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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### Bay Paul Center Publications


Amend, AS; Oliver, TA; Amaral-Zettler, LA; Boetius, A; Fuhrman, JA; Horner-Devine, MC; Huse, SM; Mark Welch, DB; Martiny, AC; Ramette, A; Zinger, L; Sogin, ML; Martiny, JBH. 2012. Macroecological Patterns of Marine Bacteria on a Global Scale. *Journal of Biogeography* 40(4): 800-11.


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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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Bell Center Publications

Bilogan, CK; Horb, ME. 2012. *Xenopus Staufen* 2 is Required for Anterior Endodermal Organ Formation. *Genesis* 50, 251-259. (PMC3294188)


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

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Program in Sensory Biology and Behavior

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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Program in Sensory Biology & Behavior Publications


The Marine Resources Center is a national facility for the development and use of aquatic organisms in basic biological research, aquaculture, and fisheries science. The MRC research program is composed of The Program in Sensory Biology and Neuroethology, and The Program in Scientific Aquaculture. The focus of MRC research is on biological processes integrated at the level of the whole organism. The MRC and its life support systems have increased the ability of MBL scientists to conduct research and have inspired new concepts in scientific experiments.

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Buresch, KC; Mäthger, LM; Allen, JJ; Bennice, C; Smith, N; Schram, J; Chiao, CC; Hanlon, RT. 2011. The use of background matching vs. masquerade for camouflage in cuttlefish Sepia officinalis. Vision Research 51: 2362-2368.


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In the Whitman Center for Research and Discovery, scientists are making fundamental discoveries about how organisms, including humans, reproduce and develop, how bodies fight disease, how sensory organs gather information, and how brains process it. Along with visiting library researchers and the large number of faculty associated with the summer courses, they make the MBL the largest and most exciting biological laboratory in the world.

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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,
Hedgehog and Bat

Rachel Fremont, M.S.
Albert Einstein College of Medicine
"Is Cerebellar Dysfunction A Common Mechanism in Genetic Dystonias?"

Marie Goeritz, Ph.D.
Brandeis University
"Temperature Effects on Sensorimotor Integration in a Small Neural Network"

Charlotte Grove, Ph.D.
New York University School of Medicine
"Homeotic Genes and Development of Precerebellar Neurons Responsible for Eye Movement Performance and Plasticity"

David Hunt, M.S.
Albert Einstein College of Medicine of Yeshiva University
"Characterization of Cellular Bistability in CA3 Pyramidal Neurons"

Teresa Iglesias, M.S.
University of California at Davis
"Investigating the Quiescent Sleep-like State in the Cuttlefish (Sepia officinalis): Homeostasis and the Effects of Deprivation on Learning and Memory Retention"

Craigm Radford, Ph.D.
University of Auckland
"Anterior Lateral Line Afferent Responses to Tones and Play Back Vocalisations in a Tethered Oyster Toadfish, Opsanus tau"

Sachiko Tsuda, Ph.D.
Duke-National University of Singapore Graduate Medical School
"Functional Analysis of Inhibitory Circuitry in Cerebellum"

GRASS IMAGING AWARDS
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.

Mariam Ghochani, M.S.
National Institute of Child Health and Development (NICHD)
"Detection and Quantification of Morphogen and Morphostats 3D Gradient in Brain Tumor by Use of 3D Fluorescence Multiplexed Imaging"

Gal Haspel, Ph.D.
National Institutes of Health
"Optical Reconstruction of C. elegans Neurons at Super Resolution"

Erik Zornik, Ph.D.
University of Utah
"Functional Analysis of Central Pattern Generator Neurons Using High Resolution Optical Imaging"
Whitman Center Publications

Alaviyan, KN; Dworetzky, SI; Bonanni, L; Zhang, P; Sacchetti, S; Mariggiò, MA; Onofrj, M; Thomas, A; Li, H; Mangold, JE; Signore, AP; Demarco, U; Demady, DR; Nabiil, P; Lazrove, E; Smith, PJS; Gibbkoiff, VK; Jonas, EA. 2012. Effects of Dexpramipexole on Brain Mitochondrial Conductances and Cellular Bioenergetic Efficiency. Brain Research (1446): 1-11.

Albertin, CB; Bonnaud, L; Brown, CT; Crookes-Goodson, WJ; da Fonseca, RR; Di Cristo, C; Dilkes, BP; Edsinger-Gonzales, E; Freeman, RM; Hanlon, RT; Koenig, KM; Lindgren, AR; Martindale, MQ; Minx, P; Moroz, LL; Nödl, M-T; Nyholm, SV; Ogura, A; Pungor, JR; Rosenthal, JJC; Schwarz, EM; Shigeno, S; Strugnell, JM; Wollesen, T; Zhang, G; Ragsdale, CW. 2012. Cephalopod Genomics: A Plan of Strategies and Organization. Standards in Genomic Sciences (7): 175-188.

Angueyra, JM; Pulido, C; Malagón, G; Nasi, E; Gomez, MDP. 2012. Melanopsin-expressing Amphioxus Photoreceptors Transduce Light via a Phospholipase C Signaling Cascade. PloS one (7): e29813.

Atamna-Ismael, N; Finkel, OM; Glaser, F; Sharon, I; Schneider, R; Post, AF; Spudich, JL; von Mering, C; Vorholt, JA; Iluz, D; Béjà, O; Belkin, S. 2012. Microbial Rhodopsins on Leaf Surfaces of Terrestrial Plants. Environmental microbiology (14): 140-146.


Birk, MA; Ulmer, KM; Chiao, C-C; Chubb, C; Siemann, L; Hanlon, RT. 2012. Cuttlefish camouflage: using visual psychophysics approach with grayscale disk patterns to examine disruptive body patterning. Integrative and Comparative Biology (52): E212.

Christensen-Dalsgaard, J; Brandt, C; Willis, KL; Christensen, CB; Ketten, D; Edds-Walton, P; Fay, RR; Madsen, PT; Carr, CE. 2012. Specialization for underwater hearing by the tympanic middle ear of the turtle, Trachemys scripta elegans. Proceedings. Biological Sciences / The Royal Society (279): 2816-2824.


Kanaan, NM; Morfini, G; Pigino, G; LaPointe, NE; Andreidis, A; Song, Y; Leitman, E; Binder, LI; Brady, ST. 2012. Phosphorylation in the Amino Terminus of Tau Prevents Inhibition of Anterograde Axonal Transport. *Neurobiology of Aging* (33): 826.e815-830.


Liu, Q; Dai, M; Chen, W; Huh, C-A; Wang, G; Li, Q; Charette, MA. 2012. How Significant is Submarine Groundwater Discharge and its Associated Dissolved Inorganic Carbon in a River-dominated Shelf System? *Biogeosciences* (9): 1777-1795.

Mackey, KRM; Roberts, K; Lomas, MW; Saito, MA; Post, AF; Paytan, A. 2012. Enhanced Solubility and Ecological Impact of Atmospheric Phosphorus Deposition Upon Extended Seawater Exposure. *Environmental Science & Technology* (46): 10438-10446.


Webb, SE; Cheung, CCY; Chan, CM; Love, DR; Miller, AL. 2012. Application of Complementary Luminescent and Fluorescent Imaging Techniques to Visualize Nuclear and Cytoplasmic Ca²⁺ Signalling During the in vivo Differentiation of Slow Muscle Cells in Zebrafish Embryos Under Normal and Dystrophic Conditions. *Clinical and Experimental Pharmacology & Physiology* (39): 78-86.


Laboratory of Barbara and Bruce Furie

This laboratory, which has investigated the vitamin K-dependent biosynthesis of gamma-carboxyglutamic acid in marine invertebrates, has expanded its focus to the study of the structure of the mammalian blood coagulation protein, factor VIII. Factor VIII is the protein missing or defective in hemophilia. This satellite laboratory at the MBL relates closely to the main laboratory, the Center for Hemostasis and Thrombosis Research, at Harvard Medical School.

Staff List
Furie Laboratory Staff

ADJUNCT SCIENTISTS
Barbara C. Furie, Harvard Medical School
Bruce Furie, Harvard Medical School

RESEARCH ASSOCIATES
Mingdong Huang, Harvard Medical School
Jacky Ngo, Harvard Medical School
Wayne Zhou
<table>
<thead>
<tr>
<th>Administrative Staff</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bay Paul Center Staff</td>
</tr>
<tr>
<td>Bell Center Staff</td>
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<tr>
<td>Cellular Dynamics Staff</td>
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<td>Center for Library and Informatics Staff</td>
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<td>Ecosystems Center Staff</td>
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<tr>
<td>Furie Laboratory Staff</td>
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<tr>
<td>Marine Resources Staff</td>
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<tr>
<td>2011 Marine Resources Center Interns</td>
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<tr>
<td>Volunteers</td>
</tr>
<tr>
<td>MBL Home</td>
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2011 Scholarships

Scholarship Awards

In 2011, the MBL awarded scholarships to 282 highly qualified students enabling them to participate in our discovery courses.

The Bruce and Betty Alberts Endowed Scholarship in Physiology

Driscoll, Meghan K., University of Maryland, College Park

American Society for Cell Biology

Archer, Evan W., University of Texas at Austin
Cabrera, Oscar A., Florida State University College of Medicine
Cazares, Victor A., University of Michigan
Chaves, Sindy J., University of Nevada, Reno
Jones, Bianca J., New York University School of Medicine
Lutes, Aracely A., Stowers Institute for Medical Research
Miri, Mitra L., Yale University School of Medicine
Munoz-Miranda, William J., New York University School of Medicine
Virta, Valerie C., National Institutes of Health / NICHD
Vuono, David C., Colorado School of Mines

American Society for Reproductive Medicine

Foyouzi, Nastaran, University of California, San Francisco
Raj, Renju S., University of Vermont

Center for Modular Biology Fellows

Cabrera, Oscar A., Florida State University College of Medicine
Cohen, Daniel J., University of California, Berkeley / University of California, San Francisco Joint Graduate Group
Driscoll, Meghan K., University of Maryland, College Park
Myers, Frank B., University of California, Berkeley
Tropini, Carolina, Stanford University

Biology Club of the College of the City of New York

Rice, Justin K., City College of New York

John & Elisabeth Buck Endowed Scholarship

Nattar Ranganathan, Gayathri, University of Texas at Austin
Relia, Antonella, Medical University South Carolina
C. Lalor Burdick Scholarship
Egbert, Jeremy R., Washington State University

Max M. Burger Endowed Scholarship
Dinko, Bismarck, London School of Hygiene & Tropical Medicine
Leclere, Lucas, Sars International Centre for Marine Molecular Biology

Burroughs Wellcome Fund Endowment
Chaves, Sindy J., University of Nevada, Reno
Lawton, Jennifer C., National Institute for Medical Research

Burroughs Wellcome Fund-Biology of Parasitism Course
Eshar, Shiri, The Hebrew University of Jerusalem
Jones, Lucy H., University of Edinburgh
Lawton, Jennifer C., National Institute for Medical Research
Biology of Parasitism: Modern Approaches

Biology of Parasitism
June 17 – August 6, 2011

COURSE DIRECTORS
Goldberg, Daniel, Washington University
Striepen, Boris, University of Georgia

FACULTY
Aravind, L., National Institutes of Health
Barillas-Mury, Carolina, National Institutes of Health
Belkaid, Yasmine, National Institutes of Health
Deitsch, Kirk, Weil Cornell Medical College
Engwerda, Christian, Queensland Institute of Medical Research
Field, Mark, University of Cambridge
Herbert, DeBroski, Cincinnati Children’s Research Foundation
Hill, Kent, University of California, Los Angeles
Hunter, Christopher, University of Pennsylvania
MacDonald, Andrew, University of Edinburgh
Molina-Cruz, Alvaro, National Institutes of Health
Oliveira, Luiz, National Institutes of Health/NIAID
Scott, Phillip, University of Pennsylvania
Soldati-Favre, Dominique, University of Geneva
Tachezy, Jan, Charles University
Valenzuela, Jesus, National Institutes of Health/NIAID

LECTURERS
Allen, Judith, University of Edinburgh
Billker, Oliver, Wellcome Trust Sanger Institute
Burleigh, Barbara, Harvard School of Public Health
Daily, Johanna, Einstein College of Medicine
Dawson, Scott, University of California, Davis
Elmendorf, Heidi, Georgetown University
Embley, Thomas, Newcastle University
Ferdig, Mike, Notre Dame
Hu, Ke, Indiana University
Jacobs-Lorena, Marcelo, Johns Hopkins School of Public Health
Jenkins, Marc, University of Minnesota
Jensen, Robert, Johns Hopkins Medicine
Johnson, Patricia, University of California, Los Angeles
Lujan, Hugo, Catholic University of Cordoba
Matthews, Keith, University of Edinburgh
Roditi, Isabel, University of Bern
Sher, Franklin, National Institutes of Health/NIAID
Singh, Upinder, Stanford University
Sinnis, Photini, New York University School of Medicine
Tarleton, Rick, University of Georgia
Ullu, Elisabetta, Yale University
White, Michael, University South Florida
Wikel, Stephen, University of Texas Medical Branch

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Lucas, Olivier, University of South Florida
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Santos, Joana, University of Geneva
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STUDENTS
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Hopp, Christine, London School of Hygiene and Tropical Medicine
Jia, Yonggen, China Agricultural University
Jones, Lucy, University of Edinburgh
Lawton, Jennifer, National Institute for Medical Research
Niemand, Jandell, University of Pretoria
Sanin, David, University of York
Silverman, Jason, University of Wisconsin-Madison
Tembo, Dumizulu, Malawi-Liverpool Wellcome Trust
Van Tyne, Daria, Harvard University
Walker, Dawn, The Ohio State University
Embryology: Concepts & Techniques in Modern Developmental Biology

June 4 – July 17, 2011

COURSE DIRECTORS
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Patel, Nipam, University of California, Berkeley

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McClay, David, Duke University
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Seaver, Elaine, University of Hawaii
Sherwood, David, Duke University
Technau, Ulrich, University of Vienna
Trainor, Paul, Stowers Institute
Wikramanayake, Athula, University of Miami
Zeller, Robert, San Diego State University

LECTURERS
Appel, Bruce, University of Colorado Denver
Behringer, Richard, MD Anderson Cancer Center
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Hahn, Daniel, University of Florida
Magnuson, Terry, University of North Carolina Chapel Hill
Piotrowski, Tatjana, University of Utah Medical School
Rokhsar, Daniel, University of California
Rossant, Janet, The Hospital for Sick Children
Shapiro, Michael, University of Utah
Sussel, Lori, Columbia University

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Abitua, Philip, University of California, Berkeley
Amiel, Aldine, Kewalo Marine Laboratory
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Barlow, Amanda, Stowers Institute for Medical Research
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Chang, Chenni, University of Alabama at Birmingham
Daggett, Dave, University of Connecticut
Dinwiddie, April, Yale University
Elliott, Sarah, University of Utah
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Kucenas, Sarah, University of Virginia
Lesoway, Maryna, McGill University  
Linn, Stephanie, University of Michigan  
Peng, Chieh Fu, University of Miami  
Wijesena, Naveen, University of Miami Coral Gables  
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Worley, Melanie, University of California Berkeley  

**COURSE ASSISTANTS**  
Jones, Samantha, Vassar College  
Mitchell, Maggie, University of Texas at Austin  
Sterritt, Jeffrey, Whitman College  

**STUDENTS**  
Acevedo, Julieta, Fundacion Instituto Leloir  
Almuedo Castillo, Maria, University of Barcelona  
Brooks, Eric, University of Texas at Austin  
Campanale, Joseph, Scripps Institution of Oceanography  
Chen, Yi-Ju, California Institute of Technology  
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Morrissey, Meghan, Duke University  
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Petersen, Juliette, University of Colorado – Denver, Anschutz Medical Campus  
Roscito, Juliana, University of Sao Paulo  
Sedzinski, Jakub, Max Planc Institute of Molecular Cell Biology and Genetics  
Virta, Valerie, National Institutes of Health / NICHD  
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Young, John, University of California, Berkeley  
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Frontiers in Reproduction
April 30 – June 12, 2011

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Sutherland, Ann, University of Virginia

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Reynolds, Lawrence, North Dakota State University
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Kleindienst, Sara, Max Planck Institute

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Perez, Gloria, Michigan State University

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Que, Emily, Northwestern University
Raj, Renju, University of Vermont
Schoeller, Erica, Washington University in St. Louis
Shuhaibar, Leia, University of Connecticut Health Center
Silva, Luciano, University of Sao Paulo
Skory, Robin, Northwestern University
Stojkov, Natasa, Faculty of Sciences
Xiao, Shuo, University of Georgia
Microbial Diversity

Microbial Diversity
June 11 – July 28, 2011

COURSE DIRECTORS
Buckley, Daniel, Cornell University
Zinder, Stephen, Cornell University

FACULTY
Brauer, Suzanna, Appalachian State University
Metcalf, William, University of Illinois
Orphan, Victoria, California Institute of Technology
Overmann, Jeorg, Leibniz-Institut DSMZ

LECTURERS
Angert, Esther, Cornell University
Cavanaugh, Colleen, Harvard University
Doolittle, Ford, Dalhousie University
Dubilier, Nicole, Max Planck Institute for Marine Microbiology
Dworkin, Martin, University of Minnesota
Eisen, Jonathan, University of California, Davis
Greenberg, Peter, University of Washington
Harwood, Carrie, University of Washington
Huber, Julie, Marine Biological Laboratory
Koonin, Eugene, National Institutes of Health
Kuenen, Johannes, Delft University of Technology
Leadbetter, Jared, California Institute of Technology
Moran, Nancy, Yale University
Moran, Mary Ann, University of Georgia
Nealson, Kenneth, University of Southern California
Newman, Dianne, California Institute of Technology
Ochman, Howard, Yale University
Pace, Norman, University of Colorado
Polz, Martin, Massachusetts Institute of Technology
Prosser, James, University of Aberdeen
Richardson, Ruth, Cornell University
Salyers, Abigail, University of Illinois at Urbana-Champaign
Schmidt, Tom, Michigan State University
Simmons, Sheri, Marine Biological Laboratory
Sogin, Mitchell, Marine Biological Laboratory
Stetter, Karl, University of Regensburg
Turner, Paul, Yale University
Wolfe, Ralph, University of Illinois at Urbana-Champaign
Zettler, Linda, Marine Biological Laboratory

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Kelly, Libusha, Massachusetts Institute of Technology
Kleindienst, Sara, Max Planck Institute
Pepe-Ranney, Chuck, Colorado School of Mines
Rowe, Annette, Cornell University
Wilbanks, Elizabeth, University of California, Davis

COURSE COORDINATORS
Campbell, Ashley, Cornell University
Ward, Rebekah, Emory University

COURSE ASSISTANTS
Kelly, Peter, Cornell University

STUDENTS
Armitage, David, University of California, Berkeley
Neurobiology

June 4 – July 31, 2011

COURSE DIRECTORS
Davis, Graeme, University of California, San Francisco
Jin, Yishi, University of California, San Diego

FACULTY
Aizenman, Carlos, Brown University
Araneda, Ricardo, University of Maryland
Bautista, Diana, University of California Berkeley
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Commons, Kathryn, Children’s Hospital / Harvard Medical School
Diaz, Elva, University of California Davis
Eaton, Benjamin, University Texas Health Science Center San Antonio
Galbraith, Catherine, National Institutes of Health
Galbraith, James, National Institutes of Health
Johnston, Daniel, University of Texas at Austin
Khodakhah, Kamran, Albert Einstein College of Medicine
Kim, Charlie, University of California San Francisco
Kim, Sung Hyun, Weill Cornell Medical College
Lichtman, Jeff, Harvard University
Llano, Isabel, CNRS
Marty, Alain, CNRS
Micheva, Kristina, Stanford University
Misgeld, Thomas, Technical University Munich
Pratt, Kara, Harvard Medical School/Massachusetts General Hospital
Reese, Tom, National Institutes of Health / NINDS
Ryan, Timothy, Weill Cornell Medical College
Sack, Jon, University of California
Sagasti, Alvaro, University of California, Los Angeles
Sigrist, Stephan, Freie Universität
Smith, Stephen, Stanford University School of Medicine
Stuurman, Nico, University of California, San Francisco; Howard Hughes Medical Institute
von Zastrow, Mark, University of California, San Francisco
Yasuda, Ryohei, Duke University Medical Center
Zuo, Yi, University of California, Santa Cruz

LECTURERS
Bezanilla, Francisco, University of Chicago
Castillo, Pablo, Albert Einstein College of Medicine
Cepko, Connie, Harvard Medical School
Chisholm, Andrew, University of California, San Diego
Heberlein, Ulrike, University of California, San Francisco
Huganir, Richard, Johns Hopkins University School of Medicine
Kaplan, Joshua, Massachusetts General Hospital
Kasthuri, Narayanan, Harvard University
Littleton, J. Troy, Massachusetts Institute of Technology
MacKinnon, Roderick, The Rockefeller University; Howard Hughes Medical Institute
Mrsc-Flogel, Thomas, University College London
Murphey, Rod, Florida Atlantic University
Nelson, Sacha, Brandeis University
Wong, Rachel, University of Washington
Yuste, Rafael, Columbia University

TEACHING ASSISTANTS
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Angueyra, Juan Manuel, University of Washington
Armbruster, Moritz, Rockefeller University
Bang, Sun Jung, Children’s Hospital Boston
Bergquist, Sharon, University of California, San Francisco
Neural Systems & Behavior

June 4 – July 31, 2011

COURSE DIRECTORS
Katz, Paul, Georgia State University
Knierim, James, The Johns Hopkins University

FACULTY
Angstadt, James, Siena College
Bhandawat, Vikas, Duke University
Boyden, Ed, Massachusetts Institute of Technology
Brecht, Hans, Bernstein Center for Computational Neuroscience Berlin / Humboldt University Berlin
Bucher, Dirk, University of Florida
Calabrese, Ronald, Emory University
Chacron, Maurice, McGill University
Coleman, Melissa, Claremont Colleges
Dickinson, Michael, University of Washington
Dickson, Clayton, University of Alberta
Ellerby, Dave, Wellesley College
Faumont, Serge, University of Oregon
Fortune, Eric, The Johns Hopkins University
Freeman, John, The University of Iowa
French, Kathy, University of California, San Diego
Goldwasser, Jorge, New Jersey Institute of Technology
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Kentros, Clifford, University of Oregon
Kopell, Nancy, Boston University
Kristan, William, University of California, San Diego
Maimon, Gaby, The Rockefeller University
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Rankin, Catharine, University of British Columbia
Ritt, Jason, Boston University
Sirotkin, Howard, Stony Brook University
Stein, Wolfgang, Ulm University
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Szczupak, Lidia, FCEN- Universidad de Buenos Aires
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Wagenaar, Daniel, California Institute of Technology

LECTURERS
Allen, Brian, Massachusetts Institute of Technology
Bernstein, Jacob, Massachusetts Institute of Technology
Frank, Loren, University of California, San Francisco
Greenspan, Ralph, University of California, San Diego
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Talei Franzesi, Giovanni, Massachusetts Institute of Technology

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Grewe, Jan, Ludwigs-Maximilians-Universitat Munchen
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Physiology

March 20 – April 12, 2011

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York, Andrew, National Institutes of Health / NIBIB

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Analytical and Quantitative Light Microscopy

Analytical and Quantitative Light Microscopy
May 4 – May 13, 2011

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Seiwert, Jacopo, Brown University
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Biology of the Inner Ear

August 7 – August 27, 2011

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Thiede, Benjamin, University of Virginia

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Calton, Melissa, Stanford University
BioMedical Informatics

BioMedical Informatics I
May 29 – June 4, 2011
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Phillips, Steven, National Institutes of Health
Staas, Catherine, University of Utah
Zeng, Qing, University of Utah

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Akinmade, Olufemi, National Agency for the Control of AIDS
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Cintron, Luis, PHS Medication Services
Cymet, Tyler, American Association of Colleges of Osteopathic Medicine
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Vaithyanathan, Vedana, University of Miami
Villadoniga, Graciela, Scott and White Hospital & Clinics
Winstanley, Helene, Suffolk County Community College

BioMedical Informatics II
September 18 – September 24, 2011
COURSE DIRECTORS
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Jirjis, Jim, Vanderbilt University Medical Center
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Zeng, Qing, University of Utah

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Donnald, Edward, Quinnipiac University
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Willoughby, Darriel, Veterans Affairs Nebraska Western Iowa Health Care System
Wolf, Sheldon, State of North Dakota
Wood, Mary, University of California, Davis
Summer Program in Neuroscience, Ethics & Survival
Teaching About Neurobiology of Brain Dysfunction
Workshop on Molecular Evolution
Zebrafish Development

Other Programs

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Computational Image Analysis in Cellular and Developmental Biology

Computational Image Analysis in Cellular and Developmental Biology
October 9 – October 19, 2011

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Danuser, Gaudenz, Harvard Medical School
Jaqaman, Khuloud, Harvard Medical School
Wu, Lani, University of Texas Southwestern Medical Center

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Gene Regulatory Networks

October 11 – October 22, 2011

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Optical Microscopy

October 11 – October 21, 2011

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Methods in Computational Neuroscience

Methods in Computational Neuroscience
July 31 – August 28, 2011

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Yovel, Yossi, University of Chicago
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Molecular Biology of Aging

Molecular Biology of Aging
July 24 – August 13, 2011

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Molecular Mycology

August 3 – August 19, 2011

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Wang, Xuying, Duke University
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Neuroinformatics

August 13 – August 28, 2011

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