



Biological Discovery in Woods Hole

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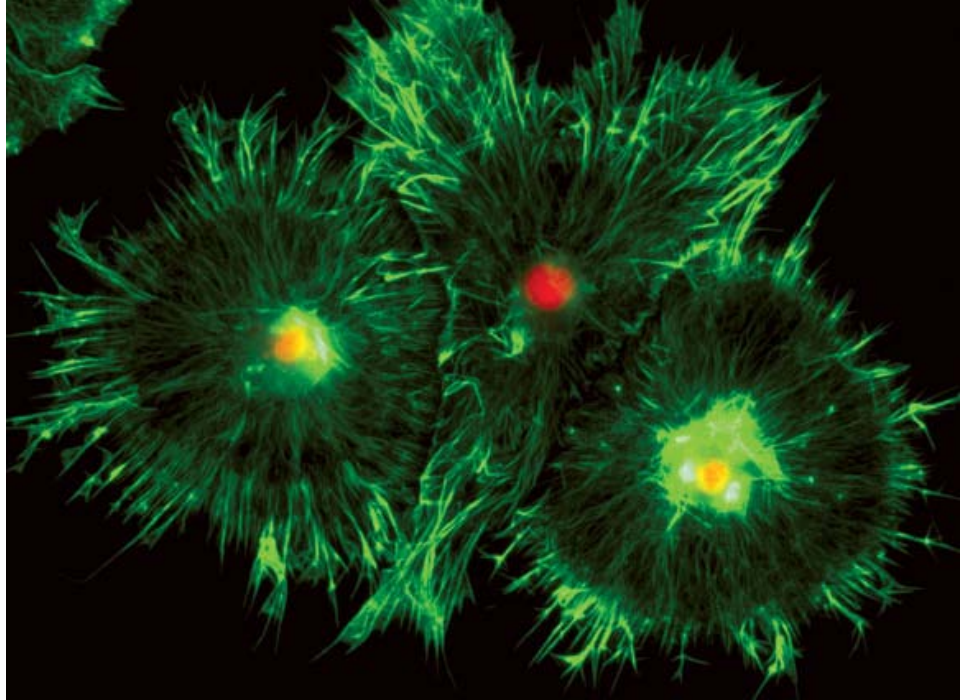
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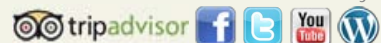
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Josephine Bay Paul Center for Comparative Molecular Biology and Evolution



In the Josephine Bay Paul Center for Comparative Molecular Biology and Evolution, scientists explore the evolution and interaction of genomes of diverse organisms with significant roles in environmental biology and human health. Bay Paul Center scientists integrate the powerful tools of genome science, molecular phylogenetics, and molecular ecology to advance our understanding of how living organisms are related to each other, to provide the tools to quantify and assess biodiversity, and to identify genes and metabolic processes of ecological and biomedical importance.

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Eugene Bell Center for Regenerative Biology & Tissue Engineering



The Eugene Bell Center for Regenerative Biology and Tissue Engineering is uniquely positioned to move the biomedical research goal of understanding the ability of many animals to spontaneously regenerate their body parts forward. MBL researchers have studied regeneration in marine and other animals for more than a century, building expertise that will flourish and grow in the Bell Center. An understanding of tissue and organ regeneration in lower animals holds great promise for translating to medical treatments for serious human conditions, including spinal cord injury, diabetes, organ failure, and degenerative neural diseases such as Alzheimer's.

A cornerstone of the Bell Center is a new National *Xenopus* Resource for research on the frog, which possesses unique regenerative abilities and is a major animal model used in U.S. biomedical research.

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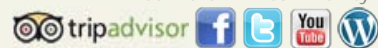
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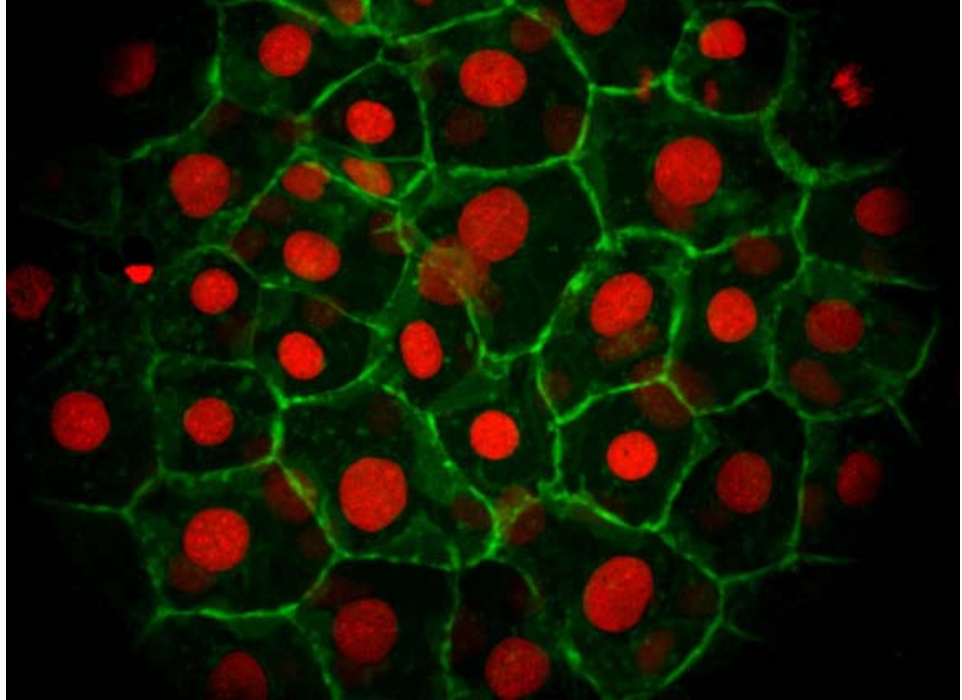
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Cellular Dynamics Program



The Cellular Dynamics Program aims to accelerate the knowledge of basic biology and translational medicine through the development and utilization of tools customized to shed light on essential life processes critical for both normal function and human disease. Established in 2008, the program merges the extraordinary imaging talents of the former Architectural Dynamics in Living Cells Program with the unique expertise of the former Molecular Physiology Program and its BioCurrents Shared Resource. Together, Cellular Dynamics Program faculty focus collaboratively on the dynamic properties of living cells using high-end imaging and electrophysiology approaches.

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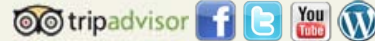
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Center for Library and Informatics



The scientists, historians, informaticians, and librarians of the Center for Library (CLI) and Informatics endeavor to revolutionize access to biological knowledge. Founded in 2010, the CLI pursues leading edge biodiversity informatics research, creates innovative techniques for contextualizing the life sciences, and develops shared repositories, tools, and standards to facilitate access to scientific data. We are actively engaged in multi-institutional research collaborations that include the MBLWHOI Library, Data Conservancy, Embryo Project, History of MBL, Global Names, Biodiversity Heritage Library and the Encyclopedia of Life.

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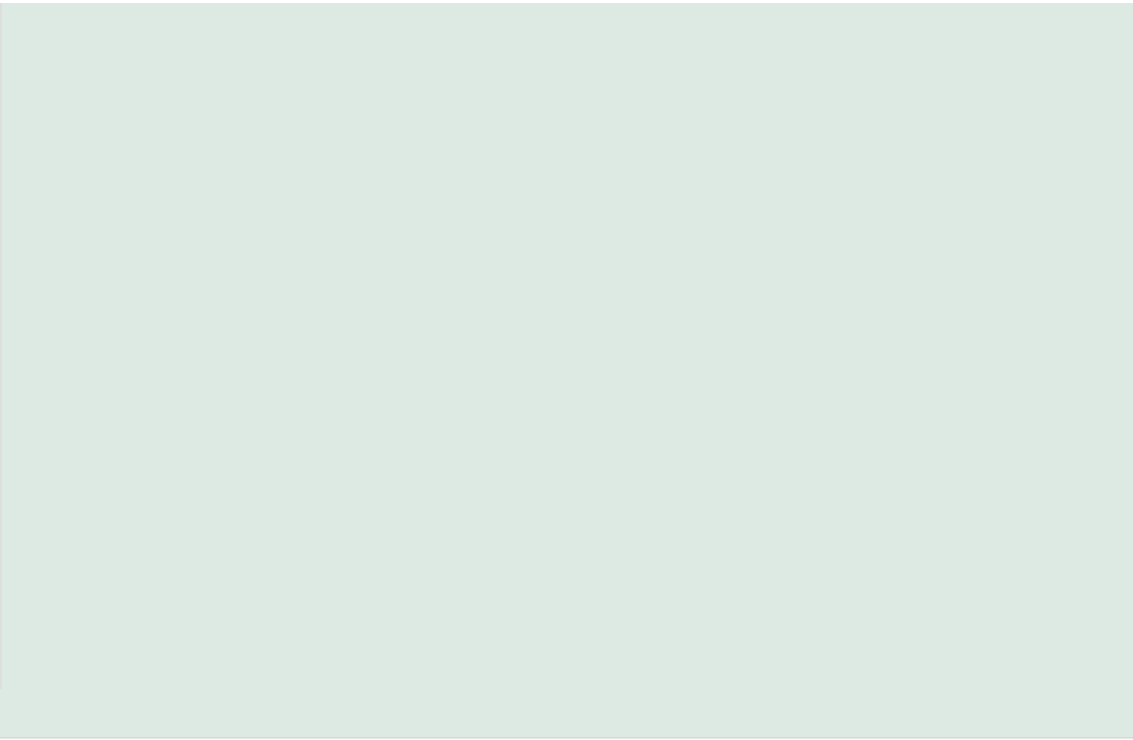
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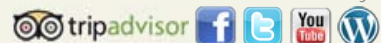
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The Ecosystems Center



The Ecosystems Center is a world leader in research on the effects of climate change on terrestrial and aquatic ecosystems. Center scientists collaborate on projects, combining expertise from a wide range of disciplines. Together, they conduct research to answer a variety of questions at polar, temperate, and tropical field sites around the world. The center's long-term ecological observations, experiments, and prediction models help to develop a sound foundation for environmental policy and management.

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Ecosystems Center Publications

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The Program in Sensory Physiology and Behavior focuses on research in vision, balance and hearing. Researchers use marine or aquatic model organisms (cephalopods, fishes, turtles) to take advantage of the unique seawater facilities and the microscopy and imaging centers at the MBL. A central goal of this program is to synergize the multiple campus activities in sensory biology and neuroscience into a cohesive group with extensive intellectual exchange, seminars, lab and student exchanges year-round, and a bioinformatics and outreach component. We strive to integrate the Woods Hole and MBL summer activities in sensory/behavioral/neuroscience research and education with our year-round Program.



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Akerboom J, Chen TW, Wardill TJ, Tian L, Marvin JS, Mutlu S, Calderon NC, Esposti F, Borghuis BG, Sun XR, Gordus A, Orger MB, Portugues R, Engert F, Macklin JJ, Filosa A, Aggarwal A, Kerr RA, Takagi R, Kracun S, Shigetomi E, Khakh BS, Baier H, Lagnado L, Wang SS, Bargmann CI, Kimmel BE, Jayaraman V, Svoboda K, Kim DS, Schreier ER, Looger LL. 2012. Optimization of a GCaMP Calcium Indicator for Neural Activity Imaging. *J Neurosci* 32: 13819-40. doi: 10.1523/JNEUROSCI.2601-12.

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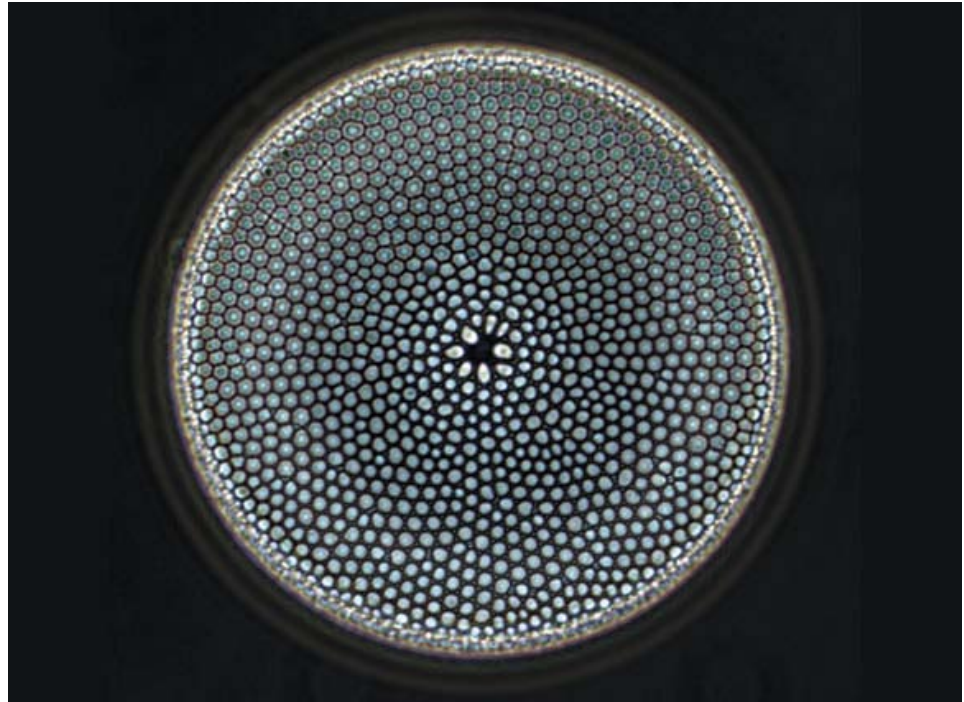
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Wilbanks, Elizabeth, University of California, Davis

Xu, Yuan, Ocean University of China, China

Yeh, Yi-Jou, University of Minnesota
Yung, Mana, Hong Kong University, Hong Kong

Zakevicius, Jane, Hunter College, City University of New York
Zemmar, Ajmal, New York University School of Medicine
Zhang, Huaiying, Dartmouth College
Zhu, Junfeng, University of Minnesota

MBL RESEARCH AWARDS

Twenty investigators received awards to conduct research at the MBL in 2012.

Ona Bloom, Assistant Professor, The Feinstein Institute for Medical Research

"Inhibitory Pathways after Spinal Cord Injury in Lamprey"

Supported by the Albert and Ellen Grass MBL Faculty Research Award (joint with Joseph Buxbaum)

Scott Brady, Professor, University of Illinois, Chicago

"Molecular Mechanisms of Fast Axonal Transport"

Supported by the Laura and Arthur Colwin Endowed Summer Research Fellowship Fund, the Gerald Fischbach Award, and the Frank R. Lillie Award.

Joseph Buxbaum, Professor, Mount Sinai School of Medicine

"Inhibitory Pathways after SCI in Lamprey"

Supported by the Albert and Ellen Grass MBL Faculty Research Award (joint with Ona Bloom)

Robyn Crook, Postdoctoral Scientist, University of Texas, Houston

"Behavioral Hypersensitivity and Primary Afferent Alterations after Spinal Cord Injury in the Lamprey"

Supported by the Baxter Postdoctoral Fellowship Fund, and the Laura and Arthur Colwin Endowed Summer Research Fellowship Fund

Gennaro D'Urso, Professor, University of Miami

"Chemogenomic Profiling in Fission Yeast"

Supported by the Laura and Arthur Colwin Endowed Summer Research Fellowship Fund

Christine Field, Associate Scientist & Lecturer, Harvard Medical School

"Toward a Cell-Free Reconstitution of Cytokinesis"

Supported by the Laura and Arthur Colwin Endowed Summer Research Fellowship Fund (in collaboration with Amy Gladfelter), and the Ann E. Kammer Memorial Fellowship Fund

Paul Forlano, Assistant Professor, City University of New York

"Neurochemical and Synaptic Connectivity of the Auditory Efferent System in a Vocal Fish"

Supported by the Laura and Arthur Colwin Endowed Summer Research Fellowship Fund, Erik B. Fries Endowed Fellowship Fund, and the H. Keffler Hartline and Edward MacNichol, Jr. Fellowship Fund

Catherine Galbraith, Senior Scientist, National Institutes of Health

"Investigating How AChR Dynamics Lead to Neuromuscular Junction Assembly Using Superresolution Imaging"
The Laura and Arthur Colwin Endowed Summer Research Fellowship Fund,
the Albert and Ellen Grass MBL Faculty Research Award (joint with James Galbraith and Thomas Misgeld)

James Galbraith, Scientist, National Institutes of Health

"Investigating How AChR Dynamics Lead to Neuromuscular Junction Assembly Using Superresolution Imaging"
The Laura and Arthur Colwin Endowed Summer Research Fellowship Fund, and the
Albert and Ellen Grass MBL Faculty Research Award (joint with Catherine Galbraith and Thomas Misgeld)

Andrew Gillis, Postdoctoral Scientist, Dalhousie University

"Development and Patterning of Elasmobranch Branchial Appendages"
Supported by the Robert Day Allen Fellowship Fund, the Frederick B. and Betsy G. Bang Fellowship, and the Laura
and Arthur Colwin Endowed Summer Research Fellowship Fund

Amy Gladfelter, Assistant Professor, Dartmouth College

"Toward a Cell-Free Reconstitution of Cytokinesis"
Supported by the Laura and Arthur Colwin Endowed Summer Research Fellowship Fund (in collaboration with
Christine Field), the Lucy B. Lemann Fellowship Fund, and the Evelyn and Melvin Spiegel Fellowship Award

Gohta Goshima, Professor, Nagoya University

"Non-centrosomal Microtubule Organization"
Supported by James A. and Faith Miller Memorial Fund

Jeffery Gross, Associate Professor, University of Texas, Austin

"Molecular Analysis of Eye Development in Squid"
Supported by the Laura and Arthur Colwin Endowed Summer Research Fellowship Fund, H. Keffler Hartline and
Edward MacNichol, Jr. Fellowship Fund, and the Plum Foundation, John E. Dowling Fellowship

Susan Hill, Assistant Professor, University of Chicago

"Do Stem Cells Play a Role in Polychaete Regeneration?"
Supported by the John M. Arnold Award"

Kristina Mead Vetter, Associate Professor, Denison University

"The Energetic Costs and Functions of Mantis Shrimp Burrows and Currents"
Supported by the Laura and Arthur Colwin Endowed Summer Research Fellowship Fund, and the Lucy B. Lemann
Fellowship Fund

Mark Messerli, Assistant Scientist, Marine Biological Laboratory

"Cellular Organization Imposed By DC Electric Fields"
Supported by the Eugene and Millicent Bell Award

Thomas Misgeld, Professor, Technische Universität München, Germany

"Investigating How AChR Dynamics Lead to Neuromuscular Junction Assembly Using Superresolution Imaging"
Supported by the Laura and Arthur Colwin Endowed Summer Research Fellowship Fund, and the Albert and Ellen
Grass MBL Faculty Research Award (joint with Catherine and James Galbraith)

Timothy Mitchison, Professor, Harvard Medical School

"Microtubule-stimulated microtubule nucleation"
Supported by the Laura and Arthur Colwin Endowed Summer Research Fellowship Fund

George O'Toole, Professor, The Geisel School of Medicine at Dartmouth

"Analysis of the Polymicrobial Infections in Cystic Fibrosis and their Response to Therapy"
Supported by the Laura and Arthur Colwin Endowed Summer Research Fellowship Fund, and the Elisabet
Samuelsson Fund

Joshua Rosenthal, Associate Professor, Universidad de Puerto Rico Institute of Neurobiology

"Plasticity of RNA Editing in Squid"
Supported by the Laura and Arthur Colwin Endowed Summer Research Fellowship Fund, and the Burr and Susie
Steinbach Fellowship

Joseph Sisneros, Associate Professor, University of Washington

"Neural Mechanisms of Directional Encoding for Sound Localization by the Fish Auditory System"
Supported by the M.G.F. Fuortes Memorial Fellowship, Albert and Ellen Grass MBL Faculty Research Award, and the
E.E. Just Endowed Research Fellowship Fund

Shana Wallace, Undergraduate, Bates College

"The Auditory System of the Plainfin Midshipman, *Porichthys notatus*" assisting in the labs of Dr. Joseph Sisneros
and Dr. Paul Forlano.
Supported by the William D. Cohen Endowed Fund for Undergraduate Education, the Laura and Arthur Colwin
Endowed Summer Research Fellowship Fund and the MBL Associates Research Award

GRASS FELLOWS

Eight young scientists were awarded fellowships by the Grass Foundation to conduct research in neurobiology at the
MBL during the summer of 2012. The program was directed by Alberto Pereda, MD, Ph.D., Albert Einstein College of
Medicine of Yeshiva University and M. Jade Zee of Northeastern University was the Associate Director.

Joan David, M.S.

University of Ilorin
"Distribution and Morphology of Catecholaminergic and Serotonergic Neurons in the Brain of the African Pangolin,



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2012 Scholarships

Scholarship Awards

In 2012, the MBL awarded scholarships to 252 highly qualified students enabling them to participate in our discovery courses.

The Bruce and Betty Alberts Endowed Scholarship in Physiology

Srikant, Sriram, Harvard University

American Society for Cell Biology

Clark, Matthew S., University of Oregon

Garner, Aleena R., University of California, San Diego

Gutierrez, Natasha C., Rutgers University

Hartsock, Andrea E., University of Texas, Austin

Munoz, William A., The University of Texas MD Anderson Cancer Center

Perez-Sanchez, Lizaida, University of Puerto Rico

Pieretti, Joyce, University of Chicago

Saenz, James P., MPI for Molecular Cell Biology and Genetics

Center for Modular Biology Fellows

Avsaroglu, Baris, Brandeis University

Chircus, Lauren M., Stanford University

Gutierrez, Natasha C., Rutgers University

Preciado Lopez, Magdalena, FOM Institute AMOLF

Saenz, James P., MPI for Molecular Cell Biology and Genetics

Sheung, Janet Y., University of Illinois at Urbana-Champaign

Biology Club of the College of the City of New York

Lafon, Belen, City College of the City University of New York

John & Elisabeth Buck Endowed Scholarship

Gerardin, Ylaine L., Harvard University

Jurgensen, Sofia, Federal University of Rio de Janeiro

Klein, Matthew E., Albert Einstein College of Medicine

Schubotz, Florence, Massachusetts Institute of Technology

C. Lalor Burdick Scholarship

Piekarski, David J., University of California Berkeley

Max M. Burger Endowed Scholarship

Arzate, Rodrigo M., Universidad Nacional Autonoma de Mexico (UNAM)

Hockman, Dorit, University of Cambridge

Yang, Qiong, Stanford University

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Burda, Paul C., University of Bern

Guizetti, Julien, Institut Pasteur

Imhof, Simon, University of Bern

Kortagere, Sandhya, Drexel University College of Medicine

Mueller, Christina V., University of Geneva

Pham, James S., University of Melbourne

Pyrih, Jan, Charles University

Silmon de Monerri, Natalie, Albert Einstein College of Medicine

Yap, Shu Lin Sally, Nanyang Technological University

Burroughs Wellcome Fund-Biology of Parasitism Course

Andenmatten, Nicole, University of Glasgow

Burda, Paul C., University of Bern

Domingo Sananes, Maria Rosa, University of Oxford

Gretes, Michael C., Oregon State University

Guizetti, Julien, Institut Pasteur

Kortagere, Sandhya, Drexel University College of Medicine

Mueller, Christina V., University of Geneva

Silmon de Monerri, Natalie, Albert Einstein College of Medicine

Burroughs Wellcome Fund-Molecular Mycology Course

Bertuzzi, Margherita, Imperial College London

Gratacap, Remi M., University of Maine

Henderson, Allen, University of California, San Francisco

Hewitt, Victoria L., Monash University

Krishnan, Karthik M., University of Cincinnati

Luallen, Robert J., University of California, San Diego

Misener, Amanda L., SUNY University at Buffalo

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McKey, Jennifer C., Universite Montpellier 1 / INSERM
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Fassihizakeri, Arash, SISSA
Fukunaga, Izumi, MPI for Medical Research
Huo, Bingxing, Pennsylvania State University
Kanemoto, Yuya, University College London
Kropf, Pascal Saeed, MNI, McGill University
Li, Yin, University of Pennsylvania
Mathuru, Ajay S., Neuroscience Research Partnership
Nauvel, Tanya J., Weill Cornell Medical College
Payne, Lisa, Brandeis University
Puvvada, Krishna C., University of Maryland, College Park
Schmidt, Loren J., Case Western Reserve University
Smith, Jackson E.T., McGill University
Strong, Melissa K., University of Washington
Wei, Helen S., University of Rochester
Wernle, Tanja, Kavli Institute for Systems Neuroscience
Wilson, Alyssa M., Harvard University
Wilson, Charles R.E., Stem Cell & Brain Research Institute

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Nordenfelt, Pontus, Harvard Medical School
Preciado Lopez, Magdalena, FOM Institute AMOLF
Prevo, Bram, VU University Amsterdam
Seldin, Lindsey N., Duke University
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Conover, Gloria M., Texas A&M University
Garner, Aleena R., University of California, San Diego
Gutierrez, Natasha C., Rutgers University
Hartsock, Andrea E., University of Texas, Austin
Munoz, William A., The University of Texas MD Anderson Cancer Center
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Mucha-Le Ny, Bettina E., Childrens' Hospital of Philadelphia

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Petersen, Sarah C., Washington University in St. Louis

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In 2012 the Grass Foundation initiated a new program, the Grass Imaging Awards. The goal of the Grass Imaging Awards is to make the remarkable imaging resources and rich intellectual environment at the MBL available to the broader scientific community. In its inaugural year 3 awards were given.

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"Detection and Quantification of Morphogen and Morphostats 3D Gradient in Brain Tumor by Use of 3D Fluorescence Multiplexed Imaging"

Gal Haspel, Ph.D.

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Whitman Center 2012
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Whitman Center Publications

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Truebano Garcia, Manuela, Plymouth University

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McKey, Jennifer C., Universite Montpellier 1 / INSERM

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Petersen, Sarah C., Washington University in St. Louis

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Biology of Parasitism

June 15 – August 4, 2012

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Striepen, Boris, University of Georgia

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Sinnis, Photini, The Johns Hopkins University
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Tait Wojno, Elia, University of Pennsylvania

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Pique, Daniel, University of Georgia

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Burda, Paul, University of Bern
Dangoudoubiyam, Sriveny, University of Kentucky
Domingo Sananes, Maria Rosa, University of Oxford
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Gretes, Michael, Oregon State University
Guizetti, Julien, Institut Pasteur
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Mueller, Christina, University of Geneva
Pham, James, University of Melbourne
Pyrih, Jan, Charles University
Silmon de Monerri, Natalie, Albert Einstein College of Medicine
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Embryology: Concepts & Techniques in Modern Developmental Biology

Embryology

June 2 – July 15, 2012

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Bronner, Marianne, California Institute of Technology
Chow, Ida, Society for Developmental Biology
Collazo, Andres, House Research Institute
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Henry, Jonathan, University of Illinois
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McClay, David, Duke University
Niswander, Lee, University of Colorado Denver
Shapiro, Michael, University of Utah
Small, Stephen, New York University
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Mitchell, Maggie, University of Texas at Austin
Rich, Constance, University of Cambridge
Schindler, Adam, Duke University
Wang, Lingyu, University of Miami
Wills, Andrea, Stanford University

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Di Bella, Daniela, Fundacion Instituto Leloir
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Liu, Chang, Shanghai Institute of Biochemistry and Cell Biology
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McKey, Jennifer, Universite Montpellier
Munoz, William, The University of Texas, M.D. Anderson Cancer Center
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Frontiers in Reproduction

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Beymer, Matthew, Stony Brook University
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Su, Renwei, Michigan State University
Vilarino, Marcela, Fundacion IRAUy
Vrooman, Lisa, Washington State University



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Microbial Diversity

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Zinder, Stephen, Cornell University

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Edwards, Elizabeth, University of Toronto
Kelly, Libusha, Massachusetts Institute of Technology
Overmann, Jeorg, DSMZ

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Hoehler, Tori, NASA
Huber, Julie, Marine Biological Laboratory
Hutchins, David, University of Southern California
Kolter, Roberto, Harvard University
Kuenen, Johannes, Delft University of Technology
Leadbetter, Jared, California Institute of Technology
Ley, Ruth, Cornell University
McFall-Ngai, Margaret, University of Wisconsin-Madison
Metcalf, William, University of Illinois
Newman, Dianne, Massachusetts Institute of Technology
Orphan, Victoria, California Institute of Technology
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Pace, Norman, University of Colorado
Polz, Martin, Massachusetts Institute of Technology
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Schink, Bernhard, Universitaet Konstanz
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Salman, Verena, Max Planck Institute for Marine Microbiology
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Brown Kav, Aya, Tel Aviv University

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Gravuer, Kelly, University of California, Davis
Greenspan, Alex, University of California, Davis
Hausladen, Debra, Stanford University
Huse, Holly, University of Texas at Austin
Kraft, Beate, Max Planck Institute for Marine Microbiology
Larsen, Steffen, Aarhus University
Schubotz, Florence, Massachusetts Institute of Technology
Smith, Heidi, Montana State University
Suter, Elizabeth, Stony Brook University
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Neurobiology

Neurobiology

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Galbraith, Catherine, National Institutes of Health
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Hardwick, Marie, Johns Hopkins University
Hoppa, Michael, Weill Cornell Medical College
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Kim, Charlie, University of California, San Francisco
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Misgeld, Thomas, Technical University Munich
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Peterka, Darcy, Columbia University/HHMI
Pratt, Kara, University of Wyoming
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Littleton, J. Troy, Massachusetts Institute of Technology
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Tsukahara, Tatsuya, University of Tokyo
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Neural Systems & Behavior

Neural Systems & Behavior

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Knierim, James, The Johns Hopkins University

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Fenton, Andre, New York University

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Rankin, Catharine, University of British Columbia

Ritt, Jason, Boston University

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Stein, Wolfgang, Illinois State University

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Daur, Nelly, University of Florida

Day, Nancy, University of Minnesota, Minneapolis

DeBlander, Leah, University of Oregon

Grewe, Jan, Ludwigs-Maximilians-Universität München

Metzen, Michael, McGill University

Montgomery, Jacob, University of Minnesota

Roth, Eatai, The Johns Hopkins University

Schoppik, David, Harvard University
Singh, Komudi, Brown University
Weir, Peter, California Institute of Technology
Wiggin, Timothy, University of Minnesota
Yanovich, Yelizaveta, University of Oregon

COURSE ASSISTANTS

Bondy, Brian, Georgia State University
Jernigan, Christopher, Smithsonian Tropical Research Institute
Liljestrand, Emily, Rice University
Miller, Olivia, Marine Biological Laboratory
Tahir, Uzma, Georgia State University

STUDENTS

Antopolskiy, Sergey, International School For Advanced Studies
Baldwin, Zachary, American Museum of Natural History
Bruno, Angela, Rosalind Franklin University of Medicine and Science
Chen, Christopher, Albert Einstein College of Medicine
Dennis, Emily, The Rockefeller University
Genco, Maria, Brandeis University
Gu, Xiao Wei Wendy, University of Cambridge
Katzen, Abraham, University of Oregon
Lee, John, Trinity College Dublin
Macias, Silvio, Havana University
Magani, Fiorella, Universidad de Buenos Aires
McCulloch, Kyle, University of California, Irvine
Muller, Tonya, University of Oxford
Perkins, Matthew, Mount Sinai School of Medicine
Rodrigues, Ludmila, University of Sao Paulo
Senatore, Adriano, University of Waterloo
The, Lydia, University of California, Berkeley
van Griethuijsen, Linnea, Tufts University
Vera, Jorge, University of Chile
Wallace, Michael, University of North Carolina, Chapel Hill



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Physiology

June 9 – July 29, 2012

COURSE DIRECTORS

Mullins, Dyche, University of California, San Francisco School of Medicine
Waterman, Clare, National Institutes of Health/NHLBI

FACULTY

Davidson, Michael, Florida State University
Feinberg-Zadek, Paula, GE Healthcare
Fischer, Robert, National Heart Lung and Blood Institute
Fletcher, Daniel, University of California, Berkeley
Gardel, Margaret, University of Chicago
Gardner, Melissa, University of Minnesota
Howard, Jonathon, Max Planck Institute
Huang, Kerwyn, Stanford University
Jaqaman, Khuloud, Harvard Medical School
Kreipe, Tony, GE Healthcare
Lippincott-Schwartz, Jennifer, The Eunice Kennedy Shriver National Institute of Child Health and Human Development
Marshall, Wallace, University of California, San Francisco
Mayor, Satyajit, National Centre for Biological Sciences
Murray, Andrew, Harvard University
Nelson, James, Stanford University
Odde, David, University of Minnesota
Phillips, Rob, California Institute of Technology
Roll-Mecak, Antonina, National Institutes of Health
Schmidt, Christoph, Georg-August-Universität Goettingen
Shin, William, National Institutes of Health
Thorn, Kurt, University of California, San Francisco

LECTURERS

Bettencourt-Dias, Monica, Instituto Gulbenkian de Ciencia
Chadwick, Richard, National Institutes of Health
Cohen-Fix, Orna, National Institutes of Health
Frankel, Joseph, University of Iowa
Fulton, Chandler, Brandeis University
Goldman, Robert, Northwestern University
Gregor, Thomas, Princeton University
Harrison, Steve, Harvard Medical School
Hurley, James, National Institutes of Health.NIDDK,
Ivaska, Johanna, University of Turku
Kamen, Rebecca, Northern Virginia Community College
Kirchhausen, Tom, Harvard Medical School
Kondev, Jane, Brandeis University
Mahadevan, L, Harvard University
Paluch, Ewa, MPI-CBG
Rao, Madan, National Centre for Biological Sciences
Silver, Pamela, Harvard Medical School
Surrey, Thomas, London Research Institute
Turkewitz, Aaron, The University of Chicago

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Benanti, Erin, University of California, Berkeley
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Bieling, Peter, University of California, San Francisco
Brewster, Robert, California Institute of Technology
Case, Lindsay, National Heart Lung and Blood Institute
Castle, Brian, University of Minnesota

Cohen, Daniel, University of California Berkeley/University of California San Francisco Joint Graduate Group
Cohen, Sarah, National Institutes of Health
Cranfill, Paula, Florida State University
Das, Moumita, Syracuse University
Fritz-Laylin, Lillian, University of California, San Francisco
Garcia, Hernan, Princeton University
Garnham, Christopher, National Institutes of Health
Geyer, Veikko, Max Planck Institute of Molecular Cell Biology and Genetics
Ghosh, Subhasri, National Centre for Biological Sciences
Good, Matthew, University of California, Berkeley
Goodman, Benjamin, National Institutes of Health/NINDS
Hansen, Scott, University of California, San Francisco
Hilfinger, Andreas, Harvard Medical School
Ishikawa, Hiro, University of California, San Francisco
Klank, Rebecca, University of Minnesota
Koester, Darius, National Centre for Biological Sciences
Laan, Liedewij, Harvard University
Lee, Timothy, Stanford University
Little, Shawn, Princeton University
Lowndes, Molly, Stanford University
Mitra, Kasturi, National Heart Lung Blood Institute
Myers, Frank, University of California, Berkeley
Ricca, Benjamin, University of California, Berkeley
Robinson-Mosher, Avi, Wyss Institute at Harvard University
Salmon, Wendy, Whitehead Institute
Sartori, Pablo, Max Planck Institute for the Physics of Complex Systems
Satpute-Krishnan, Prasanna, National Institute of Health
Schmid, Eva, University of California, Berkeley
Sengupta, Prabuddha, National Institute of Health
Slabodnick, Mark, University of California, San Francisco
Tropini, Carolina, Stanford University
Tubman, Emily, University of Minnesota
Vahey, Michael, University of California, Berkeley
van Engelenburg, Schuyler, National Institute of Health
Zanic, Marija, Max Planck Institute

COURSE ASSISTANTS

Lee, Terri, California Institute of Technology
Wendt, Shannon, Virginia Tech University

STUDENTS

Abu Shah, Enas, Technion University
Avsaroglu, Baris, Brandeis University
Ayloo, Swathi, University of Pennsylvania
Bodor, Dani, Instituto Gulbenkian de Ciencia
Caldas, Gina, Colorado State University
Chircus, Lauren, Stanford University
Collins, Nichole, Harvard University
Gao, Liang, Howard Hughes Medical Institute
Griffiths, Annabel, Cambridge University
Gross, Peter, MPI for Molecular Cell Biology and Genetics
Gunzenhauser, Julia, Ecole Polytechnique Federale de Lausanne
Gutierrez, Natasha, Rutgers University
Hasegawa, Keisuke, National Institutes of Health/NCI
Hernandez-Lopez, Rogelio, Harvard University
Higgins, Christopher, University of North Carolina at Chapel Hill
Kourkoutis, Lena, Cornell University
Lane, Andrew, University of Minnesota
Nordenfelt, Pontus, Harvard Medical School
Preciado Lopez, Magdalena, FOM Institute AMOLF
Prevo, Bram, VU University Amsterdam
Ritter, Alex, National Institutes of Health/University of Cambridge
Saenz, James, Max Planck Institute for Molecular Cell Biology and Genetics
Seldin, Lindsey, Duke University
Sheung, Janet, University of Illinois at Urbana-Champaign
Srikant, Sriram, Harvard University
Swaminathan, Vinay Shankar, National Institutes of Health/NHLBI
Wu, Congying, University of North Carolina at Chapel Hill

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Zebrafish Development

Analytical and Quantitative Light Microscopy

Analytical & Quantitative Light Microscopy

May 9 – May 18, 2012

COURSE DIRECTORS

Sluder, Greenfield, University of Massachusetts Medical School
Swedlow, Jason, University of Dundee
Wolf, David, Radiation Monitoring Devices

FACULTY

Davidson, Michael, Florida State University
Dempsey, Graham, Harvard University
Dunsby, Chris, Imperial College London
Eliceiri, Kevin, University of Wisconsin
Hodgson, Louis, Albert Einstein College of Medicine
Jaqaman, Khuloud, Harvard Medical School
Murray, John, University of Pennsylvania
Salmon, Edward, University of North Carolina at Chapel Hill
Schindelin, Johannes, University of Wisconsin
Shah, Jagesh, Harvard Medical School
Taraska, Justin, National Institutes of Health/NHLBI

LECTURERS

Gurjar, Rajan, Radiation Monitoring Devices
Khodjakov, Alexey, Wadsworth Center
Rottenfusser, Rudolf, Carl Zeiss MicroImaging, LLC, (Ret.)
Tam, Jenny, Massachusetts General Hospital
Williams, Elizabeth, Rockefeller University

TEACHING ASSISTANTS

Besson, Sebastien, Wellcome Trust Center for Gene Regulation & Expression
Douthwright, Stephen, University of Massachusetts Medical School
Georges, Joseph, BNI-ASU Center for Preclinical Imaging
Porter, Michael, University of Dundee
Rogers, Cassandra, Children's Hospital Boston
Spiering, Desiree, Albert Einstein College of Medicine

COURSE COORDINATOR

Salmon, Wendy, Whitehead Institute

STUDENTS

Antoine-Bertrand, Judith, McGill University
Arena, Ellen, Institut Pasteur
Coddington, Emma, Willamette University
Creed, Sarah, University of North Carolina at Chapel Hill
Dodgson, James, University of Cambridge
Doger, Remziye, Pontificia Universidad Catolica de Chile
Duncan, Jason, Willamette University
Fitch, Jennifer, Beth Israel Deaconess Medical Center
Govenar, Breea, Rhode Island College
Hammond, Luke, University of Queensland
Hazel, James, University of Wyoming
Hildebrandt, Lasse, iNANO, Aarhus University
Ioannou, Maria, McGill University
Jowhar, Dawit, Vanderbilt University
Keeney, Jonathon, University of Colorado Denver
Lehmann Mantaras, Guillermo, Weill Cornell Medical College
Luxtun, G.W. Gant, University of Minnesota
Mazzochette, Eileen, Stanford University
Nelson, Christian, Brown University
Novak, Stefanie, University of Arizona
Perez Bay, Andres, Weill Medical College of Cornell University

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Raiss, Christian, University of Twente
 Ramseyer, Vanesa, Henry Ford Health Systems
 Roberts, Eric, Rhode Island College
 Saunders, Aleister, Drexel University
 Schleicher, Katharina, University of Dundee
 Schreiner, Sarah, Yale University
 Sharifian, Hoda, Institute of Biochemistry
 Stanton, Morgan, Worcester Polytechnic Institute
 Sumerel, Jan, Rambus, Inc.
 Takacs, Constantin, The Rockefeller University
 Wawersik, Matthew, College of William & Mary
 Williams, Larissa, Woods Hole Oceanographic Institution



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BioMedical Informatics**BioMedical Informatics (Spring)
May 27 – June 2, 2012****COURSE DIRECTOR**

Mitchell, Joyce, University of Utah

FACULTY

Abbott, Patti, The Johns Hopkins University
 Ackerman, Michael, National Library of Medicine
 Ash, Joan, Oregon Health & Science University
 Del Fiol, Guilherme, University of Utah
 Fiszman, Marcelo, National Library of Medicine
 Friedman, Charles, Department of Health & Human
 Services
 Hurdle, John, University of Utah
 Kawamoto, Kensaku, University of Utah
 Lenert, Leslie, University of Utah
 Lindberg, Donald, National Library of Medicine
 Phillips, Steven, National Library of Medicine
 Vaughn, Michael, The Johns Hopkins University

STUDENTS

Aiello, Marina, Kaiser Permanente
 Akinjeji, Adewale, Institute of Human Virlogy Nigeria
 Allard, Rhonda, Weill Cornell Medical College Library
 Batson, Nicholas, University of Louisville
 Blanch, Tanya, Center for Comprehensive Health Practice
 Cheromcha, Kathleen, Windham Hospital
 Crenshaw, Clayton, University of North Texas Health
 Science Center
 Dietrich, Linda, Memorial Health System
 Field, Dawn, Texas Tech University Health Science
 Center
 Garcia Millian, Rolando, University of Florida
 Gaynor, Mark, Saint Louis University
 Goldstein, Andrea, University of Maryland, Baltimore
 Goodell, Jon, University of Arkansas for Medical Sciences
 Library
 Griffin-Sobel, Joyce, Hunter College
 Hackman, Dawn, University of North Dakota
 Harvey, Barbara, University of South Dakota
 Hopkins, Mark, University of Oklahoma Health Sciences
 Center
 Jain, Sanjay, Department of Veterans Affairs Medical
 Center
 Johnson, Michael, Shawnee State University
 Kenny, Timothy, Kansas University
 Kochi, Julia, University of California, San Francisco
 Kouame, Gail, University of Washington
 Lawson, Emily, Children's Healthcare of Atlanta
 Leslie, Sharon, Georgia State University
 Nicholson, Joseph, New York University Langone Medical
 Center
 Paudel, Keshab, United Health Services
 Quillen, Karen, Boston University Medical Center
 Schulz, Travis, Medcenter One Health Systems
 Setoguchi-Iwata, Soko, Duke Clinical Research Institute
 Shiller, Mitchell, McGill University/Montreal Children's
 Hospital

BioMedical Informatics (Fall)**September 16 – September 22, 2012****COURSE DIRECTOR**

Cimino, James, National Institutes of Health

FACULTY

Abbott, Patti, University of Michigan
 Fiszman, Marcelo, National Library of Medicine
 Friedman, Charles, University of Michigan
 Hakkinen, Pertti, National Institutes of Health
 Harris, Paul, Vanderbilt University
 Johnson, Kevin, Vanderbilt University
 Kingsland, Lawrence, National Library of Medicine (Ret.)
 Lindberg, Donald, National Library of Medicine
 Mendonca, Eneida, University of Wisconsin – Madison
 Miller, Bonnie, Vanderbilt University
 Phillips, Steven, National Library of Medicine
 Starren, Justin, Northwestern University
 Tachinardi, Umberto, University of Wisconsin – Madison
 Vaughn, Michael, The Johns Hopkins University

LECTURERS

Corn, Milton, National Institutes of Health
 Mitchell, Joyce, University of Utah

STUDENTS

Barone, Eleanor, Avanti Aesthetic Surgery, LLC
 Cagna, Robert, West Virginia University
 Childs, Christopher, University of Iowa
 Connelly, Timothy, Memorial Health University Medical
 Center
 de Castro, Romulo, Charles Drew University of Medicine
 and Science
 DeSanto, Kristen, Children's Hospital Colorado
 Edwards, Mary, University of Florida HSC Library
 Federer, Lisa, UCLA Biomedical Library
 Glenn, Emily, Seattle Biomedical Research Institute
 Gogniat, Patricia, Logical Images
 Goodwin, Nancy, Middlesex Hospital
 Gordon, Carol, Southern Illinois University School of
 Medicine
 Govani, Shail, University of Michigan
 Harris, Ryan, University of Maryland
 Harzewski, Caroline, Charlotte AHEC Library
 Hindman, Margaret, University of South Carolina Upstate
 Ketema, Amsale, Memorial Sloan-Kettering Cancer Center
 Khan, Sardar, Northport VA Medical Center
 Koffel, BettyLou, Northwest Permanente, PC
 Kovach, Fran, Southern Illinois University School of
 Medicine
 Maldonado, Irvin, San Juan Bautista School of Medicine
 Miglus, Jennifer, University of Connecticut Health Center
 Miles, Alisha, Columbus Regional Healthcare System
 Moberly, Heather, Oklahoma State University
 Myers, Megan, Veterans Health Administration
 Pallinger, Joyce, Vanguard Health Chicago/MacNeal
 Hospital
 Perez, Alvaro, San Juan Bautista School of Medicine
 Pyle, Kathryn, Oregon Health & Science University

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Swift, Mary, University of Rochester
Wright, Drew, Weill Cornell Medical College

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Frontiers in Stem Cells and Regeneration
September 30 – October 6, 2012

COURSE DIRECTORS

Muneoka, Ken, Tulane University
Schatten, Gerald, Pittsburgh Development Center

FACULTY

Bely, Alexa, University of Maryland College Park
Bloom, Ona, Feinstein Institute for Medical Research
Chuong, Cheng Ming, University of Southern California
Cowan, Chad, Harvard University
Easley, Charles, Emory University School of Medicine
Garcia-Arraras, Jose, University of Puerto Rico
Gardiner, David, University of California, Irvine
Gassei, Kathrin, University of Pittsburgh
Hughes, Mark, Genesis Genetics Institute
Jeffery, William, Marine Biological Laboratory
Maden, Malcolm, University of Florida
McFarland, David, Magee Women's Research Institute
Meshorer, Eran, The Hebrew University of Jerusalem
Minger, Stephen, GE Healthcare
Morgan, Jennifer, Marine Biological Laboratory
Orwig, Kyle, University of Pittsburgh
Park, In-Hyun, Yale University
Pruszk, Jan, University of Freiburg
Ravindranath, Neelakanta, National Institutes of Health/NICHD
Shay, Jerry, UT Southwestern Medical Center
Simerly, Calvin, University of Pittsburgh

LECTURERS

Latham, Stephen, Yale University
Scadden, David, Harvard University

TEACHING ASSISTANTS

Ahfeldt, Tim, Harvard University
McCusker, Catherine, University of California, Irvine
Merritt, Megan, Emory University School of Medicine
Palermo Lauff, Angela, Pittsburgh Development Center
Sukhwani, Meena, Magee Women's Research Institute
Tanaka, Yoshiaki, Yale School of Medicine
Zattara, Eduardo, University of Maryland, College Park
Hartnett, Carrie, Magee Women's Research Institute

COURSE COORDINATORS

Carlisle, Diane, University of Pittsburgh
Mebane, Dorianne, Marine Biological Laboratory

STUDENTS

Ali, Amal, King Abdullah University of Science and Technology
Alkhalay, Zikra, King Faisal Specialist Hospital and Research Center
Almanaa, Taghreed, Bowling Green State University
Aneke, John, Federal Medical Center
Bello Melo, Samir, University of Puerto Rico
Chan, Michelle, Massachusetts Institute of Technology
Francis, Michael, LifeNet Health Institute of Regenerative Medicine
Hindley, Christopher, University of Freiburg
Jensen, Jesper, Hagedorn Research Institute, Novo Nordisk
Ketkar, Alhad, National Institute for Research in Reproductive Health
Matsuoka, Akihiro, Northwestern University
Puri, Sanjeev, Panjab University

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Ridgway, Iain, Bangor University
Tahtamouni, Lubna, The Hashemite University
Ye, Wenduo, Tulane University
Yip, Henry, The University of Hong Kong

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Zebrafish Development

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Fundamental Issues in Vision Research

August 5 – August 18, 2012

COURSE DIRECTORS

Stepp, Mary Ann, George Washington University Medical Center
Wensel, Theodore, Baylor College of Medicine

FACULTY

Agarwal, Neeraj, National Institutes of Health
Beebe, David, Washington University
Colley, Nansi, University of Wisconsin
Dean, Michael, National Cancer Institute
Funderburgh, James, University of Pittsburgh
Gehring, Walter, University of Basel
Gordon, Marion, Ernest Mario School of Pharmacy, Rutgers
Gross, Alecia, University of Alabama at Birmingham
Lieberman, Ellen, National Institutes of Health/NEI
Mechoulam, Hadas, Hadassah University Hospital
Papermaster, David, University of Connecticut Health Center
Peachey, Neal, Cleveland Clinic
Summers Rada, Jody, University of Oklahoma Health Sciences

LECTURERS

Berson, Eliot, Harvard Medical School
DAmore, Patricia, Schepens Eye Research Institute/Harvard Medical School
Dyer, Michael, St. Jude Children's Research Hospital
Hageman, Gregory, University of Utah
Hauswirth, William, University of Florida
John, Simon, Jackson Laboratory
LaVail, Jennifer, University of California, San Francisco
Ljubimov, Alexander, Cedars-Sinai Medical Center
Lukasiewicz, Peter, Washington University
Lwigale, Peter, Rice University
Moore, Tirin, Stanford University
Murray, Sarah, University of California, San Diego
Nachury, Max, Stanford University School of Medicine
Neeraj, Agarwal, National Institutes of Health
Nishina, Patsy, The Jackson Laboratory
Rosenbaum, James, Oregon Health & Science University
Sparrow, Janet, Columbia University

TEACHING ASSISTANT

Samuels, Ivy, Louis Stokes Cleveland VA Medical Center

COURSE COORDINATOR

Anastassov, Ivan, Hunter College and Graduate Center CUNY

STUDENTS

Chen, Yan, Vanderbilt University Medical Center
Coursey, Terry, Baylor College of Medicine
Ding, Di, University of Miami
Filas, Benjamen, Washington University School of Medicine
Gillespie, Stephanie, The Mount Sinai School of Medicine
He, Jie, Cambridge University
Kim, Byung-Jin, The North Texas Eye Research Institute, University of North Texas Health Science Center
Klingeborn, Johan, Duke University Medical Center
Kopinski, Piotr, University of Pennsylvania
Li, Yidong, Yale University
Mao, Mao, University of California, San Francisco
Mazade, Reece, University of Arizona
McGehee, Jennifer, Baylor College of Medicine

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McKeown, Alex, University of Alabama at Birmingham
Menon, Balaraj, Massachusetts Eye and Ear
Miyadera, Keiko, University of Pennsylvania
Moore-Dotson, Johnnie, University of Arizona
Ngo, Kathy, University of California, Los Angeles
O'Quin, Kelly, University of Maryland
Oliver, Verity, Wilmer Eye Institute, Johns Hopkins University
Patel, Amit, University of Miami
Sundermeier, Thomas, Case Western Reserve University
Walsh, Caroline, University of Michigan
Wubben, Thomas, University of Illinois at Chicago

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Gene Regulatory Networks

Gene Regulatory Networks for Development

October 9 – October 20, 2012

COURSE DIRECTORS

Davidson, Eric, California Institute of Technology

McClay, David, Duke University

Peter, Isabelle, California Institute of Technology

FACULTY

Bolouri, Hamid, Fred Hutchinson Cancer Research Center

Briscoe, James, MRC National Institute for Medical Research, London

Bronner, Marianne, California Institute of Technology

Longabaugh, William, Institute for Systems Biology

Rothenberg, Ellen, California Institute of Technology

Singh, Harinder, Genentech/University of California, San Francisco

Small, Stephen, New York University

Stormo, Gary, Washington University School of Medicine

COURSE COORDINATOR

Martik, Megan, Duke University

STUDENTS

Akhmetova, Laila, Harvard University

Andrikou, Carmen, Stazione Zoologica Anton Dohrn di Napoli

Bacanamwo, Methode, Morehouse School of Medicine

Buckley, Katherine, University of Toronto

Chen, Guangbo, Stowers Institute for Medical Research

Collombet, Samuel, IBENS

Coulombe, James, NIH/NICHD

Feuda, Roberto, National University of Ireland Maynooth

Fish, Jennifer, University of California, San Francisco

Franke, Martin, Max Planck-Institute for Molecular Genetics

Gomez, Carlos, Centro Andaluz de Biología del Desarrollo

Guimaraes, Pedro, Biology National Laboratory

Ji, Yongchang, SUNY Upstate Medical University

Jiang, Pengyao, University of Chicago

Kwan, Chun Wai, University of Chicago

Logan, Catriona, Stanford University/HHMI

Moody, Sally, George Washington University

Nozue, Kazunari, University of California, Davis

Riddiford, Nick, National University of Ireland, Galway

Sanchez-Ferras, Oraly, University of Quebec at Montreal

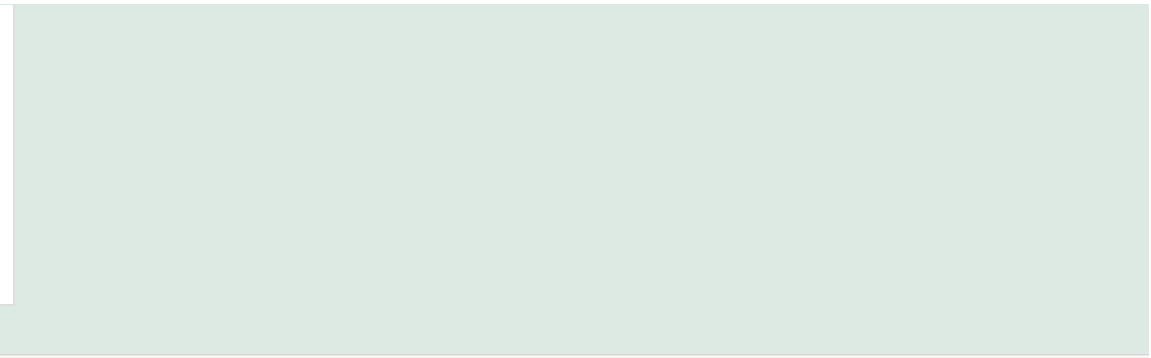
Schwendinger-Schreck, Jamie, Yale University

Shlyueva, Daria, Research Institute of Molecular Pathology

Swann, Jeremy, Max Planck Institute of Immunobiology and Epigenetics

Wilken, Matthew, University of Washington

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July 29 – August 26, 2012

COURSE DIRECTORS

Berry II, Michael, Princeton University
Fairhall, Adrienne, University of Washington

FACULTY

Abbott, Larry, Columbia University
Aksay, Emre, Weill Cornell
Azeredo da Silveira, Rava, Ecole Normale Supérieure
Baccus, Stephen, Stanford University
Bialek, William, Princeton University
Ermentrout, Bard, University of Pittsburgh
Fee, Michale, Massachusetts Institute of Technology
Fiete, Ila, University of Texas at Austin
Frank, Loren, University of California, San Francisco
Gage, Gregory, Backyard Brains
Gelperin, Alan, Princeton University
Goldman, Mark, University of California, Davis
Huguenard, John, Stanford University
Kiani, Roozbeh, Stanford University
Kopell, Nancy, Boston University
Miller, Kenneth, Columbia University
Pillow, Jonathan, University of Texas at Austin
Schneidman, Elad, Weizmann Institute of Science
Shadmehr, Reza, Johns Hopkins University
Sharpee, Tatyana, The Salk Institute for Biological Studies
Shea-Brown, Eric, University of Washington
Solla, Sara, Northwestern University
Sompolinsky, Haim, Hebrew University
Tank, David, Princeton University
Toth, Bryan, University of Washington
White, John, University of Utah
Wilson, Charles, University of Texas at San Antonio

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Bean, Bruce, Harvard Medical School
Bower, James, University of Texas Health Science Center San Antonio
de Ruyter, Rob, Indiana University Bloomington
Donchin, Opher, Ben-Gurion University of the Negev
Froemke, Robert, New York University School of Medicine
Lewis, David, University of Pittsburgh
Martin, Kevan, Institute of Neuroinformatics
Schultz, Wolfram, University of Cambridge
Whittington, Miles, Newcastle University

TEACHING ASSISTANTS

El Boustani, Sami, Massachusetts Institute of Technology
Fitzgerald, James, Stanford University
Gjorgjieva, Julijana, Harvard University
Lajoie, Guillaume, University of Washington

COURSE ASSISTANT

Neagu, Iulia, Princeton University

STUDENTS

Aljadeff, Johnatan, University of California, San Diego
Brendel, Wieland, Champalimaud Institute
Cayco Gajic, Natasha, University of Washington
Chung, SueYeon, Harvard University

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Garner, Aleena, University of California, San Diego
Hadizadeh, Shirin, University of British Columbia
Hewage, Emil, University of Cambridge
Hu, Yu, University of Washington
Kitch, Lacey, Stanford University
Lafon, Belen, City College of the City University of New York
Liu, Liu (Dave), McGill University
Mackevicius, Emily, Massachusetts Institute of Technology
Mischiati, Matteo, HHMI Janelia Farm Research Campus
Moshkovitz, Michal, The Hebrew University of Jerusalem
Naumann, Eva, Harvard University/Champaulimaud
Nikbakht Nasrabadi, Nader, International School for Advanced Studies (SISSA)
Reifenstein, Eric, Humboldt-University Berlin
Resnik, Jennifer, Weizmann Institute of Science
Rubin, Alon, Weizmann Institute of Science
Saunders, Arpiar, Harvard Medical School
Stern, Merav, Hebrew University
Voevodsky, Vladimir, Institute for Advanced Study
Wacogne, Catherine, Universite Pierre et Marie Curie
Widloski, John, University of Texas, Austin



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Molecular Biology of Aging

Molecular Biology of Aging
July 22 – August 11, 2012

COURSE DIRECTORS

Austad, Steven, University of Texas Health Science Center
Ruvkun, Gary, Massachusetts General Hospital

FACULTY

Brown-Borg, Holly, University of North Dakota
Chaudhuri, Asish, University of Texas Health Science Center San Antonio
Kaeberlein, Matt, University of Washington
Morimoto, Richard, Northwestern University
Promislow, Daniel, University of Georgia
Ridgway, Iain, Bangor University

LECTURERS

Barzilai, Nir, Albert Einstein College of Medicine
Brunet, Anne, Stanford University
Gottschling, Daniel, Fred Hutchinson Cancer Research Center
Haigis, Marcia, Harvard Medical School
Sinclair, David, Harvard Medical School
Suh, Younsin, Albert Einstein College of Medicine

TEACHING ASSISTANT

Govindan, J. Amaranath, Massachusetts General Hospital

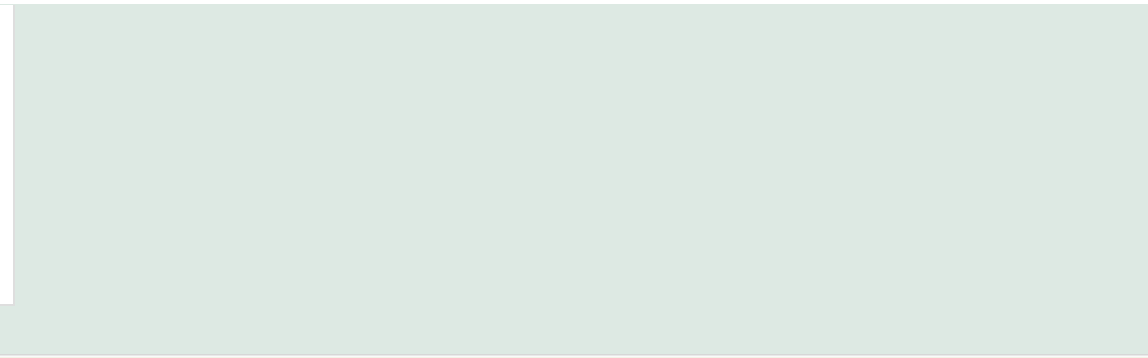
COURSE ASSISTANT

Liljestrand, Amy, Mount Holyoke College

STUDENTS

Chaudhuri, Jyotiska, University of Texas, Arlington
de Graff, Adam, Stony Brook University
Duval, Nathan, Eleanor Roosevelt Institute, University of Denver
Ghanekar, Yashoda, Inst for Stem Cell Biology/Regenerative Medicine
Hu, Chi-Kuo, Stanford University
Jiang, Lijing, Arizona State University
Khanna, Akshat, University of Southern California
Lo, Jacqueline, University of Southern California
Mercken, Evi, National Institute on Aging/NIH
Palmer, Allyson, The Mayo Clinic
Pena Silva, Ricardo, University of Iowa
Shafran, Izhak, Oregon Health & Science University
Sharif, Wallace, Morehouse College
Simmons, Alexandra, University of St Thomas
Tang, Simon, University of California, San Francisco
Tucsek, Zsuzsanna, Reynolds Oklahoma Center on Aging, OU
Xu, Xiangru, Yale University
Yim, Sun Hee, Brigham Women's Hospital
Zhang, Yue, Harvard University

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Molecular Mycology

August 1 – August 17, 2012

COURSE DIRECTORS

Alspaugh, Andrew, Duke University School of Medicine
Hogan, Deborah, Dartmouth Medical School

FACULTY

Edwards, John, Harbor UCLA Medical Center
Heitman, Joseph, Duke University Medical Center
Konopka, James, Stony Brook University (SUNY)
Mitchell, Aaron, Carnegie Mellon University
Mylonakis, Eleftherios, Massachusetts General Hospital
Nantel, Andre, National Research Council of Canada
Sheppard, Donald, McGill University
Sil, Anita, University of California, San Francisco
Stajich, Jason, University of California, Riverside
White, Ted, University of Missouri Kansas City

LECTURERS

Brown, Gordon, University of Aberdeen
Doering, Tamara, Washington University Medical School
Filler, Scott, Los Angeles Biomedical Research Institute
Gladfelter, Amy, Dartmouth Medical School
Hube, Bernhard, Hans Knoell Institute
Ibrahim, Ashraf, University of California, Los Angeles
Munro, Carol, University of Aberdeen
Wheeler, Robert, University of Maine

TEACHING ASSISTANTS

Grahl, Nora, Dartmouth Medical School
Gravelat, Fabrice, McGill University
Nichols, Connie, Duke University Medical Center
Piispanen, Amy, Dartmouth Medical School
Solis, Norma, Los Angeles Biomedical Research Institute

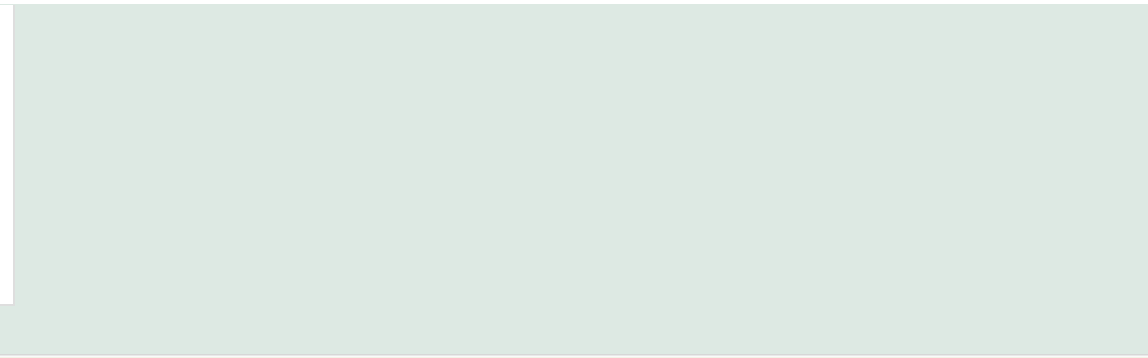
COURSE COORDINATORS

Edwards, Carol, Harbor UCLA Medical Center
Rafkin, Wendy, Harbor UCLA Medical Center

STUDENTS

Bertuzzi, Margherita, Imperial College London
Gratacap, Remi, University of Maine
Hallen-Adams, Heather, University of Nebraska-Lincoln
Henderson, Allen, University of California, San Francisco
Hewitt, Victoria, Monash University
Krishnan, Karthik, University of Cincinnati
Luallen, Robert, University of California, San Diego
Misener, Amanda, SUNY University at Buffalo
Perez-Sanchez, Lizaida, University of Puerto Rico
Potrykus, Joanna, University of Aberdeen
Roy, Babhrubahan, Jawaharlal Nehru Center For Advanced Scientific Research
Snarr, Brendan, McGill University
Sun, Nuo, Georgetown University
Sun, Sheng, Duke University Medical Center
Taff, Heather, University of Wisconsin, Madison
Uppuluri, Priya, University of Texas at San Antonio
Van Hauwenhuyse, Frederique, Laboratory of Molecular Cell Biology – KU Leuven
Zhai, Bing, Texas A&M University

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Zebrafish Development

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Neuroinformatics

August 11 – August 26, 2012

COURSE DIRECTORS

Kleinfeld, David, University of California, San Diego
Mitra, Partha, Cold Spring Harbor Laboratory

FACULTY

Barbas, Helen, Boston University
Belkin, Mikhail, Ohio State University
Bernard, Amy, Allen Institute for Brain Science
Bohland, Jason, Boston University
Eden, Uri, Boston University
Hamalainen, Matti, Massachusetts General Hospital
Iyengar, Satish, University of Pittsburgh
Lee, Jin Hyung, University of California, Los Angeles
Pesaran, Bijan, New York University
Purpura, Keith, Weill Cornell Medical College
Richmond, Barry, National Institutes of Health/DHHS/NIMH
Rosa, Marcello, Monash University
Sarma, Sridevi, Johns Hopkins University
Schiff, Nicholas, Weill Cornell Medical College
Sornborger, Andrew, University of Georgia
Victor, Jonathan, Weill Cornell Medical College

LECTURERS

Gage, Gregory, Backyard Brains
Golani, Ilan, Tel Aviv University
Grange, Pascal, Cold Spring Harbor Laboratory
Grinspan, Zachary, Weill Cornell Medical Center
Helmstaedter, Moritz, Max-Planck-Institute of Neurobiology
Hill, Daniel, Technical University of Munich
Jakimo, Noah, Cold Spring Harbor Laboratory
Luessi, Martin, Massachusetts General Hospital
Marzullo, Timothy, Backyard Brains
Reimers, Mark, Virginia Commonwealth University
Sengupta, Anirvan, Rutgers University
Wakeman, Daniel, Massachusetts General Hospital

TEACHING ASSISTANTS

Laxpati, Nealen, Emory University
Mankin, Emily, University of California, San Diego

COURSE ASSISTANT

Liljestrand, Amy, Mount Holyoke College

STUDENTS

Behroozmand, Roozbeh, University of Iowa
Brockner, David, Duke University
Cembrowski, Mark, Janelia Farm, Howard Hughes Medical Institute
Chaplin, Tristan, Monash University
Chauviere, Laetitia, New York University
Connolly, Allison, University of Minnesota
Danziger, Zachary, Duke University
Esmaili, Vahid, International School for Advanced Studies
Fassihizakeri, Arash, International School for Advanced Studies
Fukunaga, Izumi, Max Planck Institute for Medical Research
Huo, Bingxing, Pennsylvania State University
Kanemoto, Yuya, University College London
Kerr, Matthew, The Johns Hopkins University
Kropf, Pascal, Montreal Neurological Institute and Hospital, McGill University

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Li, Yin, University of Pennsylvania
 Mathuru, Ajay, Neuroscience Research Partnership
 Nauvel, Tanya, Weill Cornell Medical College
 Payne, Lisa, Brandeis University
 Puvvada, Krishna, University of Maryland, College Park
 Schmidt, Loren, Case Western Reserve University
 Smith, Jackson, McGill University
 Strong, Melissa, University of Washington
 Wei, Helen, University of Rochester
 Wernle, Tanja, Kavli Institute for Systems Neuroscience
 Wilson, Alyssa, Harvard University
 Wilson, Charles, Stem Cell & Brain Research Institute

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Optical Microscopy

September 27 – October 7, 2012

COURSE DIRECTORS

Hard, Robert, University at Buffalo
Izzard, Colin, University at Albany

FACULTY

DePasquale, Joseph, Morphogenyx Inc.
Lanni, Frederick, Carnegie Mellon University
McNally, James, National Institutes of Health
Murray, John, University of Pennsylvania
Sigurdson, Wade, University at Buffalo
Waterman, Clare, National Institutes of Health/NHLBI

LECTURERS

Day, Richard, Indiana University School of Medicine
Lippincott-Schwartz, Jennifer, National Institution of Health
Shroff, Hari, National Institutes of Health/NIBIB

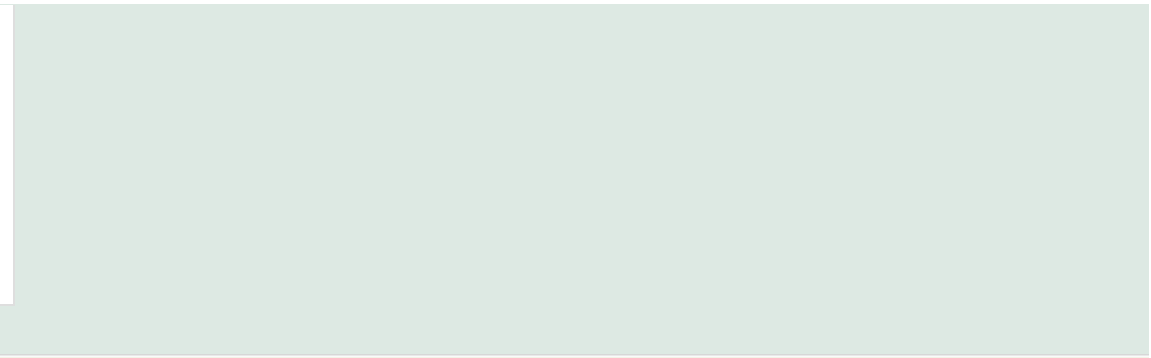
TEACHING ASSISTANTS

Case, Lindsay, National Institutes of Health /NHLBI
Hum, Julia, Indiana University
Skau, Colleen, National Institutes of Health /NHLBI

STUDENTS

Abu Baker, Salah, University of Nevada, Reno
Afonso, Kendra, Genzyme
Barry, Chris, Morgridge Institute for Research
Bianco, Piero, University at Buffalo
Bucciarelli, Bruna, USDA Agricultural Research Service
Bussard, Karen, Wake Forest University School of Medicine
Cantu, Marcos, University of California, Irvine
Cohen, Robert, Colorado State University
Conover, Gloria, Texas A&M University
Damkier, Helle, Aarhus University
Danao, Jay, Amgen San Francisco
de Souza, Lorena, National Institutes of Health
DeLong, Kevin, The Johns Hopkins University
Doan, Lisa, NYU School of Medicine
Gottlieb, Philip, University at Buffalo
Jones, Jessica, University of Texas at Austin
Knecht, Sharmon, Fred Hutchinson Cancer Research Center
Mahadevappa, Ravikiran, Aarhus University
Mandula, Ondrej, Institute for Adaptive and Neural Computation, University of Edinburgh
Moore, Michael, Delaware Biotechnology Institute
Rahbar, Elaheh, University of Texas Health Science Center at Houston
Seper, Andrea, University of Graz/Institute of Molecular Biosciences
Trcek Pulisic, Tatjana, Howard Hughes Medical Institute, Skirball Institute
Vermehren-Schmaedick, Anke, Oregon Health and Science University
Whiteus, Christina, Northwestern University/Yale University
Xu, Jun, Tufts University

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Summer Program in Neuroscience, Ethics & Survival

Summer Program in Neuroscience, Ethics & Survival
June 16 – July 14, 2012

COURSE DIRECTORS

Townsel, James, Meharry Medical College
Trujillo, Keith, California State University San Marcos

FACULTY

Berger-Sweeney, Joanne, Tufts University
Castaneda, Edward, University of Texas at El Paso
Chaichana, Kaisorn, The Johns Hopkins University School of Medicine
Etgen, Anne, Albert Einstein College of Medicine
Fox, Tom, Harvard Univ and National University of Singapore
Guerrero-Cazares, Hugo, The Johns Hopkins University
Jones, Kevin, Children's National Medical Center
King, Jean, University of Massachusetts Medical School
Martinez, Joe, University of Texas San Antonio
Moore, Tirin, Stanford University
Nishi, Rae, University of Vermont
Poe, Gina, University of Michigan
Quinones, Alfredo, The Johns Hopkins University
Stuart, Ann, University of North Carolina Chapel Hill

LECTURERS

Carneiro, Ana, Vanderbilt University
Delgado, Mauricio, Rutgers University
Edwards, Emmeline, National Center for Complementary and Alternative Medicine
Kokel, David, Massachusetts General Hospital
Kravitz, Edward, Harvard Medical School
Krystal, John, Yale School of Medicine
Lisman, John, Brandeis University
Zakon, Harold, University of Texas

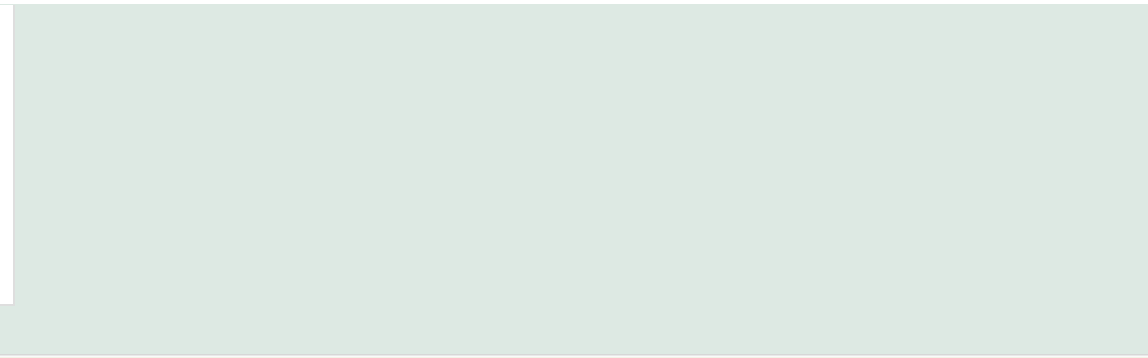
COURSE COORDINATOR

Pritchett, Dominique, Massachusetts Institute of Technology

STUDENTS

Alcantara, Lyonna, Florida State University
Brewster, Amy, Baylor College of Medicine
Corley, Michael, University of Hawaii
Cruz, Emmanuel, Ponce School of Medicine
Danborn, Barnabas, Ahmadu Bello University
Hernandez, Alice, University of Texas at El Paso
Mathew, AnnMary, SUNY Downstate
Parise, Eric, Florida State University
Snell, Heather, University of North Texas Health Science Center
Terminel, Mabel, University of Texas at El Paso
Warren, Brandon, Florida State University

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Strategies and Techniques for Analyzing Microbial Population Structures

Strategies and Techniques for Analyzing Microbial Population Structures August 1 – August 11, 2012

COURSE DIRECTORS

Mark Welch, David, Marine Biological Laboratory
Sogin, Mitchell, Marine Biological Laboratory

FACULTY

Brown, C. Titus, Michigan State University
Fuhrman, Jed, University of Southern California
Huse, Susan, Marine Biological Laboratory
Knight, Rob, University of Colorado
Quince, Christopher, University of Glasgow

LECTURERS

Gilbert, Jack, Argonne National Laboratory
Huttenhower, Curtis, Harvard School of Public Health
Konstantinidis, Kostas, Georgia Institute of Technology
Schloss, Patrick, University of Michigan

TEACHING ASSISTANTS

Pirrung, Megan, University of Colorado Denver Anschutz Medical Campus
Van Treuren, Will, University of Colorado at Boulder
Vazquez-Baeza, Yoshiki, University of Colorado at Boulder
Zhang, Ying, Woods Hole Oceanographic Institution

COURSE ASSISTANTS

Soule, Zachary, Harvard College

STUDENTS

Andam, Cheryl Marie, Cornell University
Anderson, Rika, University of Washington
Bagchi, Samik, King Abdullah University of Science and Technology
Bjork, Johannes, Institute of Marine Sciences
Brawley, Susan, University of Maine
Button, Julie, Harvard University
Chan, Yu Ki, The University of Hong Kong
Coolen, Marco, Woods Hole Oceanographic Institution
Cope, Julia, Texas A&M University
Daebeler, Anne, Netherlands Institute of Ecology
Djurhuus, Anni, Oxford University
Edge, Thomas, National Water Research Institute, Environment Canada
El Chakhtoura, Joline, King Abdullah University of Science and Technology
Ferris, Michael, Louisiana State University
Filkins, Laura, Dartmouth College
Fiore, Cara, University of New Hampshire
Fonseca, Alexis, University of Concepcion
Fu, Yunyun, Memorial University of Newfoundland
Fulbright, Scott, Colorado State University
Garcia Costas, Amaya, Montana State University, Billings
Joyner, Jessica, University of Georgia
Klepac-Ceraj, Vanja, Forsyth Institute
Knorr, Kamilla, Aarhus University
Leone, Vanessa, University of Chicago
Li, Johnny, Nestle Purina PetCare Company
Lieberman, Tami, Harvard University
Long, Hongan, University of Houston
Long, Kanya, University of California, Davis
Maestre, Juan, University of Texas at Austin
Moisander, Pia, University of Massachusetts, Dartmouth
Moseman-Valtierra, Serena, University of Rhode Island

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NGuessan, Lucie, ExxonMobil Upstream Research Company
Nichols, Ben, University of Glasgow
Ottesen, Andrea, US Food and Drug Administration
Pachiadaki, Maria, University of Kaiserslautern
Parada, Alma, University of Southern California
Pettengill, James, US Food and Drug Administration
Pinowska, Agnieszka, General Atomics
Preut, Meghan, University of New Mexico
Quaak, Frederike, Netherlands Forensic Institute
Rao, Subramanya, The University of Hong Kong
Read, Daniel, Centre for Ecology & Hydrology
Reed, Andrew, University of Minnesota Duluth
Regberg, Aaron, ExxonMobil Upstream Research Company
Reyes, Carolina, University of Bremen
Shoemaker, Katyanne, University of Massachusetts, Dartmouth
Shulse, Christine, University of Hawaii at Manoa
Sun, Xingmin, Tufts University
Taft, Diana, University of Cincinnati
Tait, Monique, University of Massachusetts-Amherst
Taylor, Christopher, University of New Orleans
Thomas, Francois, Woods Hole Oceanographic Institution
Thomson, Bruce, Centre for Ecology & Hydrology
Timme, Ruth, US Food and Drug Administration
Ting, Claire, Williams College
Twing, Katrina, East Carolina University
Vazquez, Mirna, National Autonomous University of Mexico
Williams, Thomas, University of California, Davis
Wu, Fen, New York University School of Medicine



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Workshop on Molecular Evolution
July 22 – August 1, 2012

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Hillis, David, University of Texas at Austin
Sogin, Mitchell, Marine Biological Laboratory

FACULTY

Beerli, Peter, Florida State University
Bielawski, Joseph, Dalhousie University
Dunn, Casey, Brown University
Edwards, Scott, Harvard University
Felsenstein, Joseph, University of Washington
Heath, Tracy, University of California, Berkeley
Holder, Mark, University of Kansas
Huelsenbeck, John, University of California, Berkeley
Kubatko, Laura, The Ohio State University
Lewis, Paul, University of Connecticut
Pearson, William, University of Virginia
Rokas, Antonis, Vanderbilt University
Sawyer, Sara, University of Texas at Austin
Swofford, David, Duke University
Zakon, Harold, University of Texas
Zwickl, Derrick, University of Arizona

TEACHING ASSISTANTS

McTavish, Emily Jane, University of Texas at Austin
Meehan, Conor, Dalhousie University
Meyerson, Nicholas, University of Texas at Austin
Sukumaran, Jeet, Duke University

COURSE ASSISTANT

Soule, Zachary, Harvard College

STUDENTS

Baker, EmilyClare, Fred Hutchinson Cancer Research Institute
Barber, Matthew, University of Utah
Bernal, Moises, University of Texas at Austin
Blanco Melo, Daniel, The Rockefeller University
Bradley, Alexander, Harvard University
Brawley, Susan, University of Maine
Burke Wadsworth, Crista, Tufts University
Cabezas, Patricia, Brigham Young University
Catanach, Therese, University of Illinois Urbana-Champaign
Chan, Philip, Brown University
Chaves, Paulo, New York University
Converse, Paul, Ohio University
Diehl, William, Boston College
Evsikov, Alexei, University of South Florida
Frantz, Laurent, Wageningen University
Gao, Feng, Smith College
Heath, Candice, University of Queensland
Henzy, Jamie, Boston College
Hiebert, Terra, Oregon Institute of Marine Biology
Hubbard, Katherine, Woods Hole Oceanographic Institution
Ipekdal, Kahraman, Ahi Evran University
Jones, Robin, University of Kansas
K P, Arun Kumar, Centre for DNA Fingerprinting and Diagnostics
Kantor, Rami, Brown University
Khumphai, Phataraporn, The Australian National University
Leslie, Trent, University of Cincinnati

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Lieberman, Tami, Harvard University
 Liebeskind, Benjamin, University of Texas at Austin
 Long, Kanya, University of California, Davis
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Methods in Computational
Neuroscience

Biology of Aging

Molecular Mycology

Neuroinformatics

Optical Microscopy

Summer Program in
Neuroscience, Ethics & Survival

Strategies and Techniques for
Analyzing Microbial Population
Structures

Workshop on Molecular
Evolution

Zebrafish Development

Zebrafish Development & Genetics

Zebrafish Development & Genetics

August 5 – August 19, 2012

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Schier, Alexander, Harvard University
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Ashley Marranzino, Regis University

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Angermeyer, Angus, Ecology and Evolutionary Biology

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Corman, Sarah, Ecology and Evolutionary Biology

Cui, Mengdi, Geological Sciences

Daniels, Wil, Geological Sciences

*Dutta, Anupriya, Molecular Biology, Cell Biology and Biochemistry

*Hasegawa, Yuko, Molecular Biology, Cell Biology and Biochemistry

*Riskin, Shelby, Ecology and Evolutionary Biology

Luria, Catherine, Ecology and Evolutionary Biology

Mayes, Marc, Geological Sciences

Nagy, Chelsea, Ecology and Evolutionary Biology

Porcelli, Apollonya, Sociology

Schmidt, Victor, Ecology and Evolutionary Biology

Srivastava, Akash, Molecular Biology, Cell Biology and Biochemistry

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Yang, Xi, Geological Sciences

Zheng, Yonsui, Geological Sciences

* Graduated 2012

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Rudolf Oldenbourg, Cellular Dynamics Program

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Student

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Yuko Hasegawa

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Lindsay Brin, Will Daniels

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Justine Allen

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Angermeyer

Anupriya Dutta

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Rand, David, Ecology and Evolutionary Biology
Wessel, Gary, Molecular Biology, Cell Biology, and Biochemistry
Witman, Jon, Ecology and Evolutionary Biology

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Foundations for Advanced Study in Life Sciences

David Mark Welch, Bay Paul Center

The Natural and Social Dynamics of Land Use Change

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IGERT Reverse Ecology Immersion

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Zoe Cardon, Ecosystems Center

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Selected Topics in Molecular Biophysics

Shalin Mehta, Cellular Dynamics Program

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Discover the Microbes Within!: The Wolbachia Project

Discover the Microbes Within!: The *Wolbachia* Project

A HHMI Precollege Science Education Initiative

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Mass BioTeach Conference at Framingham State University

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Peter Bangs, Dartmouth High School, Dartmouth, MA

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Kathy Elich, Hanover High School, Hanover, MA

Joseph Fiore, Westfield Vocational High School, Westfield, MA

Alexia Forhan, Assabet Valley Regional Technical High School, Marlborough, MA

Kim Gonzalez, Lowell High School, Lowell, MA

Clarice Grima, Essex Agricultural and Technical High School, Hathorne, MA

Deborah Gustafson, Greater Lowell Technical High School, Tyngsborough, MA

Monica Hayes, Assabet Valley Regional Technical High School, Marlborough, MA

Eva Holm-Andersen, Andover High School, Andover, MA

Rochelle Hoy, Bristol County Agricultural High School, Dighton, MA

Christina Jagielski, Advanced Math and Science Academy Charter School, Marlborough, MA

Kelley Kallin, Sharon High School, Sharon, MA

Steve Kaszanek, Silver Lake Regional High School, Kingston, MA

Molly Keltner, Chicopee High School, Chicopee, MA

Nicole Laguerre, Ludlow High School, Ludlow, MA

Eric Leigh, Gloucester High School, Gloucester, MA

Christina Locke, Formerly of Holbrook High School, Holbrook, MA

Brenda Marcoux, Wilmington High School, Wilmington, MA

Dawn Martell, Wilmington High School, Wilmington, MA

Mary McLaughlin, David Prouty High School, Spencer, MA

Justine McLoughlin, Sandwich High School, Sandwich, MA

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Peter Nassiff, Burlington High School, Burlington, MA

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Karen Rubino, David Prouty High School, Spencer, MA
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Shelley Seymour, Hampshire Regional High School, Westhampton, MA
Hiral Shah, Advanced Math and Science Academy Charter School, Marlborough, MA
Regina Shopiro, North Middlesex Regional High School, Townsend, MA
Emily Steinberg, Lowell High School, Lowell, MA
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Alexis Valenti, Andover High School, Andover, MA
Joyce Voorhis, Brockton High School, Brockton, MA
Joanna Wissler, Norton High School, Norton, MA

PROGRAM COORDINATOR

Michele Bahr, Marine Biological Laboratory

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Neill, Chris

Nelson, James

Peterson, Bruce

Rastetter, Edward

Gus Shaver

Tang, Jianwu

Vallino, Joseph

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Kwiatkowski, Bonnie

McHorney, Richard

Schmidt, Victor

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Brooks, Ashley, Bates College

Cunningham, Tanner, Bates College

de la Reguera, Elizabeth, Dickinson College

Glover, Katherine Ann, Sewanee: The University of the South

Goodman, Arianna, Oberlin College

Guest, Alexandra, Skidmore College

Jensen, Johanna, Colorado College

Marty-Rivera, Michael, University of Puerto Rico

Notopolous, Margaret, Skidmore College

Ohnemus, Kim, Skidmore College

Pinto, Zach, Middlebury College

Ray, Aliza, Bard College

Reeve, Jennifer, Haverford College

Xia, Shelly (Liviran), Franklin & Marshall College

Yim, Joo Young, Grinnell College



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The MBLWHOI Library is internationally recognized as defining current trends and practices in marine information sciences and bioinformatics. The MBL and the Woods Hole Oceanographic Institution (WHOI) maintain a vital partnership in the day-to-day operation of the library, which continues to build one of the most unique print and electronic literature collections in the biological, biomedical, ecological, and oceanographic sciences. In addition to serving MBL and WHOI scientists, the staff and resources of the MBLWHOI Library are utilized by the distinguished resident research and education programs of the WHOI/MIT Joint Program, the Sea Education Association, NOAA National Marine Fisheries Service, Woods Hole Research Center and the United States Geological Survey. The Library also supports a unique summer population of visiting researchers and students from more than 200 institutions worldwide. In 2010, the MBLWHOI Library became part of the MBL Center for Library and Informatics.





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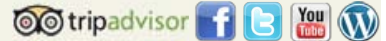
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Borgese, Jeannemarie

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White, Patricia

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Walton, Jennifer

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Westburg, Joanne

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Corliss, Mathew2
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McNamara, Noreen
Montiero, Marcus2
Roche, Donna2
Santiago, Crystal
Shum, Mei Wah
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Pamela Oldham Wilmot1

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Carroll, James
Elias, Michael
Fuglister, Charles1
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Henderson, Jon
Langill, Richard
Little, Michael
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Romano, Richard
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Sullivan, Dan1
Toner, Michael

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Schorer, Timothy

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Griffin, Mark1
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Kidder, Jeffrey2

Luongo, Frank2

Marshall, Louis2

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Shaw, Harrison2

Shepherd, Samuel2

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Woolford, Anne1

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Molongoski, Kathryn2

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Boudreau, Richard¹
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Mountford, Rebecca J.
Nasveschuk, Kent
Renna, Denis J.
Smirnov, Vladimir ²
Space, David B.

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Martini, Linda
Newhall, Katherine

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Remsen, David, Manager¹
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Burbank, Barbara
Dik, Gregory²
Grossman, William
Klimm III, Henry
Mobley, Scottie²
Simmons, Janice
Sullivan, Daniel

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Mebane, William, Systems Operator

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Early, Julie

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Baptiste, Michael
Barnes, John
Haskins, William

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Kerr, Louis, Supervisor
Stephansky, Ryan²

Grass Fellowship Program

Woolford, Ann

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Hancock-Ronemus, Amy, Campus Veterinarian
Johnson, Daniel
Kuzirian, Alan, Chair IACUC
Murphy, Meghan²
Richards, Casey²

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Borisy, Gary, President and Director¹
Ruderman, Joan, President and Director¹
Donovan, Marcia

Equal Employment Opportunity

MacNeil, Jane

¹ Including persons who joined or left the staff during 2012.

² Summer or temporary



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- Gloria Borgese, Tour Guide
- Peter Caleshu, Tour Guide
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- Ellen & George Citron, Tour Guide
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