## 2013-14 Admissions

### Mark Your Calendars!

DSRB students celebrate the end of prelims.

### Schedule of Faculty Interview Times

#### MD/PhD Friday Interviews
November 8 & 22, and January 10
- 11:00—11:30
- 11:45—12:15
- 12:30—1:00
- 2:00—2:30
- 2:45—3:15
- 3:30—4:00

#### PhD Friday Interviews
January 17 & 31, and February 21
- 10:00—10:30
- 10:45—11:15
- 2:15—2:45
- 3:00—3:30

### November 2013 Calendar

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**MD/PhD Recruiting**

### January 2014 Calendar

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**MD/PhD Recruiting**

**PhD Recruiting**

### February 2014 Calendar

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**PhD Recruiting**
### Summer 2013

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.

### Fall 2013 CAMB Course List

<table>
<thead>
<tr>
<th>Class</th>
<th>Instructor(s)</th>
<th>Day: Time</th>
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<tbody>
<tr>
<td>BIOM 600 Cell Biology &amp; Biochemistry</td>
<td>J. Weisel</td>
<td>MWF: 10:30am-12pm</td>
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<tr>
<td>CAMB 518-301 Current Topics in Ion Channels</td>
<td>C. Deutsch</td>
<td>TR: 9:30-10:30am</td>
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<tr>
<td>CAMB 530-301 The Cell Cycle, Genome Integrity and Cancer</td>
<td>A. Diehl and E. Brown</td>
<td>W: 1-3pm</td>
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<tr>
<td>CAMB 532-401 Human Physiology</td>
<td>K. Foskett and T. Lamitina</td>
<td>MWF: 9-10:30am</td>
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<tr>
<td>CAMB 542-401 Topics in Molecular Medicine (TIMM)</td>
<td>B. Stanger and R. Kohli</td>
<td>W: 3:30-5:15pm</td>
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<tr>
<td>CAMB 542-402 Topics in Molecular Medicine (TIMM)</td>
<td>M. Atchison and N. Mason</td>
<td>W: 5-7pm</td>
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<tr>
<td>CAMB 547-001 Fundamental Virology</td>
<td>N. Fraser and M. Weitzman</td>
<td>TR: 1-2:30pm</td>
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<tr>
<td>CAMB 548-001 Bacteriology</td>
<td>J. Zhu and F. Bushman</td>
<td>MWF: 1:15-2:15</td>
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<td>CAMB 549-001 Parasites and Parasitism</td>
<td>J. Lok and C. Hunter</td>
<td>MF: 2:30-3:30pm, W: 1:30-2:30pm</td>
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<tr>
<td>CAMB 605 (301-304) CAMB First Year Seminar</td>
<td>J. Seykora</td>
<td>T: 1-4pm</td>
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<tr>
<td>CAMB 608-301 Regulation of Eukaryotic Gene Expression</td>
<td>Z. Zhou, S. Liebhaber and D. Epstein</td>
<td>T: 3-5pm</td>
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<tr>
<td>CAMB 609-401 Vaccines and Immune Therapeutics</td>
<td>D. Weiner</td>
<td>WR: 2:30-5pm</td>
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<tr>
<td>CAMB 610-301 Molecular Basis of Gene Therapy</td>
<td>J. Wilson</td>
<td>MWF: 1-2pm</td>
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<tr>
<td>CAMB 617-301 Emerging Infectious Diseases</td>
<td>S. Hensley, H. Shen, and P. Bates</td>
<td>MW: 10-11:30am</td>
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<tr>
<td>CAMB 620-301 Thematic Concepts in Developmental Biology</td>
<td>S. DiNardo and N. Speck</td>
<td>T: 10am-12pm</td>
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<tr>
<td>CAMB 698-301 Elective Tutorials in Cell Biology</td>
<td>J. Burkhardt</td>
<td>See instructor</td>
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<tr>
<td>CAMB 701-301 Tumor Microenvironment</td>
<td>S. Ryeom, D. Feldser, and E. Puré</td>
<td>R 11am-1pm</td>
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</table>
Dedicated to the search for new knowledge

UNIVERSITY OF PENNSYLVANIA

CAMB Graduate Group
Future Newsletters
If you have information or announcements you would like to have included, please contact us at:

Phone: 215-898-4360
Fax: 215-898-8778
E-mail: akline@upenn.edu

Photos in this issue of the newsletter include images from recent CAMB events, and around the University of Pennsylvania.

New Cell and Molecular Biology Graduate Group Faculty

Montserrat Alguerra (CBP)
Hui Hu (GTV)
Benjamin Voight (GGR)

Stewart Anderson (DSRB)
Brendan Keating (GGR)
Matthew Weitzman (MVP)

Maya Capelson (DSRB)
Minghong Ma (CBP)
Gary Wu (CBP)

David Feldser (CB)
Michael Milone (GTV)
Rugang Zhang (CB)

Benjamin Garcia (GGR)
Hiroshi Nakagawa (CB)

Hakon Hakonarson (GGR)
Katalin Susztak (GGR)

We’re on the Web!
www.med.upenn.edu/camb

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