Dr. Thompson joined Penn in 1999 as a Professor of Medicine, Scientific Director of The Leonard and Madlyn Abramson Family Cancer Research Institute, and Penn’s first Chair of the Department of Cancer Biology. He is now also the Director of the Abramson Cancer. Last year, he was elected a member of the prestigious National Academy of Sciences, an honor awarded to only four cancer scientists in 2005.

After an undergraduate career at Dartmouth Medical School, Dr. Thompson received his MD degree from the University of Pennsylvania in 1977. He received clinical training in Internal Medicine at Harvard University and in Medical Oncology at the Fred Hutchinson Cancer Research Institute at the University of Washington. In 1987, Dr. Thompson joined the faculty of the University of Michigan as an Assistant Professor in Medicine and an Assistant Investigator in the Howard Hughes Medical Institute. In 1993, he moved to the University of Chicago and was promoted to Professor of Medicine, Investigator in the Howard Hughes Medical Institute, and Director of the Gwen Knapp Center for Lupus and Immunology Research.

Dr. Thompson currently serves as Chairman of the Medical Advisory Board of the Howard Hughes Medical Institute, Vice Chairman of the GM Cancer Research Prize Committee, a member of the Lasker Prize Jury, and as an Associate Editor of *Cell, Science, Immunology*, and *Cancer Cell*. Dr. Thompson is the holder of a number of patents related to immunotherapy and apoptosis, and is a founder of two biotechnology companies. In addition to the National Academy of Sciences, Dr. Thompson is an elected member of the Institute of Medicine, the American Academy of Arts and Sciences, the American Society for Clinical Investigation, and the American Association of Physicians.

**bio from SOM press release**

The CAMB Annual Symposium is a full day (8:30 –6:00) of science and social interaction for CAMB faculty and students. Talks will be presented by three 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 $100 prizes to the top posters at the end of the day.
The **2008 admission weekends** will be:
- January 17th – 19th
- February 7th – 9th
- February 28th – March 1st
Please put these dates on your calendar.

The CAMB office would like to thank everyone involved this season for their hard work, especially the student leaders:
- Balpreet Bhogal, Stacie Dilks, Margaret Fleetwood, Kelly Howell, Andrew J. Rennekamp, Steven Saenz, Adam Seibert, Elia Tait and Katie Wharry

### Admission Season 2007

Please join us in welcoming the 36 CAMB PhD students who will matriculate in 2007

<table>
<thead>
<tr>
<th>Name</th>
<th>University/Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lara Abramowitz</td>
<td>University of Rochester</td>
</tr>
<tr>
<td>Joshua Abrams</td>
<td>North Carolina State University</td>
</tr>
<tr>
<td>Lauren Bayne</td>
<td>Bucknell University</td>
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<tr>
<td>George Buchlis</td>
<td>Cornell University</td>
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<tr>
<td>Xiwen Chen</td>
<td>Nanjing University</td>
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<tr>
<td>Elizabeth Cramer</td>
<td>Penn State University</td>
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<tr>
<td>Korey Demers</td>
<td>Case Western Reserve University</td>
</tr>
<tr>
<td>Christopher Dupont</td>
<td>Suny College at Geneseo</td>
</tr>
<tr>
<td>Dan Feng</td>
<td>Tsinghua University</td>
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<tr>
<td>Erin Frey</td>
<td>Desales University</td>
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<tr>
<td>Sarah Fintushel</td>
<td>University of Michigan</td>
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<tr>
<td>Eric Friske</td>
<td>University of Wisconsin Madison</td>
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<tr>
<td>Skye Geherin</td>
<td>Virginia Polytechnic</td>
</tr>
<tr>
<td>Elise Giantomaso</td>
<td>Drexel University</td>
</tr>
<tr>
<td>Arielle Glatman Zaretsky</td>
<td>Brown University</td>
</tr>
<tr>
<td>Tagan Griffin</td>
<td>Arizona State University</td>
</tr>
<tr>
<td>Jason Jung</td>
<td>University California Berkeley</td>
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<tr>
<td>Rachel Kadzik</td>
<td>Oberlin College</td>
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<tr>
<td>Rebecca Lijek</td>
<td>Haverford College</td>
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<tr>
<td>Julie Magallanes</td>
<td>University California Los Angeles</td>
</tr>
<tr>
<td>Elizabeth Morton</td>
<td>University of Montana</td>
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<tr>
<td>Matthew Pace</td>
<td>St Joseph's University</td>
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<tr>
<td>Arun Padmanabhan</td>
<td>Washington University</td>
</tr>
<tr>
<td>Carolina Pombo-Martinez</td>
<td>Barry University</td>
</tr>
<tr>
<td>Ruchira Ranaweera</td>
<td>Rutgers University New Brunswick</td>
</tr>
<tr>
<td>Emma Reuschel</td>
<td>Illinois College</td>
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<tr>
<td>Allison Rosenberg</td>
<td>Haverford College</td>
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<tr>
<td>Hannah Schoch</td>
<td>Drexel University</td>
</tr>
<tr>
<td>Zhewei Shen</td>
<td>University California Los Angeles</td>
</tr>
<tr>
<td>Juliana Small</td>
<td>Rutgers University New Brunswick</td>
</tr>
<tr>
<td>Kristin Toscano</td>
<td>University of Florida</td>
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<tr>
<td>Nathan Vande Burgt</td>
<td>Calvin College</td>
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<tr>
<td>Jason Wojcechowskyj</td>
<td>University Wisconsin Madison</td>
</tr>
<tr>
<td>Gabrielle Wong</td>
<td>University California Berkeley</td>
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<tr>
<td>Te-Lang Wu</td>
<td>University of Pennsylvania</td>
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<tr>
<td>Allison Zajac</td>
<td>University of Pennsylvania</td>
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</tbody>
</table>
August Graduation

10 CAMB students received PhDs in August 2006.

- Michael Buckstein
  Advisor: Harvey Rubin
  "A Novel HPLC Based Approach to Characterizing and Quantitating Nucleotide Pools in Bacteria"

- Marcus Gustafsson
  Advisor: Charles Emerson & Daniel Kessler
  "Regulation of Epaxial Myogenesis and MYF5 Expression by SHH Signaling, GLI Activation, and BMP Antagonism"

- Scott E. Hensley
  Advisor: Hildegund Ertl
  "The Effects of Type I Interferons Following Vaccination with Adenovirus Vectors"

- Manami Nishi
  Advisor: David Roos
  "Cell Cycle Regulation of Organelle Biogenesis and Apicoplast Protein Trafficking in Toxoplasma Gondii"

- Chelsea C. Pinnix
  Advisor: Meenhard Herlyn
  "Notch1 Activation Confers Transforming Properties to Primary Human Melanocytes and Promotes Human Melanoma Progression"

- Evan C. Ray
  Advisor: Carol Deutsch
  "The Role of Intracellular Cations in Kv Channel Gating"

- Anna F. Rives
  Advisor: Stephen DiNardo
  "Endocytosis and Signaling in the Drosophila Wingless (WNT-1) Pathway"

- Claudia E. Robert
  Advisor: Bryan Wolf
  "Characterization of a Transgenic Mouse Tissue-Specifically Overexpressing Pancreatic Derived Factor (Pander), A Novel, Pancreas Specific Cytokine-Like Molecule"

- Melissa D. Sanchez
  Advisor: Robert Doms
  "Characterization of Neutralizing Antibodies Against West Nile Virus in Mice and Horses"

- Robert W. Schnepp
  Advisor: Xianxin Hua
  "The Tumor Suppressor Menin Promotes Apoptosis and Inhibits Cell Cycle Progression"

December Graduation

17 CAMB students received PhDs in December 2006.

- Francesca Duncan
  Advisor: Carmen Williams & Richard Schultz
  "The Role of Par-3 (Partitioning Defective Gene-3) in the Development of Asymmetry during Mouse Meiotic Maturation"

- Penney M Gilbert
  Advisor: Valerie Weaver
  "The Role of HOXA9 in Breast Cancer Progression"

- Beth Holloway
  Advisor: Mary Mullins
  "The Role of Betta Boop, the Zebrafish Homologue of Mapkapk2, During Epiboly"

- Lauren Hook
  Advisor: Harvey Friedman
  "Herpes Simplex Virus Immune Evasion from Antibody and Complement"

- Yasuhiko Irie
  Advisor: Ming Yuk
  "Properties of Surface-Associated Aggregated Growth of Bordetella Bronchiseptica"

- Nicholas W. Keiser
  Advisor: Jean Bennett
  "Molecular Mechanisms of Two Inherited Retinal Degenerations Affecting the Retinal Pigment Epithelium"

- Katherine S. Masek
  Advisor: Christopher Hunter
  "Calcium Signaling in Innate Recognition of Toxoplasma Gondii"
May Graduation

8 CAMB students received PhDs in May 2007.

Daria Babushok
Advisor: Haig Kazazian
"Role of Line-1 Retrotransposon in Genome Evolution: Mechanisms of L1 Integration and L1-Mediated Creation of New Genes"

Monica Buzzai
Advisor: Craig Thompson
"The Role of AMPK in Modulating the Metabolism and Survival of Cancer Cells"

Tina Franklin-Dumont
Advisor: Steve DiNardo
"Counting Up Off Schedule: Investigating the Timing of Developmental Transitions in the Drosophila Testis"

David Garbe
Advisor: Greg Bashaw
"Integration and Regulation of Attractive and Repulsive Axon Guidance at the Drosophila Midline"

Steven Gibson
Advisor: Greg Enders
"Inhibition of Colon Tumor Progression and Angiogenesis by the INK4A/ARF Locus"

Colleen Kane
Advisor: Edward Pearce
"Helminth Antigens Modulate TLR-Ligand Induced Dendritic Cell Activation"

Sagar Kudchodkar
Advisor: James Alwine
"Dealing with Stress Human Cytomegalovirus Maintains Translation in Cells Under Adverse Conditions"

Erinn Bruno Rankin
Advisor: Volker Haase
"The Role of Hypoxia Inducible Factor Family Members in the Development of VHL Disease"
### CAMB Fall Courses

<table>
<thead>
<tr>
<th>Class</th>
<th>Instructor (s)</th>
<th>Day: Time</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BIOM 600: Cell Biology and Biochemistry</strong></td>
<td>M. Ostap</td>
<td>M, W, F: 10:30 - 12:00</td>
</tr>
<tr>
<td>CAMB 513: Evolution in Cancer</td>
<td>C. Maley</td>
<td>T, R: 11-1</td>
</tr>
<tr>
<td>CAMB 518: Current Topics in Ion Channels</td>
<td>C. Deutsch, F. Horrigan</td>
<td>TBD</td>
</tr>
<tr>
<td>CAMB 530: Seminar in Cell Growth and Cancer</td>
<td>A. Diehl, R. Assoian</td>
<td>M: 2-4</td>
</tr>
<tr>
<td>CAMB 532: Integrative Physiology</td>
<td>M. Pring</td>
<td>T, W, F: 2:30 - 4</td>
</tr>
<tr>
<td>CAMB 542-401: Topics in Molecular Medicine -</td>
<td>M. Kahn, R. Wells</td>
<td>W: 3:00 - 5:00</td>
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<tr>
<td>(MD / PhD only)</td>
<td></td>
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<tr>
<td>CAMB 542-402: Topics in Molecular Medicine -</td>
<td>M. Atchison</td>
<td>W: 5 - 7</td>
</tr>
<tr>
<td>(VMD/PhD, PhD, and MD/PhD )</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>CAMB 590: Topics in Microbiology, Virology and Parasitology</strong></td>
<td>P. Bates, E. Pearce, R. Doms</td>
<td>T, R: 10 - 11:30</td>
</tr>
<tr>
<td>CAMB 597: Developmental Neuroscience</td>
<td>M. Granato</td>
<td>W, F: 10:45 - 12:30</td>
</tr>
<tr>
<td>CAMB 605: First Year Seminar</td>
<td>D. Epstein</td>
<td>T: 1 - 4</td>
</tr>
<tr>
<td>CAMB 608: Regulation of Eukaryotic Gene Expression</td>
<td>T. Kadesch</td>
<td>T: 3 - 5</td>
</tr>
<tr>
<td>CAMB 609: Vaccines &amp; Immune Therapeutics</td>
<td>D. Weiner, P. Offit, J Boyer</td>
<td>W, R: 3-5</td>
</tr>
<tr>
<td>CAMB 610: Molecular Basis of Gene Therapy</td>
<td>J. Wilson, J. Glick</td>
<td>M, W, F: 9 - 10</td>
</tr>
<tr>
<td>CAMB 617: Emerging Infectious Diseases</td>
<td>H. Shen</td>
<td>M, W, F: 10-11:30</td>
</tr>
<tr>
<td>CAMB 620: Molecular Mechanisms of Development</td>
<td>S. DiNardo</td>
<td>T: 10 -12</td>
</tr>
<tr>
<td><strong>CAMB 630: Topics in Human Genetics and Disease</strong></td>
<td>N. Spinner, E. Shore, T. Shaikh, S Grant, M Devoto</td>
<td>R: 1:30, 3:30</td>
</tr>
</tbody>
</table>

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.

### Saul Winegrad Awards for Outstanding Dissertation

#### Congratulations to:

- **Sagar Kudchodkar**  
  Advisor: James Alwine

- **Erinn Bruno Rankin**  
  Advisor: Volker Haase
Recent Papers from Students


Recent Papers from Students cont..


Recent Papers from Students cont..


Roth-Cross, J.K., L. Martinez-Sobrido, E.P. Scott, A. Garcia-Sastre, S.R. Weiss. (2007) Inhibition of the IFN-Alpha/Beta Response by Mouse Hepatitis Virus (MHV) at


Recent Papers from Students cont..


Honors & Awards

Dr. Britton Chance, professor emeritus of biochemistry and biophysics, received the 2006 Distinguished Achievement Medal of the American Aging Association.

Dr. Yongwon Choi, professor of pathology and laboratory medicine, has received the Ho-Am Prize in Medicine.

Dr. George Coukos, the Césio Ramon Garcia Associate Professor of Gynecological Oncology in the department of obstetrics and gynecology, has received the William Osler Patient Oriented Research Award.

Dr. M. Fevzi Daldal, professor of biology, SAS, has been named a Fellow of the American Association for the Advancement of Science (AAAS).

Dr. Helen C. Davies, professor of microbiology, and Ombudsman at the School of Medicine, has been awarded an Alpha Omega Alpha Robert J. Glaser Distinguished Teacher Award.

Dr. Phyllis Dennery, professor of pediatrics and Werner and Gertrude Henle Endowed Chair in Pediatrics at CHOP, has received the Alfred Stengel Health System Champion Award.

Dr. David L. Gasser, professor of genetics, is the recipient of the Medical Student Government Teaching Award in Basic Science.

Dr. Francisco González-Scarano, professor of microbiology and chair of the department of neurology, has been elected to the Institute of Medicine.

Dr. Michael Granato, associate professor of cell and molecular biology in Penn Medicine, has been awarded the Friedrich Wilhelm Bessel Research award by the Alexander von Humboldt Foundation of Bonn, Germany.

Dr. Mark Greene, John Eckman Professor of Medical Science, was awarded the Robarts Research Institute’s 22nd annual J. Allyn Taylor International Prize in Medicine for his research in breast cancer.

Dr. Haig H. Kazazian, Jr., Seymour Gray Professor of Molecular Medicine in Genetics was named a Fellows of the American Academy of Arts and Sciences.

Dr. Gary Koretzky, the Leonard Jarett Professor of Pathology and Laboratory Medicine, has received the Arthur K. Asbury Outstanding Faculty Mentor Award.

Dr. Mitchell Lazar, Sylvan H. Eisman Professor of Medicine and Genetics, is the 2006 recipient of The Endocrine Society’s Edwin B. Astwood Award Lecture.

Dr. Mitchell Lazar, Sylvan H. Eisman Professor of Medicine, has been elected to the Institute of Medicine.

Dr. James Sparky Lok, professor of parasitology, dept of pathobiology He received the 2006 Dean’s Award for Leadership in Basic Science.

Dr. Zissimos Mourelatos, assistant professor of pathology and laboratory medicine, has received the Michael S. Brown New Investigator Research Award.

Dr. Jordan Orange, assistant professor of pediatrics, is the recipient of the Leonard Berwick Memorial Teaching Award recognizing outstanding fusion of basic science and clinical medicine.

Dr. Jean-Pierre Saint-Jeannet, associate professor of developmental biology, received the 2007 Dean’s Award for Leadership in Basic Science Education.

Dr. Amita Sehgal, professor of neuroscience and investigator in the Howard Hughes Medical Institute, has received the 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:

**Gustavo Aguirre**, Professor of Medical Genetics and Ophthalmology  
**Ben Black**, Assistant Professor of Biochemistry and Biophysics  
**Jean D. Boyer**, Associate Research Professor of Path and Lab Medicine  
**Tim Brazelton**, Assistant Professor of Surgery  
**George Coukos**, Assistant Professor of Obstetrics and Gynecology  
**Tom Curran**, Professor of Pathology & Lab Medicine  
**Mark Forman**, Assistant Professor of Pathology & Lab Medicine  
**Aaron Gitler**, Assistant Professor of Cell and Developmental Biology  
**Roger Greenberg**, Assistant Professor of Cancer Biology, Pathology  
**Kurt Hankenson**, Assistant Professor of Animal Biology  
**Tejvir Khurana**, Associate Professor of Physiology  
**Constantinos Koumenis**, Associate Professor of Radiation Oncology  
**Claude Krummenacher**, Assistant Professor of Biochemistry  
**Todd Lamitina**, Assistant Professor of Physiology  
**Michael Lampson**, Assistant Professor of Biology  
**Carlo Maley**, Assistant Professor of Molecular and Cellular Oncogenesis  
**Catherine Lee May**, Assistant Professor of Path & Lab Medicine  
**Kathryn Nathanson**, Assistant Professor of Medicine  
**Aimee Payne**, Assistant Professor of Dermatology  
**Diana Ramírez Bergeron**, Assistant Professor of Path & Lab Medicine  
**James Shorter**, Assistant Professor of Biochemistry and Biophysics  
**Ben Stanger**, Assistant Professor of Medicine  
**Wei Tong**, Assistant Professor of Pediatrics  
**Barry Ziober**, Assistant Professor of Otorhinolaryngology
CAMB Raiders 2006

Back Row (R to L): Anthony Pajero, Jenn Levy, Michele Hickey, Jason Skinner, Sagar Kudchodkar, Christa Heyward.
Front Row (R to L): Nick Sicilian, Katie Wharry, David Garbe, Laura Conlin
Not Pictured: Beth Burke, Sheri Hanna, Yasuhiko Irie, Earl Stoddard

Student Members of the CAMB Executive Committee

We want to thank Justin DiAngelo for his work on the CAMB Executive committee. His input has been greatly appreciated. His two year term is over, so we are looking for a new student representative.

To volunteer, you should have passed your prelim and plan to be here approximately two more years. An ideal candidate would be a rising 3rd or 4th year student.

The committee meets once a month, usually on the third Monday of the month. If you are interested in serving as a student representative to the committee please contact Meagan Schofer at mschofer@mail.med.upenn.edu

NRSA

Congratulations to
Steven Saenz
for receiving a National Research Service Awards for Individual Predoctoral Fellowship

Births

Congratulations to
David Garbe recent CAMB Graduate
On the birth of his daughter Emily Garbe

Future Newsletters

If you have announcements that you would like to include, please contact Meagan Schofer, mschofer@mail.med.upenn.edu