LETTER FROM DIRECTOR / CEO & CHAIRMAN

ACCELERATING THE SCIENCE OF LIFE

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LETTER FROM THE CHAIRMAN AND THE DIRECTOR

Accelerating science, the theme of this year’s annual report, aptly reflects the exciting institutional velocity that marked 2010 at the MBL.

The most remarkable of our successes were a trifecta of history-making events that occurred in rapid succession last July:

- The establishment of the Eugene Bell Center for Regenerative Medicine and Tissue Engineering to promote research on the regeneration of damaged tissues and organs;
- The transformation of Loeb Laboratory into a modern research facility and expanded training center for the next generation of scientists; and
- The public launch of the $125 million Catalyst Campaign that is raising resources essential to the advancement of MBL science and education.

Work on these projects is ongoing and our increased pace continues. We are hiring scientists to staff the Bell Center, we are fine-tuning the facilities in Loeb and recently received LEED Gold Certification for making it a "green" building. And we continue to work with the MBL’s Board of Trustees to assure that we reach our fundraising benchmarks.

MBL Science and Education

Scientific excellence in 2010 helped keep the MBL in the world spotlight and at the forefront of the life sciences. Distinguished Scientist Shinya Inoué, for example, was honored by the Japanese Consulate for his pioneering contributions to cell biology. Ecosystems Center senior scientist Linda Deegan was appointed to a national Gulf Coast task force that will advise the Obama Administration, and at an international press conference culminating the ten-year Census of Marine Life, Bay Paul Center scientists Mitchell Sogin and colleagues revealed the startling abundance of marine microbes. MBL education was also at the forefront, thanks to the opening of the new Loeb Laboratory, support from major funders, and the formation of the Brown-MBL Partnership, which promotes research and graduate education across both institutions.

A key metric of our scientific and educational impact is peer-reviewed publication. This year MBL scientists and course alumni published their findings in top journals including Science and Nature, adding to the body of knowledge needed to solve today’s pressing biomedical and environmental problems.

Click here for full research highlights and education highlights from the past year.

Stewardship

Another significant 2010 accomplishment was the vigilant management of our finances, which remained a top priority. We are pleased to report that the MBL’s operating cash flow was positive in 2010 as in 2009. And with excellent guidance from the MBL trustees, we are carefully managing the laboratory’s long-term financial stability and using a prudent approach to all financial matters.

Looking Ahead

Strong support of the Catalyst Campaign has fueled scientific innovation, our scientists are learning more with each
with each experiment, and we are proud of our recent successes. Yet we are also mindful of challenges on the horizon. Federal cuts in science funding are occurring across the board and foundations are still recovering from the economic downturn.

As ever, we are grateful to the MBL’s trustees, corporation members, overseers, associates, donors, scientists, and staff for their hard work and generous support. We look forward to the discoveries that await us.

John W. Rowe, M.D.
Chairman of the Board

Gary G. Borisy
Director and CEO
ACCELERATING THE SCIENCE OF LIFE

Our understanding of life and the human condition is continuously strengthened by what scientists at the MBL discover. The past three decades have seen a surge of achievement in the life sciences, as new tools for genetic sequencing, microscopy, information processing, and satellite imaging have emerged at a rapid pace. MBL scientists today are unraveling biological and ecological processes that were unimaginable before. With the launch in 2010 of the MBL Catalyst Campaign: The Science of Life Accelerated, the MBL is even better poised to deliver astonishing new discoveries.

The Catalyst Campaign kickoff took place on a beautiful July day in the MBL quadrangle outside the newly renovated Loeb Laboratory, with a host of political dignitaries, trustees, scientists, students, faculty, and staff gathered to celebrate. On the stage, three of the guests of honor were MBL Board Chair John W. Rowe and his wife, Valerie, who made a leadership gift of $5 million to help establish the Eugene Bell Center for Regenerative Biology and Tissue Engineering; and Millicent Bell, who made a transformative campaign gift of $6 million and earlier gift of $2 million to the new center, which is named for her late husband.

Eloquent speeches giving testimony to the MBL’s many accomplishments and future full of potential were delivered by Rowe and other dedicated MBL supporters, including U.S. Senator John Kerry, Massachusetts Senate President Therese Murray, Edwin McClesky of Howard Hughes Medical Institute, Susan Windham-Bannister, CEO of the Massachusetts Life Sciences Center, and Catalyst Campaign chairman Jeffrey Pierce.

One of the most moving speeches of the day was by Millicent Bell (pictured above). She delivered heartfelt remarks that expressed what was so extraordinary about Eugene Bell, and what she and Eugene loved most about the MBL.

"Eugene was a person who combined the aim of human curiosity and the discovery of new truth about the nature of life—which makes a dedicated scientist—with the conviction that, somehow, all of that in the end is to serve humanity," she said.

At the MBL, she and Eugene were embraced by "a community of friends and fellow scientists that..."
combined his intellectual and scientific dreams, with his dream of community endeavor and social betterment."

Eugene Bell was a pioneer in tissue engineering, a professor of biology at MIT, and a great contributor to the MBL community for many years as a trustee, clerk of the MBL Corporation, and faculty member in the Embryology course.

Bell developed a way to grow human skin for grafting onto wounds that became the basis for a whole new field of inquiry aimed at regenerating every type of tissue—cartilage, bone, nerves, organs. Bell also founded the first tissue engineering company in the nation. The MBL’s Bell Center will continue Eugene’s lifelong dedication to life sciences research for the betterment of society, and will "be at the forefront of offering hope for treatment and cures for debilitating illness and injury,” Senator Kerry said.

When Millicent stepped down from the podium, no-one doubted that she had beautifully honored her husband, the MBL, the pursuit of science, and the dream of a better world for all. Jack Rowe stood to thank Millie, and said,

"I’m sure Millie joins Valerie and me in feeling that, in many ways, the best investments we have made in our lives have been gifts to the MBL.”
The MBL sparks biological discovery by providing a charged scientific environment and attracting the world’s leading researchers. MBL science has helped reveal the mechanisms of cells and their roles in disease, the processes that sustain life, and the genetic ancestry of life itself. It has also promoted a cross-fertilization of ideas, nurturing numerous scientific fields that continue to advance our understanding of human and environmental systems.
Eugene Bell Center For Regenerative Biology and Tissue Engineering Established

Thanks to leadership gifts from Millicent Bell and Jack and Valerie Rowe, the MBL established the Eugene Bell Center for Regenerative Biology and Tissue Engineering. The center draws upon the special advantages of marine invertebrates and other organisms to define and understand the natural processes by which damaged or aging tissues and organs can regenerate or be repaired, and to apply that knowledge to the development of medical therapies. The center’s first hire, assistant scientist Joel Smith, joined the MBL staff in the fall.
A Leap Forward For Science
The aquatic frog Xenopus is a major model for biomedical research. The amphibian’s ability to regenerate some of its tissues and organs, including its limbs, makes it a valuable tool for understanding how regeneration might be possible in humans. To help support regeneration research at the MBL and across the United States, the MBL received funding from the Eunice Kennedy Shriver National Institute of Child Health and Human Development and the National Center for Research Resources to establish a National Xenopus Resource. The resource is a key component of the Bell Center and serves as a national stock facility for scientists who study these frogs.
Japanese Government Honors MBL Distinguished Scientist

MBL Distinguished Scientist Shinya Inoué was honored with the Japanese Government’s Order of the Sacred Treasure, Gold Rays with Neck Ribbon award in recognition for his “contributions to science and the development of technologies, and the promotion of research cooperation between Japan and the United States.” The Consul General of Japan in Boston, Masaru Tsuji, conferred the honor upon Dr. Inoué at a private ceremony at the MBL in early June. Inoué has been conducting MBL research since the early 1950s and is a leading innovator in microscopy and cell biology who pioneered the imaging of live cells.
A novel pathogenic mechanism proposed for ALS
Investigators in the Whitman Center for Research and Discovery reported that the motor neuron degeneration associated with both inherited and sporadic cases of amyotrophic lateral sclerosis (ALS) may share a common pathogenic mechanism related to misfolded SOD1 protein. The research illuminated a novel therapeutic target in ALS and could eventually lead to therapeutic approaches for the treatment of this devastating neurodegenerative disease.
Identifying the Driving Forces in Human Cell Division
Whitman Investigators also described newly discovered interactions between sister kinetochores—the protein bundles in a cell at the contact point between the two identical strands of a chromosome—and microtubules, the “ropes” that attach to the kinetochores to pull the strands apart. To do this, the scientists developed a novel pipeline for preparing and photographing dividing human cells, as well as computational image analysis to quantify the interplay of sister kinetochores in three dimensions. The research group is known as the MBL Kinetochoore Consortium.
MBL Scientists Help Reveal Findings of World Ocean Microbe Census

Scientists from more than 80 countries, including 6 MBL scientists, delivered the results of the first global Census of Marine Life. In one of the largest scientific collaborations ever conducted, more than 2,700 scientists spent over 9,000 days at sea on more than 540 expeditions gathering data over a decade. Thanks to part of the census known as the International Census of Marine Microbes (ICoMM), the findings included estimates that a single liter of seawater may contain up to 38,000 bacteria, and the oceans may hold up to 1 billion kinds of marine microbes. The MBL played a lead role in ICoMM.
Aquaculture Programs in Haiti and Southern New England

Researchers in the Marine Resources Center helped launch a turnkey fish production system for an Aquaculture Learning Center at a high school near Jacmel, Haiti. The program will teach the students basic fish husbandry techniques and provide them with thousands of tons of fish. Closer to home, the MBL led efforts to seed and harvest the first successful offshore mussel farms in southern New England, in a project that brought together scientists, fishermen, and processors.
A Future With or Without Trees
An MBL-Brown study estimated future emissions of carbon dioxide, nitrous oxide, and methane in the Brazilian Amazon state of Mato Grosso, by combining 105 years of historical data on land-use changes with possible scenarios for future deforestation and land use in the region. The results indicated that a pledge by the Mato Grosso government to reduce deforestation rates by 89 percent by 2020 would be an effective way to minimize future greenhouse gas emissions.
A New Strategy For Polar Ocean Observation
A team of oceanographers, including Ecosystems Center director Hugh Ducklow, outlined a polar ocean observation strategy designed to revolutionize scientists’ understanding of marine ecosystem response to climate change. The approach, which calls for the use of a suite of automated technologies that complement traditional data collection, could serve as a model for marine ecosystems worldwide and help form the foundation for a comprehensive polar ocean observation system.
Biodiversity Heritage Project Wins Award
The Biodiversity Heritage Library (BHL), a consortium of 12 major research libraries that includes the MBLWHOI Library, added more than 14,000 records of digitized materials to WorldCat, the world’s largest network of library content and services, making historically significant biodiversity literature available to libraries and researchers worldwide. For this effort, BHL was awarded the John Thackray Medal by the London-based Society for the History of Natural History. The medal acknowledges 'significant achievement in the preceding three years in the history of biological and earth sciences.'
Cellular Dynamics Program Expands Its Cell Imaging Expertise
Advanced imaging expert Tomami Tani, formerly of Japan’s Hokkaido University, joined the Cellular Dynamics Program’s imaging group as an associate scientist. Tani has been instrumental in developing new methods of imaging single molecules inside living cells.
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.

Publications | Staff List
Josephine Bay Paul Center Publications


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.
Ecosystems Center Publications

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WHITMAN CENTER FOR VISITING RESEARCH

In the Whitman Center for Visiting Research, 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.
Whitman Center Publications:


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MARINE RESOURCES CENTER

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.

Publications | Staff List
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The Cellular Dynamics Program aims to accelerate the knowledge of basic biology and disease through the development and utilization of tools customized to shed light on life’s most essential processes. Established in 2008, the program merges the extraordinary imaging talents of the Architectural Dynamics in Living Cells Program with the unique expertise of the Molecular Physiology Program and the BioCurrents Research Center.

Publications | Staff List
Cellular Dynamics Program Publications


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Launched in 2007, the Encyclopedia of Life (EOL) is a monumental, unprecedented effort to create a Web page for all 1.9 million named species of animals, plants, and other forms of life on Earth. Intended as a tool for scientists and policymakers, and a fascinating resource for anyone interested in the living world, the EOL is being developed by a unique collaboration between scientists and the general public. The MBL is part of an EOL consortium that includes Harvard University, the Smithsonian Institution, the Field Museum of Chicago, the Biodiversity Heritage Library, and Missouri Botanical Garden. The MBL's Biodiversity Informatics Group hosts [www.eol.org](http://www.eol.org) and is developing the software infrastructure and Web portal for the EOL.

**Publications | Staff List**
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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
MBL EDUCATION HIGHLIGHTS
Each year the MBL trains more than 450 students as part of its education program, which offers a level of training and mentoring available nowhere else. In addition to our renowned summer courses, the MBL offers a joint Ph.D. program with Brown University, undergraduate training, workshops for K-12 teachers, and hands-on lab and field courses for science journalists.
Celebrating High-Impact Science

Elected officials, including Senator John Kerry, Congressman Bill Delahunt, and Senate President Therese Murray gathered at the MBL on July 23 to celebrate the completion of a $25 million renovation of Loeb Laboratory, the MBL’s central research training facility. The celebration featured the public kickoff of the MBL’s Catalyst Campaign and the announcement of the founding of the Eugene Bell Center for Regenerative Biology and Tissue Engineering. The Loeb renovation received a Leadership in Energy and Environmental Design gold certification by the U.S. Green Building Council. LEED is the nation’s preeminent certification program for the design, construction, and operation of high-performance green buildings.
Powerful Brown-MBL Partnership Launched

Building on the success of the joint Brown-MBL Ph.D. program, the Brown-MBL Partnership was forged to solidify the alliance even further. The partnership will generate new joint research opportunities, strengthen graduate education, and enrich academic offerings across the two institutions. The program directorship, held by MBL senior scientist Christopher Neill, is supported by an endowment established by MBL Trustee and Brown Trustee Emeritus Charles Rosenthal and his wife, Phyllis. (Pictured left, L-R: Brown University Chancellor Thomas Tisch, Christopher Neill, Phyllis and Charles Rosenthal, Brown President Ruth Simmons, and MBL Director Gary Borisy.)
Training Tomorrow’s Scientists
In 2010, the MBL offered seven summer and 14 special topics courses with emphasis on advanced research techniques in fields including cell physiology, microbial diversity, neuroscience, and parasitology, and awarded $645,446 in student scholarships. The courses educated 477 students from 297 institutions and 35 countries and were served by 743 faculty, staff, and lecturers from 249 institutions and 39 countries.
Major Support For MBL Education Programs
Continued and new major support for the MBL education program included grants from the Howard Hughes Medical Institute, Burroughs Wellcome Fund, The Ellison Medical Foundation, The Grass Foundation, and the Gordon and Betty Moore Foundation. Government support included grants from the National Institutes of Health, the Department of Energy, the NASA Astrobiology Institute, and the National Science Foundation.
Outstanding Scientist-Educators Lead MBL Courses
The tradition of attracting scientists at the top of their fields continued in 2010. The year began with the appointment of new MBL Education Director, William Reznikoff, former chairman and professor emeritus, Department of Biochemistry, University of Wisconsin, and member of the American Academy of Arts. The MBL also recruited the following new course directors: Deborah Hogan, Dartmouth Medical School and Andrew Alspaugh, M.D., Duke University School of Medicine (Molecular Mycology course); Boris Striepen, University of Georgia (Biology of Parasitism course); Graeme Davis, University of California, San Francisco (Neurobiology course); and Michael Granato, University of Pennsylvania School of Medicine (Zebrafish Development and Genetics course).
New Program Transforms Undergraduates Into Researchers

Ten undergraduates from universities across the United States participated in the inaugural year of the MBL’s Biological Discovery in Woods Hole (BDWH) program. The program, funded by a NSF Research Experiences for Undergraduates grant, provides promising juniors and seniors with in-depth research in the MBL’s unique scientific setting and mentoring by MBL investigators.
Scientists, Artists, Thinkers, and Creators Gather in Woods Hole
TEDxWoodsHole: xPlorations, a multidisciplinary event that brought together scientists, artists, thinkers, and creators from the Woods Hole community and beyond, was held in Lillie Auditorium in October. This independent TEDx event, which featured unique talks, stimulating performances, and TedTalk videos, was operated under a license from TED, a nonprofit organization devoted to Ideas Worth Spreading. TEDxWoodsHole was co-sponsored by the MBL and Woods Hole Oceanographic Institution.
Scholarship Awards

**The Bruce and Betty Alberts Endowed Scholarship in Physiology**
Cristo, Ines R., Instituto Gulbenkian de Ciencia
Eun, Ye Jin, University of Wisconsin-Madison

**American Society for Cell Biology**
Bonilla, Sylvia I., Purdue University
Camarillo, David B., Hansen Medical, Inc.
Hamilton, VaNae N., Meharry Medical College
Herrera, Linda J., University of Texas at El Paso
Irizarry, Ivelisse, Universidad del Turabo
Ramirez, Mercedes, University of California, Santa Barbara
Sosa, Ramiro ("Thomas") T., The University of Texas at Austin
Weaver, Lesley N., Indiana University-Bloomington

**John & Elisabeth Buck Endowed Scholarship**
Dick, Lindsay L., The Rockefeller University

**C. Lalor Burdick Scholarship**
Kong, Betty Y., Northwestern University

**Max M. Burger Endowed Scholarship**
Cao, Xinwei, St. Jude Children's Research Hospital
Konopova, Barbora, University of Cambridge

**Burroughs Wellcome Fund-Biology of Parasitism Course**
Conrad, Melissa D., NYU Langone Medical Center
Dupont, Christopher D., University of Pennsylvania
Hamilton, VaNae N., Meharry Medical College
Hauussig, Joana M., Max Planck Institute for Infection Biology
Herrera, Linda J., University of Texas at El Paso
Kisalu, Neville K., University of California Los Angeles
Mahajan, Vinay S., Brigham and Women's Hospital
Mugnier, Monica R., Rockefeller University
Protasio, Anna V., Wellcome Trust Sanger Institute
Rada, Petr, Charles University

**Burroughs Wellcome Fund-Frontiers in Reproduction Course**
Amaral, Sandra G., University of Coimbra
Care, Alison S., University of Adelaide
Evans, Jemma, Prince Henry's Institute
Fernandez, Marina O., University of California San Diego
Galdones, Eugene, Northwestern University
Joshi, Niraj R., The M S University of Baroda
Kristensen, Stine Gry G., University Hospital of Copenhagen
Nabeshima, Hiroshi, Tohoku University Hospital
Sokalska, Anna, University of California, Davis

**Burroughs Wellcome Fund-Molecular Mycology Course**
Carlisle, Patricia L., Univ of Texas Health Science Center, San Antonio
Carmen, John C., University of Wisconsin-Madison
Castillo, Luis C., University of Aberdeen
Fairn, Gregory D., Hospital for Sick Children
Feretzaki, Marianna, Duke University
Garcia-Rodas, Rocio, National Centre for Microbiology
Garcia-Solache, Monica A., Albert Einstein College of Medicine
Gilmore, Sarah A., University of California, San Francisco
Grafh, Nora, Montana State University
Linden, Jennifer R., Brown University
Gary N. Calkins Memorial Scholarship
Roh, Jinsook, Northwestern University

Center for Modular Biology Fellows
Bisaria, Namita, Stanford University
DeBerg, Hannah A., University of Illinois at Urbana-Champaign
Muenster, Stefan, Max-Planck-Institute for the Science of Light
Sosa, Ramiro ("Thomas") T., The University of Texas at Austin
Weaver, Lesley N., Indiana University-Bloomington

The Company of Biologists Ltd Scholarship
Bickley, Sorrel R.B., The National Institute for Medical Research
Grosse, Ann M., University of Michigan
Hiebert, Laurel S., University of Oregon

Edwin Grant Conklin Memorial Fund
Bagherie-Lachidan, Mazdak, Mount Sinai Hospital
Konopova, Barbora, University of Cambridge
Liu, Qinwen, University of Maryland at College Park

Course Funds
Akinloye, Oluyemi, Cape Peninsula University of Technology
Amar, Lahouari, Lund University
Baez-Vega, Perla M., Ponce School of Medicine
Colon Diaz, Marcarmen, Ponce School of Medicine
Garovic, Vesna D., Mayo Clinic
Goyal, Ravi, Loma Linda University
Hirsch, Calley L., MD Anderson Cancer Center
Jimenez, Patricia T., Washington University in St. Louis
Joshi, Niraj R., The M S University of Baroda
Kalisz, Mark, Hagedorn Research Institute
Kelly, Victoria R., University of Michigan/University of Pittsburgh
Kong, Betty Y., Northwestern University
Lopes, Mariana A.S., Federal University of Rio de Janeiro
Lorenzon, Aline R., University of Sao Paulo
Lowther, Katie M., University of Connecticut Health Center
Nakanoh, Shota, Kyoto University
Price, Gabrielle M., Massachusetts General Hospital/ Harvard Medical School
Purcell, Scott H., Washington University in St. Louis
Telugu, Bhanu Prakash V.L., University of Missouri, Columbia
Wieser, Friedrich A., Emory University School of Medicine
Zhai, Yuxin, University of Texas MD Anderson Cancer Center
Kong, Betty Y., Northwestern University
Lopes, Mariana A.S., Federal University of Rio de Janeiro
Lorenzon, Aline R., University of Sao Paulo
Lowther, Katie M., University of Connecticut Health Center
Nakanoh, Shota, Kyoto University
Price, Gabrielle M., Massachusetts General Hospital/ Harvard Medical School
Purcell, Scott H., Washington University in St. Louis
Telugu, Bhanu Prakash V.L., University of Missouri, Columbia
Wieser, Friedrich A., Emory University School of Medicine
Zhai, Yuxin, University of Texas MD Anderson Cancer Center

Bernard Davis Endowed Scholarship Fund
Hall, Edward K., University of Vienna

The Henry L. and Grace Doherty Charitable Foundation Endowed Instructional Fund
Fernandes, Vilaiwan M., McGill University
Merico, Valeria, University of Pavia

Mac V. Eds, Jr. Endowed Scholarship Fund
Chung, Mei-I, University of Texas at Austin

Embryology-NIH Grant
Bickley, Sorrel R.B., The National Institute for Medical Research
Bonilla, Sylvia I., Purdue University
Clanton, Joshua A., Vanderbilt University
Elliott, Sarah A., University of Utah
Grosse, Ann M., University of Michigan
Hiebert, Laurel S., University of Oregon
O’Connor, Amber K., University of Alabama at Birmingham
Gerald D. & Ruth L. Fischbach Endowed Scholarship
Dick, Lindsay L., The Rockefeller University
Lee, Young Il, The University of Texas at Austin

Grass Foundation-Neural Systems & Behavior Course
Jung, Sarah Nicola, Max Planck Institute of Neurobiology
Lazarus, Kerry H., Carnegie-Mellon University

Grass Foundation-Neurobiology Course
Qiu, Rong, Chinese Academy of Sciences

Caswell Grave Scholarship Fund
Brachmann, Isabel, University of Heidelberg
Crow-Sanchez, Karen, San Francisco State University
Dutko, James A., University of Pennsylvania, School of Medicine
Green, Amelia A., Harvard Medical School
Karsi, Attila, Mississippi State University

Thomas B. Grave and Elizabeth F. Grave Scholarship
Kohl, Johannes, MRC Lab of Molecular Biology
Peng, Anthony W., Stanford University-OHNS
Priesemann, Viola, Max Planck Institute for Brain Research
Qiu, Rong, Chinese Academy of Sciences

Aline D. Gross Scholarship Fund
Betke, Katherine M., Vanderbilt University Medical Center
Mullins, Olivia J., University of Virginia

William Randolph Hearst Educational Endowment
Conrad, Melissa D., NYU Langone Medical Center
Dahan-Pasternak, Noa, The Hebrew University of Jerusalem
Hasnain, Sumaira Z., Wellcome Trust Centre for Cell-Matrix Res.
Montenegro Gouveia, Susana, Erasmus Medical Center
Muenster, Stefan, Max-Planck-Institute for the Science of Light
Pierce, Nathan W., California Institute of Technology
Rada, Petr, Charles University
Salles Dias, Marcos Vinicios, Sao Paulo University
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Campbell, Kate M., U.S. Geological Survey
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Cristo, Ines R., Instituto Gulbenkian de Ciencia
Franz, Anna, Sir William Dunn School of Pathology
Haussig, Joana M., Max Planck Institute for Infection Biology
Kohl, Johannes, MRC Lab of Molecular Biology
Lee, Young Il, The University of Texas at Austin
Powell, Davalyn R., University of Colorado at Denver

International Brain Research Organization
Angueyra, Juan M., University of Washington
Gunaratne, Charuni A., Georgia State University
Phoka, Elena, Imperial College London
Rajaram, Siddharth, Boston University
Shushruth, S., University of Utah

Holger & Friederun Jannasch Scholarship in Microbial Diversity
Jaekel, Ulrike, Max Planck Institute for Marine Microbiology
Melton, Emily D., Eberhard-Karls-Universitat Tubingen

Ernest E. Just Fellowship
Camarillo, David B., Hansen Medical, Inc.
Irizarry, Ivelisse, Universidad del Turabo
Ramirez, Mercedes, University of California, Santa Barbara

Benjamin Kaminer Scholarship
Lindeboom, Jelmer J., Wageningen University
Manor, Uri, National Institutes of Health  
Silkworth, William T., Virginia Polytechnic Institute & State University

**Arthur Klorfein Scholarship and Fellowship Fund**  
Good, Matthew C., University of California, San Francisco  
Langworthy, Melissa M., University of Colorado Denver  
Nowotarski, Stephanie H., University of North Carolina at Chapel Hill  
Soudry, Daniel, Technion - Israel Institute of Technology

**Frank R. Lillie Fellowship and Scholarship Fund**  
Albantakis, Larissa, Universitat Pompeu Fabra  
Corbett, Elaine A., Northwestern University  
Dumitriu, Dani, Mount Sinai School of Medicine  
Gerhard, Felipe, Lab for Comp. Neuroscience, BMI  
Hohagen, Jennifer, Georg-August-University of Goettingen  
Lajoie, Guillaume, University of Washington  
Liu, Qinwen, University of Maryland at College Park  
Livneh, Uri, Weizmann Institute of Science  
Powell, Davalyn R., University of Colorado at Denver  
Soukup, Vladimir, Charles University  
Ueda, Nobuo, University of Queensland  
Xing, Dajun, New York University

**Jacques Loeb Founders’ Scholarship Fund**  
Eun, Ye Jin, University of Wisconsin-Madison

**S.O. Mast Memorial Fund**  
Fior, Rita L., Instituto de Medicina Molecular  
Gagnon, James A., Brown University

**Mastroinanni/Segal Scholarship**  
Purcell, Scott H., Washington University in St. Louis

**MBL Associates Endowed Scholarship Fund**  
Vafabakhsh, Reza, University of Illinois at Urbana-Champaign

**MCN-NIH Grant**  
Albantakis, Larissa, Universitat Pompeu Fabra  
Chaisanguanthum, Kris S., University of California, San Francisco  
Corbett, Elaine A., Northwestern University  
Dumitriu, Dani, Mount Sinai School of Medicine  
Gerhard, Felipe, Lab for Comp. Neuroscience, BMI  
Jarvis, Sarah J., University of Freiburg  
Kumar, Ashok L., Carnegie Mellon University  
Lajoie, Guillaume, University of Washington  
Livneh, Uri, Weizmann Institute of Science  
Otte, Stephani L., Salk Institute  
Patino, Gustavo A., University of Michigan  
Prentice, Jason S., University of Pennsylvania  
Roh, Jinsook, Northwestern University  
Rubin, Ran, Hebrew University of Jerusalem  
Soudry, Daniel, Technion  
Xing, Dajun, New York University

**Microbial Diversity -DOE grant**  
Li, Meng, The University of Hong Kong  
Wilbanks, Elizabeth G., University of California, Davis  
Williams, David, University of Connecticut

**The Gordon & Betty Moore Foundation**  
Henriksen, James R., Idaho National Laboratory  
Ling, Alison L., University of Colorado, Boulder  
Frank Morrell Endowed Memorial Scholarship  
Rao, Yanhua, Duke University  
Zwart, Maarten F., University of Cambridge

**Mountain Memorial Fund Scholarship**  
Manor, Uri, National Institutes of Health  
Robinson-Mosher, Avi, Stanford University  
Silkworth, William T., Virginia Polytechnic Institute & State University

**NASA-Microbial Diversity Course**  
Henriksen, James R., Idaho National Laboratory

Neural Systems & Behavior Course Endowed Scholarship Fund
el Jundi, Basil, Philipps University of Marburg
Lazarus, Kerry H., Carnegie-Mellon University

Neuroinformatics -NIH Grant
Ali, Farhan, Harvard University
Aparicio, Paul L., Massachusetts Institute of Technology
Bardin, Jonathan C., Well Cornell Graduate School
Becker, Nadine, University of Bristol
Carrasco, Andres, University of Western Ontario
Chen, Zhiping, University of California, Los Angeles
Collins, Lyndsey E., University of Connecticut
Dehghani, Nima, CNRS (UPR 2191)
Gao, Xiaojing, Stanford University
Goulet, Julie, Radboud University
Graham, Dustin M., University of Virginia
Grion, Natalia, Scuola Internazionale degli Studi Superiori Avanzati (SISSA)
Haufler, Darrell A., Rutgers-Newark
Hermes, Dora, Rudolf Magnus Institute of Neuroscience
Kamrunnahar, Mst, Penn State University
Likhtik, Ekaterina, Columbia University
Mankin, Emily, University of California, San Diego
Markowitz, Jeffrey E., Boston University
McMahon, Chantal M., Drexel University
Romano, Sebastian A., Ecole Normale Superieure de Paris
Stolzberg, Daniel, University of Buffalo
Vazquez Zuniga, Yuriria, Universidad Nacional Autónoma de Mexico (UNAM)
Zeid, Omar M., Boston University
Becker, Nadine, University of Bristol
Carrasco, Andres, University of Western Ontario
Chen, Zhiping, University of California, Los Angeles
Collins, Lyndsey E., University of Connecticut
Dehghani, Nima, CNRS (UPR 2191)
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Goulet, Julie, Radboud University
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Mankin, Emily, University of California, San Diego
Markowitz, Jeffrey E., Boston University
McMahon, Chantal M., Drexel University
Romano, Sebastian A., Ecole Normale Superieure de Paris
Stolzberg, Daniel, University of Buffalo
Vazquez Zuniga, Yuriria, Universidad Nacional Autónoma de Mexico (UNAM)
Zeid, Omar M., Boston University

NS&B-NIH Grant
Cowan, Noah J., Johns Hopkins University
Gage, Gregory John, University of Michigan
Kathman, Nicholas D., Case Western Reserve University
Saade, Carole J., Florida State University
Schrode, Katrina M., University of Minnesota

National Science Foundation-Microbial Diversity
Humphrey, Parris T., University of Arizona
Irizarry, Ivelisse, Universidad del Turabo
Singer, Esther, University of Southern California
Wang, Harris H., Harvard University
Williams, David, University of Connecticut

Pfizer Inc. Endowed Scholarship
Kwon, Ronald Y., La Jolla Bioengineering Institute
Leung, Kin Mei, Medical Research Council
Malkinson, Guy, The Weizmann Institute of Science
Siksou, Lea, INSERM U1024

Physiology -NIH Grant
Barlan, Kari L., Northwestern University
DeBerg, Hannah A., University of Illinois at Urbana-Champaign
Physiology Course Endowment
Eun, Ye Jin, University of Wisconsin-Madison
Robinson-Mosher, Avi, Stanford University

William Townsend Porter Scholarship
Aparicio, Paul L., Massachusetts Institute of Technology
Camarillo, David B., Hansen Medical, Inc.
Carrasco, Andres, University of Western Ontario
Jimenez, Patricia T., Washington University in St. Louis
Lugo, Joaquin N., Baylor University
Sosa, Ramiro ("Thomas") T., The University of Texas at Austin
Weaver, Lesley N., Indiana University-Bloomington
Zeid, Omar M., Boston University

Herbert W. Rand Fellowship and Scholarship Fund
Irizarry, Ivelisse, Universidad del Turabo
Li, Meng, The University of Hong Kong
Melton, Emily D., Eberhard-Karls-Universitat Tubingen
Meredith, Laura K., Massachusetts Institute of Technology
Pavissich, Juan P., University of Notre Dame
Sharon, Gil, Tel Aviv University

Lola Ellis Robertson Endowed Scholarship
Bickley, Sorrel R.B., The National Institute for Medical Research
Cao, Xinwei, St. Jude Children's Research Hospital
Castillo, Hozana A., Sao Paulo University
Chung, Mei-I, University of Texas at Austin
Franz, Anna, Sir William Dunn School of Pathology
Liu, Qinwen, University of Maryland at College Park
Manella, Laura C., Cornell University
Qiu, Rong, Chinese Academy of Sciences
Silkworth, William T., Virginia Polytechnic Institute & State University
Ueda, Nobuo, University of Queensland
Vafabakhsh, Reza, University of Illinois at Urbana-Champaign
Vasconcelos, Raquel O., University of Lisbon
Vogel, Sven K., Dresden University of Technology
Zhu, Xuejun, Peking University
Zwart, Maarten F., University of Cambridge

Robertson Educational Fund
Vafabakhsh, Reza, University of Illinois at Urbana-Champaign

Florence C. Rose and S. Meryl Rose Endowed Scholarship Fund
Bagherie-Lachidan, Mazdak, Mount Sinai Hospital

Ruth Sager Memorial Scholarship
Mullins, Olivia J., University of Virginia

Howard A. Schneiderman Endowed Scholarship
Grove, Charlotte L., Albert Einstein College of Medicine

Milton L. Shifman Endowed Scholarship
Agrochao, Margarida L., Harvard University
Bang, Sun Jung, Children's Hospital Boston/Harvard Medical School
Carag Krieger, Christine, University of Pennsylvania
Dupont, Christopher D., University of Pennsylvania
Kingsley, Evan P., Harvard University
Manella, Laura C., Cornell University
Tarver, James E., University of Bristol
Wang, Harris H., Harvard University
Xu, Yan, Princeton University

Moshe Shilo Memorial Scholarship Fund
Sharon, Gil, Tel Aviv University

Society for Developmental Biology
Bonilla, Sylvia I., Purdue University
Clanton, Joshua A., Vanderbilt University
Elliott, Sarah A., University of Utah

**Society of General Physiology**
Carag Krieger, Christine, University of Pennsylvania
Eun, Ye Jin, University of Wisconsin-Madison
Kathman, Nicholas D., Case Western Reserve University
Peng, Anthony W., Stanford University-OHNS

**Marjorie R. Stetten Scholarship Fund**
Bienkowska, Dominika, Research Institute of Molecular Pathology (IMP)

**Horace W. Stunkard Scholarship Fund**
Savelli, Francesco, Johns Hopkins University
Suver, Marie P., California Institute of Technology
Wilbanks, Elizabeth G., University of California, Davis

**Surdna Foundation Scholarship**
Linden, Jennifer R., Brown University
O'Meara, Teresa R., Duke University
Orta Zavalza, Emmanuel, Inst Potosino de Investigacion Científica y Tecnologica
Rosenbaum, Philipp, University of Cologne
Salles Dias, Marcos Vinicios, Sao Paulo University
Rosenbaum, Philipp, University of Cologne
Salles Dias, Marcos Vinicios, Sao Paulo University

**Eva Szent-Györgyi Scholarship Fund**
Anupama H.L., National Centre for Biological Sciences

**John & Madeleine Trinkaus Endowed Scholarship**
Castillo, Hozana A., Sao Paulo University

**Salman A. Waksman Endowed Scholarship in Microbial Diversity**
Hall, Edward K., University of Vienna
Ling, Alison L., University of Colorado, Boulder

**The Wellcome Trust**
do Monte, Rubens Lima, Federal University of Minas Gerais
Frasch, Alejandra P., Instituto de Investigaciones (IIB-INTECH)
Tshitenge, Christine T., MRC National Institute for Medical Research

**William Morton Wheeler Family Founders’ Scholarship**
Green, Amelia A., Harvard Medical School
Zekert, Nadine, Karlsruhe Institute of Technology (KIT)

**Walter L. Wilson Endowed Scholarship Fund**
Anupama H.L., National Centre for Biological Sciences

**Zebrafish-NIH Grant**
Adams, Meghan S., Harvard-MGH
Breton, Ghislain, University of California, San Diego
Das, Bhaskar C., Albert Einstein College of Medicine
Dennis, Megan Y., University of Washington

**Anita Zorzoli Memorial Fund**
Lin, Yihan, University of Chicago
Mchedlishvili, Nunu, Swiss Federal Institute of Technology Zurich (ETH Zürich)
SUMMER COURSES:
- Biology of Parasitism
- Embryology
- Frontiers in Reproduction
- Microbial Diversity
- Neurobiology
- Neural Systems & Behavior
- Physiology

SPECIAL TOPICS:
- Analytical & Quantitative Light Microscopy
- Biology of the Inner Ear
- BioMedical Informatics I
- BioMedical Informatics II
- Frontiers in Stem Cells & Regeneration
- Fundamental Issues in Vision Research
- Gene Regulatory Networks
- Methods in Computational Neuroscience
- Molecular Biology of Aging
- Molecular Mycology
- Neuroinformatics
- SPINES
- Workshop on Molecular Evolution
- Zebrafish Course

OTHER PROGRAMS:
- Brown-MBL Program
Semester in Environmental Science
Logan Science Journalism Program
NASA Planetary Biology Internship Program
SUMMER COURSES:

- Biology of Parasitism
- Embryology
- Frontiers in Reproduction
- Microbial Diversity
- Neurobiology
- Neural Systems & Behavior
- Physiology

SPECIAL TOPICS:

- Analytical & Quantitative Light Microscopy
- Biology of the Inner Ear
- BioMedical Informatics I
- BioMedical Informatics II
- Frontiers in Stem Cells & Regeneration
- Fundamental Issues in Vision Research
- Gene Regulatory Networks
- Methods in Computational Neuroscience
- Molecular Biology of Aging
- Molecular Mycology
- Neuroinformatics
- SPINES
- Workshop on Molecular Evolution
- Zebrafish Course

OTHER PROGRAMS:

- Brown-MBL Program

Biology of Parasitism

June 11 – July 31, 2010

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

FACULTY
Barillas-Mury, Carolina, National Institutes of Health
Belkaid, Yasmine, National Institutes of Health
Deitsch, Kirk, Weill Cornell Medical College
Field, Mark, University of Cambridge
MacDonald, Andrew, University of Edinburgh
Valenzuela, Jesus, NIH / National Institute of Allergy and Infectious Diseases
Ward, Gary, University of Vermont

LECTURERS
Allen, Judith, University of Edinburgh
Boothroyd, John, Stanford University
Bruchhaus, Iris, Bernhard Nocht Institute for Tropical Medicine
Burleigh, Barbara, Harvard School of Public Health
Carrington, Mark, University of Cambridge
Daily, Johanna, Albert Einstein College of Medicine
Engwerda, Christian, Queensland Institute of Medical Research
Ferdig, Michael, University of Notre Dame
Ferguson, Michael, University of Dundee
Frischknecht, Friedrich, University of Heidelberg Medical School
Grecis, Richard, University of Manchester
Hu, Ke, Indiana University
Jacobs-Lorena, Marcelo, Johns Hopkins School of Public Health
Jenkins, Marc, University of Minnesota
Johnson, Patricia, University of California, Los Angeles
Kamhawi, Shaden, National Institutes of Health
Matuschewski, Kai, Max Planck Institute for Infection Biology
McKerrow, James, University of California, San Francisco
Michaeli, Shulamit, Bar-Ilan University
Robey, Ellen, University of California, Berkeley
Roditi, Isabel, University of Bern
Sacks, David, NIH / National Institute of Allergy and Infectious Diseases
Samuelson, John, Boston University
Scott, Phillip, University of Pennsylvania
Sher, Franklin, NIH / National Institute of Allergy and Infectious Diseases
Sinden, Robert, Imperial College London
Sinnis, Photini, New York University School of Medicine
Tarleton, Rick, University of Georgia
Wikel, Stephen, University of Texas Medical Branch

TEACHING ASSISTANTS
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Leung, Ka Fai, University of Cambridge
Molina-Cruz, Alvaro, National Institutes of Health
Oliveira, Luiz, NIH / National Institute of Allergy and Infectious Diseases
Williams, Christopher, Georgetown University
Wohlfert, Elizabeth, National Institutes of Health

COURSE ASSISTANTS
Docampo, Melissa, University of Georgia
London, Jacob, N/A
McManus, Lisa, Georgetown University
| Semester in Environmental Science |
| Logan Science Journalism Program |
| NASA Planetary Biology Internship Program |

### STUDENTS
- Ankarklev, Carl-Johan, Uppsala University
- Conrad, Melissa, NYU Langone Medical Center
- Dahan-Pasternak, Noa, The Hebrew University of Jerusalem
- do Monte, Rubens, Federal University of Minas Gerais
- Dupont, Christopher, University of Pennsylvania
- Frasch, Alejandra, Instituto de Investigaciones
- Hamilton, VaNae, Meharry Medical College
- Hasnain, Sumaira, Wellcome Trust Centre for Cell-Matrix Res.
- Haussig, Joana, Max Planck Institute for Infection Biology
- Herrera, Linda, University of Texas at El Paso
- Kisolu, Neville, University of California, Los Angeles
- Mahajan, Vinay, Brigham and Women's Hospital
- Mugnier, Monica, The Rockefeller University
- Protasio, Anna, Wellcome Trust Sanger Institute
- Rada, Petr, Charles University
- Tshitenge, Christine, MRC National Institute for Medical Research
Embryology
June 12 - July 25, 2010

**COURSE DIRECTORS**
Niswander, Lee, University of Colorado Denver
Patel, Nipam, University of California, Berkeley

**FACULTY**
Amacher, Sharon, University of California, Berkeley
Baker, Clare, University of Cambridge
Collazo, Andres, House Ear Institute
Fitch, David, New York University
Gregor, Thomas, Princeton University
Harirahan, Iswar, University of California, Berkeley
Henry, Jonathan, University of Illinois
Keller, Raymond, University of Virginia
Khokha, Mustafa, Yale University
King, Nicole, University of California, Berkeley
Martindale, Mark, University of Hawaii
McClay, David, Duke University
Ronshaugen, Matthew, University of Manchester
Rothman, Joel, University of California, Santa Barbara
Sanchez, Alejandro, University of Utah School of Medicine
Seaver, Elaine, University of Hawaii
Sherwood, David, Duke University
Trainor, Paul, Stowers Institute for Medical Research
Wallingford, John, University of Texas at Austin
Zeller, Robert, San Diego State University

**LECTURERS**
Appel, Bruce, University of Colorado Denver
Behringer, Richard, MD Anderson Cancer Center
Berg, Celeste, University of Washington
Crabtree, Gerald, Stanford University
Lecuit, Thomas, Centre National de la Recherche Scientifique
Maddox, Amy, University of Montreal
Prince, Victoria, University of Chicago
Rossant, Janet, The Hospital for Sick Children
Shapiro, Michael, University of Utah
Sussel, Lori, Columbia University
Swalla, Billie, University of Washington

**TEACHING ASSISTANTS**
Barlow, Amanda, Stowers Institute for Medical Research
Bertocchini, Federica, University College London
Bhattacharya, Dipankan, Yale University
Browne, William, University of Miami
Chang, Chenbel, University of Alabama at Birmingham
Croce, Jennifer, Centre National de la Recherche Scientifique
Daggett, Dave, University of Connecticut
Dubuis, Julien, Princeton University
Fairclough, Stephen, University of California, Berkeley
Gerhold, Abigail, University of California, Berkeley
Grande, Maria Cristina, Universidad Autonoma de Madrid
Gueldelhoefer, Otto, University of Utah
Hafezi, Yassi, University of California, Berkeley
Hagedorn, Elliott, Duke University
Iulianella, Angelo, Dalhousie University
Kaltenbach, Stacy, Duke University
Kucenas, Sarah, University of Virginia
Linn, Stephanie, University of Michigan
<table>
<thead>
<tr>
<th>COURSE ASSISTANTS</th>
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<td>Delagnes, Elise, University of California, Berkeley</td>
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<td>Dinwiddie, April, Yale University</td>
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<tr>
<td>Rollins, Hannah, University of California, Berkeley</td>
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<th>STUDENTS</th>
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<tr>
<td>Bagherie-Lachidan, Mazdak, Mount Sinai Hospital</td>
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<td>Bickley, Sorrel, The National Institute for Medical Research</td>
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<td>Bonilla, Sylvia, Purdue University</td>
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<td>Cao, Xinwei, St. Jude Children's Research Hospital</td>
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<td>Carag Krieger, Christine, University of Pennsylvania</td>
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<td>Castillo, Hozana, Sao Paulo University</td>
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<td>Chung, Mei-I, University of Texas at Austin</td>
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<td>Clanton, Joshua, Vanderbilt University</td>
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<td>Denker, Elsa, UniResearch, University of Bergen</td>
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<td>Elliott, Sarah, University of Utah</td>
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<td>Franz, Anna, Sir William Dunn School of Pathology</td>
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<td>Grosse, Ann, University of Michigan</td>
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<td>Hiebert, Laurel, University of Oregon</td>
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<td>Hohagen, Jennifer, Georg-August-University of Goettingen</td>
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<td>Kingsley, Evan, Harvard University</td>
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<td>Konopova, Barbora, University of Cambridge</td>
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<td>Liu, Qinwen, University of Maryland at College Park</td>
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<td>Merico, Valeria, University of Pavia</td>
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<td>O'Connor, Amber, University of Alabama at Birmingham</td>
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<td>Powell, Davalyn, University of Colorado Denver</td>
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<td>Soukup, Vladimir, Charles University</td>
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<td>Staller, Max, Harvard Medical School</td>
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<td>Tarver, James, University of Bristol</td>
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<td>Ueda, Nobuo, University of Queensland</td>
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</table>
SUMMER COURSES:

Biology of Parasitism
Embryology
Frontiers in Reproduction
Microbial Diversity
Neurobiology
Neural Systems & Behavior
Physiology

SPECIAL TOPICS:

Analytical & Quantitative Light Microscopy
Biology of the Inner Ear
BioMedical Informatics I
BioMedical Informatics II
Frontiers in Stem Cells & Regeneration
Fundamental Issues in Vision Research
Gene Regulatory Networks
Methods in Computational Neuroscience
Molecular Biology of Aging
Molecular Mycology
Neuroinformatics
SPINES
Workshop on Molecular Evolution
Zebrafish Course

OTHER PROGRAMS:

Brown-MBL Program

Frontiers in Reproduction
May 1 – June 13, 2010

COURSE DIRECTORS
Ascoli, Mario, The University of Iowa
Florman, Harvey, University of Massachusetts Medical School
Heckert, Leslie, University of Kansas Medical Center
Sutherland, Ann, University of Virginia

FACULTY
Albertini, David, University of Kansas Medical Center
Broaddus, Russell, MD Anderson Cancer Center
Brown, Jackson, University of Birmingham
Camper, Sally, University of Michigan
Cherry, Jonathan, N/A
Cohen, Paula, Cornell University
Cooke, Paul, University of Illinois
DeMayo, Francesco, Baylor College of Medicine
Dobrinski, Ina, University of Calgary
Dominko, Tanja, Worcester Polytechnic Institute
Fazleabas, Asgi, Michigan State University
Fissore, Rafael, University of Massachusetts
Handel, Mary Ann, The Jackson Laboratory
Hinton, Barry, University of Virginia
Jaffe, Laurinda, University of Connecticut Health Center
Johnson, Greg, Texas A&M University
Keri, Ruth, Case Western Reserve University
Lange, Carol, University of Minnesota
Matzuk, Martin, Baylor College of Medicine
McClure, Michael, Environmental Protection Agency
Overstrom, Eric, Worcester Polytechnic Institute
Page, Ray, Worcester Polytechnic Institute
Petroff, Margaret, University of Kansas Medical Center
Rando, Oliver, University of Massachusetts Medical School
Redmer, Dale, North Dakota State University
Reijo Pera, Renee, Stanford University
Reynolds, Lawrence, North Dakota State University
Schatten, Gerald, Pittsburgh Development Center
Schultz, Richard, University of Pennsylvania
Spencer, Thomas, Texas A&M University
Stein, Paula, University of Pennsylvania
Sutton, Keith, University of Massachusetts Medical School
Vacquier, Victor, University of California, San Diego
Yao, Humphrey, University of Illinois

LECTURERS
Conti, Marco, University of California, San Francisco
Guillette, Louis, University of Florida
Hames, Stephen, University of Rochester Medical Center
Kaiser, Ursula, Brigham and Women's Hospital
Korach, Kenneth, NIH / National Institute of Environmental Health Sciences
Levine, Jon, Northwestern University
Reddi, Prabhakara, University of Virginia
Seminara, Stephanie, Massachusetts General Hospital
Tevosian, Sergei, Dartmouth College

TEACHING ASSISTANTS
Afshar, Yalda, University of Illinois at Chicago
Agbor, Valentine, University of Kansas Medical Center
Andric, Nebojsa, The University of Iowa
Barrett, Susan, Northwestern University
Borowicz, Pawel, North Dakota State University
Semester in Environmental Science
Logan Science Journalism Program
NASA Planetary Biology Internship Program

Brown, Sara, N/A
Carroll, David, Florida Institute of Technology
Dressing, Gwen, University of Minnesota
Duncan, Francesca, Northwestern University
Gonzalez, Isabel, University of Virginia
Huang, Chen-Che, University of Illinois
Jungnickel, Melissa, University of Massachusetts Medical School
Lee, Hoi Chang, University of Massachusetts, Amherst
Malcuit, Chris, Worcester Polytechnic Institute
McDonald, Emily, University of Kansas Medical Center
Norris, Rachael, University of Connecticut Health Center
Perchellet, Antoine, University of Kansas Medical Center
Pires, Eusebio, University of Virginia
Ratzan, William, University of Connecticut
Rodriguez Sosa, Jose, University of Calgary
Runft, Linda, Amgen Inc.
Slusser, Joyce, University of Kansas Medical Center
Wakai, Takuya, University of Massachusetts, Amherst
Wang, Jie, Baylor College of Medicine
Zhang, Ruina, Baylor College of Medicine

COURSE COORDINATORS
Dille, Elizabeth, University of Kansas Medical Center
Mebane, Dorianne, Marine Biological Laboratory
Perez, Gloria, Michigan State University

COURSE ASSISTANT
Galanis, Allison, Bridgewater State College

STUDENTS
Amaral, Sandra, University of Coimbra
Care, Alison, University of Adelaide
Evans, Jemma, Prince Henry's Institute
Fernandez, Marina, University of California, San Diego
Galdones, Eugene, Northwestern University
Garovic, Vesna, Mayo Clinic
Goyal, Ravi, Loma Linda University
Jimenez, Patricia, Washington University in St. Louis
Joshi, Niraj, The M S University of Baroda
Kong, Betty, Northwestern University
Kristensen, Stine Gry, University Hospital of Copenhagen
Lorenzon, Aline, University of Sao Paulo
Lowther, Katie, University of Connecticut Health Center
Nabeshima, Hiroshi, Tohoku University Hospital
Purcell, Scott, Washington University in St. Louis
Sokalska, Anna, University of California, Davis
Microbial Diversity
June 12 – July 29, 2010

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

FACULTY
Croal, Laura, Massachusetts Institute of Technology
Hugenholtz, Phil, DOE Joint Genome Institute
Metcalf, William, University of Illinois
Orphan, Victoria, California Institute of Technology
Overmann, Joerg, International Leibniz Research School
Thauer, Rolf, Max Planck Institute
Wolfe, Ralph, University of Illinois-Urbana Champaign

LECTURERS
Angenent, Lars, Cornell University
Baross, John, University of Washington
Breznak, John, Michigan State University
Chisholm, Penny, Massachusetts Institute of Technology
DeLong, Edward, Massachusetts Institute of Technology
Greenberg, Peter, University of Washington
Harwood, Caroline, University of Washington
Haselkorn, Robert, University of Chicago
He, Shaomei, U.S. Department of Energy
Huber, Julie, Marine Biological Laboratory
Katz, Laura, Smith College
Kolter, Roberto, Harvard Medical School
Kuenen, J. Gijs, Delft University of Technology
Kyripides, Nikos, DOE Joint Genome Institute
Leadbetter, Jared, California Institute of Technology
Ley, Ruth, Cornell University
McFall-Ngai, Margaret, University of Wisconsin-Madison
Methne, Barbara, J Craig Venter Institute
Nealson, Ken, University of Southern California
Pace, Norman, University of Colorado
Polz, Martin, Massachusetts Institute of Technology
Rocap, Gabrielle, University of Washington
Ruby, Edward, University of Wisconsin-Madison
Sogin, Mitchell, Marine Biological Laboratory
Sorensen, Ketil, Danish Technological Institute
Sun, Shulei, University of California, San Diego
Suttle, Curtis, University of British Columbia
Zehr, Jonathan, University of California, Santa Cruz

TEACHING ASSISTANTS
Fullerton, Heather, Cornell University
Kulkarni, Gargi, University of Illinois
Moraru, Cristina, Max Planck Institute for Marine Microbiology
Pepe-Ranney, Chuck, Colorado School of Mines
Price-Whelan, Alexa, Massachusetts Institute of Technology
Rowe, Annette, Cornell University

COURSE COORDINATOR
Ward, Rebekah, The Atlanta School

COURSE ASSISTANTS
S/tier, Killian, N/A

STUDENTS
Campbell, Kate, U.S. Geological Survey
| Semester in Environmental Science                      | Hall, Edward, University of Vienna |
| Loga Science Journalism Program                        | Henriksen, James, Idaho National Laboratory |
| NASA Planetary Biology Internship Program              | Humphrey, Parris, University of Arizona |
|                                                       | Irizarry, Ivelisse, Universidad del Turabo |
|                                                       | Jaekel, Ulrike, Max Planck Institute for Marine Microbiology |
|                                                       | Kelly, Libusha, Massachusetts Institute of Technology |
|                                                       | Li, Meng, The University of Hong Kong |
|                                                       | Ling, Alison, University of Colorado, Boulder |
|                                                       | Melton, Emily, Eberhard-Karls-Universitat Tubingen |
|                                                       | Meredith, Laura, Massachusetts Institute of Technology |
|                                                       | Mondo, Stephen, Cornell University |
|                                                       | Pavissich, Juan, University of Notre Dame |
|                                                       | Sharon, Gil, Tel Aviv University |
|                                                       | Singer, Esther, University of Southern California |
|                                                       | Wang, Harris, Harvard University |
|                                                       | Wilbanks, Elizabeth, University of California, Davis |
|                                                       | Williams, David, University of Connecticut |
|                                                       | Xu, Yan, Princeton University |
Neurobiology
June 5 - August 8, 2010

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
Barr, Maureen, Rutgers University
Bautista, Diana, University of California, Berkeley
Buchanan, JoAnn, Stanford University
Callaway, Ed, The Salk Institute
Chisholm, Andrew, University of California, San Diego
Commons, Kathryn, Children's Hospital / Harvard Medical School
Dalva, Matthew, University of Pennsylvania
DeGiorgis, Joseph, Providence College
Diaz, Elva, University of California, Davis
Dickinson, Michael, California Institute of Technology
Doetsch, Fiona, Columbia University
Eaton, Benjamin, University of 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
Llano, Isabel, Centre National de la Recherche Scientifique
Marti, Alain, Centre National de la Recherche Scientifique
McCleskey, Ed, Howard Hughes Medical Institute
Micheva, Kristina, Stanford University
Misgeld, Thomas, Technical University Munich
Ruthazer, Edward, McGill University
Sack, Jon, Protein Research
Scheiffele, Peter, Biozentrum University Basel
Schweizer, Felix, University of California, Los Angeles
Smith, Stephen, Stanford University School of Medicine
Washbourne, Philip, University of Oregon
Zuo, Yi, University of California, Santa Cruz

LECTURERS
Bean, Bruce, Harvard Medical School
Brzustowicz, Linda, Rutgers University
Chisholm, Andrew, University of California, San Diego
Greenberg, Michael, Harvard Medical School
Harris, Kristen, University of Texas at Austin
Kramer, Richard, University of California, Berkeley
Lichtman, Jeff, Harvard University
Llinas, Rodolfo, New York University Medical School
MacKinnon, Roderick, The Rockefeller University / Howard Hughes Medical Institute
Regehr, Wade, Harvard Medical School
Ryan, Timothy, Weill Cornell Medical College
Sanes, Joshua, Harvard University
Speca, David, University of California, Davis
Trachtenberg, Joshua, University of California, Los Angeles
Trimmer, James, University of California, Davis
Trussell, Larry, Oregon Health & Science University
Vetter, Monica, University of Utah

TEACHING ASSISTANTS
Barisone, Gustavo, University of California, Davis, School of Medicine
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<th>Semester in Environmental Science</th>
<th>Baudouin, Stephane, Biozentrum, University of Basel</th>
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<td>Logan Science Journalism Program</td>
<td>Bouhous, Brice, L'Universite Paris Descartes</td>
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<td>Busse, Brad, Stanford University</td>
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<td>Soiza-Reilly, Mariano, Children's Hospital Boston</td>
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<td>Witte, Harald, Biozentrum, University of Basel</td>
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<td>COURSE ASSISTANTS</td>
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<td>Correia, Liann, Washington and Jefferson College</td>
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<td>Gilmore, Anthony, University of California, Santa Cruz</td>
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<td>Vale, Christopher, Marine Biological Laboratory</td>
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<td>STUDENTS</td>
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<td>Angueyra, Juan, University of Washington</td>
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<td>Bang, Sun Jung, Children's Hospital Boston / Harvard Medical School</td>
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<td>Betke, Katherine, Vanderbilt University Medical Center</td>
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<td>Dick, Lindsay, The Rockefeller University</td>
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<td>Kohl, Johannes, MRC Lab of Molecular Biology</td>
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<td>Langworthy, Melissa, University of Colorado Denver</td>
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<td>Lee, Young II, University of Texas at Austin</td>
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<td>Mullins, Olivia, University of Virginia</td>
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<td>Peng, Anthony, Stanford University</td>
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<td>Qiu, Rong, Chinese Academy of Sciences</td>
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<td>Rao, Yanhua, Duke University</td>
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<td>Zwart, Maarten, University of Cambridge</td>
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</tbody>
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Neural Systems & Behavior
June 5 – August 1, 2010

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

FACULTY
Angstadt, James, Siena College
Bhandawat, Vikas, Duke University
Brecht, Hans, BCCN, Humboldt University Berlin
Bucher, Dirk, University of Florida
Calabrese, Ronald, Emory University
Calin-Jageman, Robert, Dominican University
Chacron, Maurice, McGill University
Coleman, Melissa, Claremont Colleges
Dickinson, Michael, California Institute of Technology
Faumont, Serge, University of Oregon
Fenton, Andre, New York University
Franklin, Eric, The Johns Hopkins University
Freeman, John, The University of Iowa
French, Kathy, University of California, San Diego
Golowasch, Jorge, New Jersey Institute of Technology
Hart, Anne, Brown University
Kentros, Clifford, University of Oregon
Konishi, Masakazu, California Institute of Technology
Kozhevnikov, Alexay, Pennsylvania State University
Kristan, William, University of California, San Diego
Maimon, Gaby, California Institute of Technology
Masino, Mark, University of Minnesota
Mauk, Michael, University of Texas at Austin
Norris, Brian, California State University
Rankin, Catharine, University of British Columbia
Ritt, Jason, Boston University
Sirotkin, Howard, Stony Brook University
Stein, Wolfgang, Ulm University
Svoboda, Karel, Janelia Farm Research Campus, Howard Hughes Medical Institute
Szczupak, Lidia, Universidad de Buenos Aires
Taube, Jeffrey, Dartmouth College
Todd, Krista, University of California, San Diego
Wagenaar, Daniel, California Institute of Technology
Wenning-Erxleben, Angela, Emory University

LECTURERS
Dvorak, Dino, SUNY Downstate
Eisthen, Heather, Michigan State University
Gallant, Jack, University of California, Berkeley
Krubitzer, Leah, University of California, Davis
Raymond, Jennifer, Stanford University
Robinson, Gene, University of Illinois at Urbana-Champaign
Shah, Manan, SUNY Downstate Medical Center

TEACHING ASSISTANTS
Anderson, Tatiana, University of Minnesota
Davis, Tobin, University of Texas at Austin
Day, Nancy, University of Minnesota, Minneapolis
DeBlander, Leah, University of Oregon
Halverson, Hunter, University of Texas at Austin
Huber, Daniel, Howard Hughes Medical Institute
Knoblich, Ulf, Massachusetts Institute of Technology
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<td>Kok, Fatma</td>
<td>SUNY at Stony Brook</td>
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<td>Langford, Bruce</td>
<td>Pennsylvania State University</td>
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<td>Marsat, Gary</td>
<td>University of Ottawa</td>
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<td>Puhl, Joshua</td>
<td>University of Minnesota</td>
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<td>Rela, Lorena</td>
<td>University of Buenos Aires</td>
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<td>Rowland, David</td>
<td>University of Oregon</td>
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<td>Singh, Komudi</td>
<td>Brown University</td>
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<td>Skowronsiki-Lutz, Ethan</td>
<td>Massachusetts Institute of Technology</td>
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<tr>
<td>Vonderschen, Katrin</td>
<td>McGill University</td>
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<td>Weir, Peter</td>
<td>California Institute of Technology</td>
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<td>White, Rachel</td>
<td>University of Pennsylvania School of Medicine</td>
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<td>Wright, Terrence</td>
<td>Emory University</td>
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<td>Zhang, Yisi</td>
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<td>Hamid, Arif</td>
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<td>Lewis, Stefanie</td>
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<td>Tamvacakis, Arianna</td>
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<td>Bradley, Keith</td>
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<td>Cazakoff, Brittany</td>
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<td>Jung, Sarah Nicola</td>
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<td>Kathman, Nicholas</td>
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<td>Lazarus, Kerry</td>
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<td>Manella, Laura</td>
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<td>Priesemann, Viola</td>
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<td>Rajaram, Siddharth</td>
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<td>Rosenbaum, Philipp</td>
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<td>Schrode, Katrina</td>
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<td>Sofroniew, Nicholas</td>
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<td>Suver, Marie</td>
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<td>Vasconcelos, Raquel</td>
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Physiology
June 12 - August 1, 2010

COURSE DIRECTORS
Mullins, Dyche, University of California, San Francisco School of Medicine
Waterman, Clare, NIH / National Heart Lung Blood Institute

FACULTY
Danuser, Gaudenz, Harvard Medical School
Davidson, Michael, Florida State University
Fischer, Robert, NIH / National Heart Lung Blood Institute
Fletcher, Daniel, University of California, Berkeley
Gardner, Melissa, Max Planck Institute
Geiger, Benjamin, Weizmann Institute of Science
Huang, Kerwyn, Stanford University
Jaqaman, Khuloud, Harvard Medical School
Khodjakov, Alexey, Wadsworth Center
Lippincott-Schwartz, Jennifer, NIH / National Institute of Child Health and Human Development
Morshall, Wallace, University of California, San Francisco
Meyer, Tobias, Stanford University
Nelson, James, Stanford University
Odde, David, University of Minnesota
Phillips, Rob, California Institute of Technology
Thorn, Kurt, University of California, San Francisco

LECTURERS
Amon, Angelika, Massachusetts Institute of Technology
Austin, Robert, Princeton University
Bement, William, University of Wisconsin-Madison
Bustamante, Carlos, University of California, Berkeley
Cameron, Andrew, California Institute of Technology
Denic, Vladimir, Harvard University
Foster, Kevin, Harvard University
Gardel, Margaret, University of Chicago
Gitai, Zemer, Princeton University
Hahn, Klaus, University of North Carolina
Hershko, Avram, Technion
Kaverina, Irina, Vanderbilt University Medical Center
Matunis, Erika, Johns Hopkins University School of Medicine
Ranganathan, Rama, University of Texas Southwestern Medical School
Rapoport, Tom, Harvard Medical School / Howard Hughes Medical Institute
Rodionov, Vladimir, University of Connecticut Health Center
Sheetz, Michael, Columbia University of New York
Taunton, Jack, University of California, San Francisco
Theriot, Julie, Stanford University
Vale, Ron, University of California, San Francisco
Wingreen, Ned, Princeton University

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Aguet, Francois, Harvard Medical School
Azimzadeh, Juliette, University of California, San Francisco
Besser, Achim, Harvard Medical School
Borghi, Nicolas, Stanford University
Brewster, Robert, California Institute of Technology
Castle, Brian, University of Minnesota
Chan, Mark, University of California, San Francisco
Daniels, Brian, National Institutes of Health
Garca, Hernan, California Institute of Technology
Hammer, John, National Institutes of Health
Hansen, Scott, University of California, San Francisco
Ishikawa, Hiro, University of California, San Francisco
Kanchanawong, Pakorn, National Institutes of Health

### Semester in Environmental Science
- Kwiatkowski, Adam, Stanford University
- Lee, Heun, California Institute of Technology
- Lin, Keng-hui, Academia Sinica
- Lomakin, Alexis, Harvard University
- Loncarek, Jadranka, Wadsworth Center
- Magidson, Valentin, Wadsworth Center
- Nunez, Daniel, Harvard Medical School
- Plotnikov, Sergey, NIH / National Heart Lung Blood Institute
- Polka, Jessica, University of California, San Francisco
- Rousevell, Ross, University California, Berkeley
- Schmid, Eva, University of California, Berkeley
- Sengupta, Prabuddha, National Institute of Health
- Shin, William, National Institutes of Health
- Sivaramakrishnan, Sivaraj, Stanford University
- Stachowiak, Jeanne, Sandia National Laboratories
- Tsai, Feng-Chiao, Stanford University School of Medicine
- Ursell, Tristan, Stanford University
- Van Valen, David, California Institute of Technology
- Wiggins, Paul, Whitehead Institute
- Wilson, Korey, National High Magnetic Field Laboratory
- Woolman, Roy, Stanford University
- Wu, Xufeng, National Institutes of Health

### Logan Science Journalism Program

### NASA Planetary Biology Internship Program
- Kwiatkowski, Adam, Stanford University
- Lee, Heun, California Institute of Technology
- Lin, Keng-hui, Academia Sinica
- Lomakin, Alexis, Harvard University
- Loncarek, Jadranka, Wadsworth Center
- Magidson, Valentin, Wadsworth Center
- Nunez, Daniel, Harvard Medical School
- Plotnikov, Sergey, NIH / National Heart Lung Blood Institute
- Polka, Jessica, University of California, San Francisco
- Rousevell, Ross, University California, Berkeley
- Schmid, Eva, University of California, Berkeley
- Sengupta, Prabuddha, National Institute of Health
- Shin, William, National Institutes of Health
- Sivaramakrishnan, Sivaraj, Stanford University
- Stachowiak, Jeanne, Sandia National Laboratories
- Tsai, Feng-Chiao, Stanford University School of Medicine
- Ursell, Tristan, Stanford University
- Van Valen, David, California Institute of Technology
- Wiggins, Paul, Whitehead Institute
- Wilson, Korey, National High Magnetic Field Laboratory
- Woolman, Roy, Stanford University
- Wu, Xufeng, National Institutes of Health

#### COURSE ASSISTANTS
- Keyes, Madeline, Wheaton College
- Manguso, Robert, Wheaton College
- Sedney, Luke, N/A

#### STUDENTS
- Alvarado, Jose, FOM-Instituut AMOLF
- Anupama H.L., National Centre for Biological Sciences
- Barlan, Kari, Northwestern University
- Bienkowska, Dominika, Research Institute of Molecular Pathology
- Bisaria, Namita, Stanford University
- Camarillo, David, Hansen Medical, Inc.
- Cristo, Ines, Instituto Gulbenkian de Ciencia
- DeBerg, Hannah, University of Illinois-Urbana Champaign
- Eun, Ye Jin, University of Wisconsin-Madison
- Fernandes, Viliawan, McGill University
- Good, Matthew, University of California, San Francisco
- Jones, Daniel, California Institute of Technology
- Lin, Yihan, University of Chicago
- Lindeboom, Jelmer, Wageningen University
- Manor, Uri, National Institutes of Health
- Mchedlishvili, Nunu, Swiss Federal Institute of Technology Zurich
- Montenegro Gouveia, Susana, Erasmus Medical Center
- Muenster, Stefan, Max Planck Institute for the Science of Light
- Nowotarski, Stephanie, University of North Carolina at Chapel Hill
- Pierce, Nathan, California Institute of Technology
- Robinson-Mosher, Avi, Stanford University
- Silkworth, William, Virginia Polytechnic Institute & State University
- Sosa, Ramiro, University of Texas at Austin
- Vafabakhsh, Reza, University of Illinois-Urbana Champaign
- Vogel, Sven, Dresden University of Technology
- Weaver, Lesley, Indiana University-Bloomington
- Zhu, Xuejun, Peking University
Analytical and Quantitative Light Microscopy
May 5 – May 14, 2010

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

FACULTY
Cameron, Lisa, Dana Farber Cancer Institute
Cardullo, Richard, University of California, Riverside
Dempsey, Graham, Harvard University
Heintzmann, Rainer, Institute of Photonic Technology
Hill, Emma, The Rockefeller University Press
Jaqaman, Khuloud, Harvard Medical School
Moongaw, Butch, Hamamatsu Photonics
Murray, John, University of Pennsylvania
Mycek, Mary-Ann, University of Michigan
Salmon, Edward, University of North Carolina at Chapel Hill
Shaw, Sidney, Indiana University
Vaughan, Joshua, Harvard University
Waters, Jennifer, Harvard Medical School

LECTURERS
Inoué, Shinya, Marine Biological Laboratory
Douthwright, Stephen, University of Massachusetts Medical School
Krzywicka-Racka, Anna, University of Massachusetts Medical School

COURSE COORDINATOR
Salmon, Wendy, Harvard Medical School

STUDENTS
Armstrong, Brian, Beckman Research Institute, City of Hope
Aubyn, Deborah, Cancer Research UK London
Bagonis, Maria, Harvard University
Baughman, Jennifer, Harvard Medical School
Bellido Martin, Dolores, Beth Israel Deaconess Medical Center
Canman, Julie, Columbia University
Chen, Di, Buck Institute for Age Research
Clausen, Mathias, University of Southern Denmark
Cole, Nelson, NIH / National Heart, Lung, and Blood Institute
Dahlseid, Jeffrey, Gustavus Adolphus College
Dreier, Jes, University of Southern Denmark
Dumitriu, Dani, Mount Sinai School of Medicine
Ferguson, Angelica, Ecole Polytechnique Federale de Lausanne
Ferrand, Alexia, University of Dundee
Fleming, Robert, The Roslin Institute
Guse, Annika, Stanford University School of Medicine
Hwang, Yu-Chen, University of California, Santa Cruz
Kirchmaier, Ann, Purdue University
Laughlin, Ryan, Horiba Scientific
Loo, Li Shen, Institute of Molecular and Cell Biology
Mateo, Zenon, Texas A&M University
Morse, Philo, Paricle Sciences Incorporated
Peck, Sebastian, University of California, San Francisco
Rosenberg, Joshua, Boston College
Salipante, Paul, Dartmouth College Thayer School of Engineering
Sousa, Aliscia, National Institutes of Health
Sousa, Frederico, Federal University of Paraiba
Sporsheim, Bjornar, Norwegian University of Science and Technology
Talisman, Tijana, NIH / National Institute of Child Health and Human Development
<table>
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<tr>
<th>Course Lists</th>
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<tr>
<td>Semester in Environmental Science</td>
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<td>Logan Science Journalism Program</td>
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<tr>
<td>NASA Planetary Biology Internship Program</td>
</tr>
</tbody>
</table>

- Titus, Margaret, University of Minnesota
- Welburn, Julie, Whitehead Institute for Biomedical Research
- Winkelbauer, Marlene, University of Alabama at Birmingham
- Yan, Tong, National University of Singapore
Biology of the Inner Ear

The Biology of the Inner Ear course did not run in 2010. The next course will run in 2011.
Semester in Environmental Science
Logan Science Journalism Program
NASA Planetary Biology Internship Program
SUMMER COURSES:

- Biology of Parasitism
- Embryology
- Frontiers in Reproduction
- Microbial Diversity
- Neurobiology
- Neural Systems & Behavior
- Physiology

SPECIAL TOPICS:

- Analytical & Quantitative Light Microscopy
- Biology of the Inner Ear
- BioMedical Informatics I
- BioMedical Informatics II
- Frontiers in Stem Cells & Regeneration
- Fundamental Issues in Vision Research
- Gene Regulatory Networks
- Methods in Computational Neuroscience
- Molecular Biology of Aging
- Molecular Mycology
- Neuroinformatics
- SPINES
- Workshop on Molecular Evolution
- Zebrafish Course

OTHER PROGRAMS:

- Brown-MBL Program

BioMedical Informatics I
May 30 – June 6, 2010

COURSE DIRECTORS
Cimino, James, National Institutes of Health
Mitchell, Joyce, University of Utah

FACULTY
Ackerman, Michael, National Library of Medicine
Ash, Joan, Oregon Health & Science University
Canese, Kathi, National Library of Medicine
Friedman, Charles, Department of Health and Human Services
Hammond, William, Duke University
Johnson, Kevin, Vanderbilt University
Kingsland, Lawrence, National Library of Medicine (Ret.)
Lindberg, Donald, National Library of Medicine
McCray, Alex, Harvard Medical School
Phillips, Steven, National Library of Medicine
Rocha, Roberto, Partners HealthCare System, Inc.
Staes, Catherine, University of Utah

TEACHING ASSISTANT
Pakiam, Jennifer, National Library of Medicine

STUDENTS
Aas, Endre, Innlandet Hospital Trust
Araujo, Marco, InterMeds & Advanced Pain Management
Badman, Suzanne, Syracuse University
Blevins, Amy, East Carolina University
Bock, Kevin, North Shore Long Island Jewish Health System
Bushhouse, Ellie, University of Florida
Conigliaro, Joseph, University of Kentucky
Cowger, John, Lake Region State College
Dickson, Lynette, University of North Dakota School of Medicine
Diop, Angela, Unity Health Care, Inc.
Gavino, Alex, University of the Philippines Manila
Henderson, Margaret, Virginia Commonwealth University
Howse, David, University of Arizona
Jewell, Sarah, Memorial Sloan Kettering Cancer Center
Johnson, Keisha, Health Resources and Services Administration / Office of Health Information Technology
Knapp, Maureen, Louisiana State University Health Sciences Center
Knapp, Philip, Boston University Medical Center
Kuebler, Frances, East Boston Neighborhood Health Center
Larsen, Kevin, Hennepin County Medical Center
Littleford, Judith, University of Manitoba
MacEachern, Mark, University of Michigan
Marvel, Elizabeth, Marcus Autism Center
Molanphy, Emily, New York University
Munyaburanga, Christian, Rwanda Development Board, Information Technology
Parker-Johnson, KiTani, Xavier University of Louisiana
Perijoc, Mihaela, Inpatient Physician Associates
Shereff, Denise, University of South Florida College of Medicine
Steinberg, Ryan, Stanford University
Ullmann, Daniel, Pacific University of Oregon
Walvoord, Charlene, Louisiana State University Health Sciences Center
SUMMER COURSES:

- Biology of Parasitism
- Embryology
- Frontiers in Reproduction
- Microbial Diversity
- Neurobiology
- Neural Systems & Behavior
- Physiology

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- Analytical & Quantitative Light Microscopy
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- Gene Regulatory Networks
- Methods in Computational Neuroscience
- Molecular Biology of Aging
- Molecular Mycology
- Neuroinformatics
- SPINES
- Workshop on Molecular Evolution
- Zebrafish Course

OTHER PROGRAMS:

- Brown-MBL Program
Semester in Environmental Science
Logan Science Journalism Program
NASA Planetary Biology Internship Program
Frontiers in Stem Cells and Regeneration
October 3 – October 9, 2010

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

FACULTY
Bely, Alexa, University of Maryland, College Park
Castro, Carlos, University of Pittsburgh
Dobrinski, Ina, University of Calgary
Easley, Charles, University of Pittsburgh
Gardiner, David, University of California, Irvine
Jeffery, William, University of Maryland, College Park
Maden, Malcolm, University of Florida
Mitalipova, Maya, Massachusetts Institute of Technology
Murray, Thomas, The Hastings Center
Nagano, Makoto, McGill University
Orwig, Kyle, University of Pittsburgh
Park, In-Hyun, Yale University
Pruszak, Jan, University of Freiburg
Shay, Jerry, University of Texas Southwestern Medical Center
Simerly, Calvin, University of Pittsburgh

LECTURERS
Carlson, Bruce, University of Michigan
Meshorer, Eran, The Hebrew University of Jerusalem
Ouyang, Yingshi, Stanford University

TEACHING ASSISTANTS
Ben-Yehudah, Ahmi, University of Pittsburgh
Biran, Alva, The Hebrew University of Jerusalem
Gassei, Kathrin, University of Pittsburgh
Goricki, Spela, University of Maryland, College Park
Hysolli, Eriona, Yale University
Lee, Jangwoo, University of California, Irvine
Lin, Chih-Cheng, Magee Women’s Research Institute
McFarland, David, Magee Women’s Research Institute
Redinger, Carrie, Magee Women’s Research Institute
Sukhwani, Meena, Magee Women’s Research Institute
Zattara, Eduardo, University of Maryland, College Park

COURSE COORDINATORS
Carlisle, Diane, University of Pittsburgh
Mebane, Dorianne, Marine Biological Laboratory
Palermo Lauff, Angela, Pittsburgh Development Center

STUDENTS
Akinloye, Oluyemi, Cape Peninsula University of Technology
Amar, Lahouari, Lund University
Baez-Vega, Perla, Ponce School of Medicine
Cheung, Hoi-Hung, NIH / National Institute of Child Health and Human Development
Colon Diaz, Maricarmen, Ponce School of Medicine
Hirsch, Calley, MD Anderson Cancer Center
Kalisz, Mark, Hagedorn Research Institute
Kelly, Victoria, University of Michigan / University of Pittsburgh
Lee, Hyung-yul, U.S. Food and Drug Administration
Lopes, Mariana, Federal University of Rio de Janeiro
Nakanoh, Shota, Kyoto University
Price, Gavrielle, Massachusetts General Hospital / Harvard Medical School
Sturme, Roger, Hull York Medical School
Telugu, Bhanu Prakash, University of Missouri, Columbia
Semester in Environmental Science
Logan Science Journalism Program
NASA Planetary Biology Internship Program

Wieser, Friedrich, Emory University School of Medicine
Zhai, Yuxin, University of Texas / MD Anderson Cancer Center
**Fundamental Issues in Vision Research**  
**August 8 – August 21, 2010**

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

**FACULTY**  
Barres, Ben, Stanford University School of Medicine  
Beebe, David, Washington University  
Berson, Eliot, Harvard Medical School  
Bok, Dean, University of California, Los Angeles  
Born, Richard, Harvard Medical School  
Burns, Marie, University of California, Davis  
Colley, Nansi, University of Wisconsin-Madison  
Deretic, Dusanka, University of New Mexico  
Dowling, John, Harvard University  
Gehring, Walter, University of Basel  
Gordon, Marion, Ernest Mario School of Pharmacy, Rutgers University  
Gross, Alecia, University of Alabama at Birmingham  
Liberman, Ellen, NIH / National Eye Institute  
Ljubimov, Alexander, Cedars-Sinai Medical Center  
Papermaster, David, University of Connecticut Health Center  
Peachey, Neal, Cleveland Clinic Foundation  
Raviola, Elio, Harvard Medical School  
Raymond, Pamela, University of Michigan  
Sieving, Paul, National Institutes of Health  
Strettoi, Enrica, Italian National Research Council  
Sugrue, Stephen, University of Florida  
Summers Rada, Jody, University of Oklahoma Health Sciences  
Wiggs, Janey, Harvard Medical School

**LECTURERS**  
Agarwal, Neeraj, NIH / National Eye Institute  
DAmore, Patricia, Schepens Eye Research Institute / Harvard Medical School  
Funderburgh, James, University of Pittsburgh  
John, Simon, The Jackson Laboratory  
LaVail, Jennifer, University of California, San Francisco  
Moore, Tirin, Stanford University  
Niederkorn, Jerry, University of Texas Southwestern Medical Center  
Nishina, Patsy, The Jackson Laboratory  
Reh, Thomas, University of Washington

**TEACHING ASSISTANT**  
Samuels, Ivy, Louis Stokes Cleveland VA Medical Center

**COURSE COORDINATOR**  
Anastassov, Ivan, Hunter College, CUNY

**STUDENTS**  
Agosto, Melina, Baylor College of Medicine  
Alekseev, Oleg, Drexel University College of Medicine  
Chucair-Elliott, Ana, Oklahoma University Health Sciences Center  
Cunnusamy, Krhrishen, University of Texas Southwestern Medical Center at Dallas  
Dubis, Adam, Medical College of Wisconsin  
Enke, Ray, The Johns Hopkins University  
Garcia, Mariana, University of California, Berkeley  
Griswold, Shannon, Rice University  
Heavner, Whitney, University of North Carolina at Chapel Hill  
Hwang, Christopher, Emory University  
Mamuya, Fahmy, University of Delaware  
Munguba, Gustavo, University of Miami Miller School of Medicine
| Semester in Environmental Science | Mustafi, Debarshi, Case Western Reserve University |
| Logan Science Journalism Program | Park, Paul, Case Western Reserve University |
| NASA Planetary Biology Internship Program | Peyer, Suzanne, University of Wisconsin-Madison |
| | Purgert, Robert, Washington University in St. Louis |
| | Qu, Juan, Massachusetts Eye and Ear Infirmary |
| | Reish, Nicholas, University of Alabama at Birmingham |
| | Sumida, Grant, University of Arizona |
| | Tam, Johnny, University of California, Berkeley |
| | Tran, Nicholas, Washington University in Saint Louis |
| | Vogt, Nina, New York University |
| | Walker, Robert, University of Tennessee Health Science Center |
| | Wang, Lingyan, Mount Sinai School of Medicine |
Gene Regulatory Networks
October 12 – October 23, 2010

COURSE DIRECTORS
Davidson, Eric, California Institute of Technology
McClay, David, Duke University

FACULTY
Bolouri, Hamid, California Institute of Technology
Bronner-Fraser, Marianne, California Institute of Technology
Christiaen, Lionel, New York University
Lander, Arthur, University of California, Irvine
Longabaugh, William, Institute for Systems Biology
Peter, Isabelle, California Institute of Technology
Rothenberg, Ellen, California Institute of Technology
Small, Stephen, New York University

COURSE ASSISTANT
Warner, Jacob, Duke University

STUDENTS
Behra, Martine, University of Puerto Rico School of Medicine
Chen, Jerry, San Diego State University
Dasgupta, Krishnakali, University of Southern California
Farley, Emma, Imperial College
Faure, Emmanuel, California Institute of Technology
Fischer, Antje, EMBL Heidelberg
Gantz, Valentino, University of California, San Diego
Gong, Siew-Ging, University of Toronto
Green, Rebecca, University of Colorado Denver
Hong, Sung-Kook, National Institutes of Health
Hoppler, Stefan, University of Aberdeen
Kozmikova, Iryna, Institute of Molecular Genetics
Martinez, Pedro, Universitat de Barcelona
Prasad, Maneeshi, University of South Dakota
Rhen, Turk, University of North Dakota
Rogers, Katherine, Harvard University
Schroeder, Anthony, University of North Dakota
Streit, Andrea, King's College London
Tulin, Sarah, California Institute of Technology
Wang, Sui, Harvard Medical School / Howard Hughes Medical Institute
Zhang, Liyun, Purdue University
Semester in Environmental Science
Logan Science Journalism Program
NASA Planetary Biology Internship Program
**Methods in Computational Neuroscience**

**August 1 – August 29, 2010**

**COURSE DIRECTORS**
Berry II, Michael, Princeton University  
Fairhall, Adrienne, University of Washington

**FACULTY**
Azeredo da Silveira, Rava, Ecole Normale Superieure  
Baccus, Stephen, Stanford University  
Bialek, William, Princeton University  
Ermentrout, Bard, University of Pittsburgh  
Fiete, Ila, University of Texas at Austin  
Goldman, Mark, University of California, Davis  
Hauser, Michael, University College London  
Kleinfeld, David, University of California, San Diego  
Kopell, Nancy, Boston University  
Marder, Eve, Brandeis University  
Mehta, Mayank, University of California, Los Angeles  
Pillow, Jonathan, University of Texas at Austin  
Schneidman, Elad, Weizmann Institute of Science  
Seung, H. Sebastian, Massachusetts Institute of Technology  
Shadmehr, Reza, The Johns Hopkins University  
Solla, Sara, Northwestern University  
Sompolinsky, Haim, The Hebrew University of Jerusalem  
Svoboda, Karel, Janelia Farm Research Campus, Howard Hughes Medical Institute  
Wen, Quan, Harvard University

**LECTURERS**
Abbott, Larry, Columbia University  
Chklovskii, Dmitri, Howard Hughes Medical Institute  
Denk, Winfried, Max Planck Institute for Medical Research  
Fee, Michale, Massachusetts Institute of Technology  
Johnston, Daniel, University of Texas at Austin  
Kiani, Roozbeh, Stanford University  
Legenstein, Robert, Graz University of Technology  
Martin, Kevan, Institute of Neuroinformatics  
Mel, Bartlett, University of Southern California  
Sejnowski, Terrence, Salk Institute  
Whittington, Miles, Newcastle University  
Wyart, Matthieu, New York University

**TEACHING ASSISTANTS**
Famulare, Michael, University of Washington  
Gjorgieva, Julijana, University of Cambridge  
Lundstrom, Brian, University of Washington  
Marre, Olivier, Princeton University  
Mease, Rebecca, University of Washington  
Tkacik, Gasper, University of Pennsylvania  
Trettel, Sean, University of Washington

**COURSE ASSISTANT**
Liljestrand, Jennelle, Bates College

**STUDENTS**
Albantakis, Larissa, Universitat Pompeu Fabra  
Aranson, Hannah, Washington University in St. Louis  
Chaisangvanthum, Kris, University of California, San Francisco  
Corbett, Elaine, Northwestern University  
Dumitriu, Dani, Mount Sinai School of Medicine  
Gerhard, Felipe, Brain Mind Institute, Ecole Polytechnique Federale de Lausanne  
Jarvis, Sarah, University of Freiburg
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<th>Semester in Environmental Science</th>
<th>Kumar, Ashok, Carnegie Mellon University</th>
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<td>Logan Science Journalism Program</td>
<td>Lajoie, Guillaume, University of Washington</td>
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<td>Lee, Chi-Hon, National Institutes of Health</td>
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<td>Livneh, Uri, Weizmann Institute of Science</td>
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<td>Nunez-Iglesias, Juan, Janelia Farm Research Campus, Howard Hughes Medical Institute</td>
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<td>Otte, Stephani, Salk Institute</td>
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<td>Patino, Gustavo, University of Michigan</td>
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<td>Phoka, Elena, Imperial College London</td>
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<td>Prentice, Jason, University of Pennsylvania</td>
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<td>Reardon, Thomas, Duke University / Howard Hughes Medical Institute</td>
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<td>Roh, Jinsook, Northwestern University</td>
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<td>Rubin, Ran, The Hebrew University of Jerusalem</td>
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<td>Sederberg, Audrey, Princeton University</td>
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<td>Shushruth, S., University of Utah</td>
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<td>Soudry, Daniel, Technion</td>
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<td>Weber, Franz, Max Planck Institute of Neurobiology</td>
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<td>Xing, Dajun, New York University</td>
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</table>
SUMMER COURSES:

- Biology of Parasitism
- Embryology
- Frontiers in Reproduction
- Microbial Diversity
- Neurobiology
- Neural Systems & Behavior
- Physiology

SPECIAL TOPICS:

- Analytical & Quantitative Light Microscopy
- Biology of the Inner Ear
- BioMedical Informatics I
- BioMedical Informatics II
- Frontiers in Stem Cells & Regeneration
- Fundamental Issues in Vision Research
- Gene Regulatory Networks
- Methods in Computational Neuroscience
- Molecular Biology of Aging
- Molecular Mycology
- Neuroinformatics
- SPINES
- Workshop on Molecular Evolution
- Zebrafish Course

OTHER PROGRAMS:

- Brown-MBL Program

Molecular Biology of Aging
July 25 – August 14, 2010

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

FACULTY
Bartke, Andrzej, Southern Illinois University
Church, George, Harvard University
Csiszar, Anna, University of Oklahoma
Morimoto, Richard, Northwestern University
Shore, David, Massachusetts General Hospital / Harvard Medical School
Ungvari, Zoltan, University of Oklahoma Health Science Center
Wright, Woodring, University of Texas Southwestern Medical Center

LECTURERS
Aiken, Judd, University of Alberta
Barzilai, Nir, Albert Einstein College of Medicine
Kaeberlein, Matt, University of Washington
Kapahi, Pankaj, Buck Institute for Age Research
Kennedy, Brian, University of Washington
Meselson, Matthew, Harvard University
Murphy, Coleen, Princeton University
Sinclair, David, Harvard Medical School
Guarente, Lenny, Massachusetts Institute of Technology
Richardson, Arlan, University of Texas Health Science Center at San Antonio

TEACHING ASSISTANT
Sosnowska, Danuta, University of Oklahoma

COURSE ASSISTANT
Liljestrand, Jennelle, Bates College

STUDENTS
Campbell, Courtney, Vanderbilt University Medical Center
Chow, Tracy, University of Texas Southwestern Medical Center
Coe, Miguel, Max Planck Institute
Denzel, Martin, Sanford-Burnham Medical Research Institute
Didier, Elizabeth, Tulane National Primate Research Center
Gelino, Sara, Sanford-Burnham Institute for Medical Research
Herbst, Robert, Boston University
Holmbeck, Marissa, Brown University
Kim, Insil, University of California, Irvine
Kundu, Samrat, Yale University
Lehmann, Gilad, Ben-Gurion University of the Negev
Lin, Amy, Boston University
McQuary, Philip, Sanford-Burnham Medical Research Institute
Methner, Axel, Heinrich-Heine-University
Regmi, Saroj, Dartmouth Medical School
Ridgway, Iain, Bangor University
Roos, Thomas, Stanford University
Takahashi, Rie, Mayo Clinic
Villeda, Saul, Stanford University
Zhang, Yizhe, Harvard University
Semester in Environmental Science
Logan Science Journalism Program
NASA Planetary Biology Internship Program
SUMMER COURSES:
- Biology of Parasitism
- Embryology
- Frontiers in Reproduction
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- Methods in Computational Neuroscience
- Molecular Biology of Aging
- Molecular Mycology
- Neuroinformatics

SPINES
- Workshop on Molecular Evolution
- Zebrafish Course

OTHER PROGRAMS:
- Brown-MBL Program

Molecular Mycology
August 4 – August 20, 2010

COURSE DIRECTORS
- Alspaugh, James, Duke University School of Medicine
- Edwards, John, Harbor UCLA Medical Center
- Hogan, Deborah, Dartmouth Medical School
- Mitchell, Aaron, Carnegie Mellon University

FACULTY
- Cormack, Brendan, The Johns Hopkins University
- Heitman, Joseph, Duke University Medical Center
- Konopka, James, Stony Brook University
- Mylonakis, Eleftherios, Massachusetts General Hospital
- Sheppard, Don, Harbor UCLA Medical Center
- White, Ted, Seattle Biomedical Research Institute

LECTURERS
- Bassilana, Martine, University of Nice, Centre National de la Recherche Scientifique
- Bennett, Richard, Brown University
- Feldmesser, Marta, Albert Einstein College of Medicine
- Goldman, William, University of North Carolina
- Gow, Neil, Aberdeen University
- Nantel, Andre, National Research Council of Canada
- Pirofski, Liise-Anne, Albert Einstein College of Medicine
- Rhodes, Judith, University of Cincinnati

TEACHING ASSISTANTS
- Deveau, Aurelie, Dartmouth Medical School
- Gravelat, Fabrice, McGill University
- Ni, Min, Duke University
- Nichols, Connie, Duke University Medical Center
- Solis, Norma, LA Biomed
- Walker, Louise, University of Aberdeen

COURSE COORDINATORS
- Edwards, Carol, Harbor UCLA Medical Center
- Rafkin, Wendy, Harbor UCLA Medical Center

STUDENTS
- Carlisle, Patricia, University of Texas Health Science Center at San Antonio
- Carmen, John, University of Wisconsin-Madison
- Castillo, Luis, University of Aberdeen
- Desnos-Ollivier, Marie, Institut Pasteur
- Fain, Gregory, Hospital for Sick Children
- Feretzaki, Marianna, Duke University
- Garcia-Rodas, Rocio, National Centre for Microbiology
- Garcia-Solache, Monica, Albert Einstein College of Medicine
- Gilmore, Sarah, University of California, San Francisco
- Grahl, Nora, Montana State University
- Hardison, Sarah, University of Texas at San Antonio
- Lindsey, Jennifer, Brown University
- O'Meara, Teresa, Duke University
- Orta Zavalza, Emmanuel, Instituto Potosino de Investigación Científica y Tecnológica
- Salles Dias, Marcos, São Paulo University
- Srikantha, Deepa, Washington University School of Medicine
- Yano, Junko, LSU Health Sciences Center, New Orleans
- Zekert, Nadine, Karlsruhe Institute of Technology
Semester in Environmental Science
Logan Science Journalism Program
NASA Planetary Biology Internship Program
SUMMER COURSES:

- Biology of Parasitism
- Embryology
- Frontiers in Reproduction
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- Molecular Mycology
- Neuroinformatics

SPINES

- Workshop on Molecular Evolution
- Zebrafish Course

OTHER PROGRAMS:

- Brown-MBL Program

---

**Neuroinformatics**

**August 14 – August 29, 2010**

**COURSE DIRECTORS**

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

**FACULTY**

Ahammad, Parvez, Janelia Farm Research Campus, Howard Hughes Medical Institute
Barbas, Helen, Boston University
Belkin, Mikhail, The Ohio State University
Bernard, Amy, Allen Institute for Brain Science
Bohland, Jason, Boston University
Bohland, Jason, Boston University
Bokil, Hemant, Medameterics LLC
Eden, Uri, Boston University
Havkin, Gregor, Cold Spring Harbor Laboratory
Iyengar, Satish, University of Pittsburgh
Pesaran, Bijan, New York University
Purpura, Keith, Weill Cornell Medical College
Richmond, Barry, DHHS/NIH/NIMH
Rolston, John, Emory University
Sarma, Sridevi, The Johns Hopkins University
Schiff, Nicholas, Weill Cornell Medical College
Sornborger, Andrew, University of Georgia
Victor, Jonathan, Weill Cornell Medical College
Whitaker, Ross, University of Utah

**LECTURERS**

Golani, Ilan, Tel Aviv University
Hamalainen, Matti, Massachusetts General Hospital
Hill, Daniel, University of California, San Diego
Van Essen, David, Washington University
Zikopoulos, Vasileios, Boston University

**TEACHING ASSISTANTS**

Kaye, Alfred, Salk Institute / University of California, San Diego
Kulkarni, Jayant, Cold Spring Harbor Laboratory

**COURSE ASSISTANT**

Gilmore, Anthony, University of California, Santa Cruz

**STUDENTS**

Ali, Farhan, Harvard University
Aparicio, Paul, Massachusetts Institute of Technology
Bardin, Jonathan, Weill Cornell Medical College
Becker, Nadine, University of Bristol
Carrasco, Andres, University of Western Ontario
Chen, Zhiping, University of California, Los Angeles
Collins, Lyndsey, University of Connecticut
Dehghani, Nima, Centre National de la Recherche Scientifique
Gao, Xiaojing, Stanford University
Goldfine, Andrew, Weill Cornell Medical College
Goulet, Julie, Radboud University
Graham, Dustin, University of Virginia
Grion, Natalia, Scuola Internazionale degli Studi Superiori Avanzati
Haufler, Darrell, Rutgers-Newark
Hermes, Dora, Rudolf Magnus Institute of Neuroscience
Kamrunnahar, Mst, Penn State University
Likhtik, Ekaterina, Columbia University
Mankin, Emily, University of California, San Diego
Markowitz, Jeffrey, Boston University
<table>
<thead>
<tr>
<th>Course Lists</th>
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<tbody>
<tr>
<td><strong>Semester in Environmental Science</strong></td>
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<tr>
<td>McMahon, Chantal, Drexel University</td>
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<tr>
<td>Romano, Sebastian, Ecole Normale Superieure de Paris</td>
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<tr>
<td>Schneider, Eve, Otsuka Maryland Medicinal Laboratory</td>
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<td>Stolzberg, Daniel, University of Buffalo</td>
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<td>Takaora, Kana, Tamagawa University</td>
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<tr>
<td>Vazquez Zuniga, Yuriria, Universidad Nacional Autónoma de Mexico</td>
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<tr>
<td>Zeid, Omar, Boston University</td>
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<tr>
<td><strong>Logan Science Journalism Program</strong></td>
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<tr>
<td>McMahon, Chantal, Drexel University</td>
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<td>Romano, Sebastian, Ecole Normale Superieure de Paris</td>
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<td>Zeid, Omar, Boston University</td>
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<tr>
<td><strong>NASA Planetary Biology Internship Program</strong></td>
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<tr>
<td>McMahon, Chantal, Drexel University</td>
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<td>Romano, Sebastian, Ecole Normale Superieure de Paris</td>
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<td>Schneider, Eve, Otsuka Maryland Medicinal Laboratory</td>
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<td>Stolzberg, Daniel, University of Buffalo</td>
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<td>Takaora, Kana, Tamagawa University</td>
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<tr>
<td>Vazquez Zuniga, Yuriria, Universidad Nacional Autónoma de Mexico</td>
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<tr>
<td>Zeid, Omar, Boston University</td>
</tr>
</tbody>
</table>
Summer Program in Neuroscience, Ethics & Survival
June 12 – July 10, 2010

COURSE DIRECTORS
Martinez, Joe, University of Texas at San Antonio
Townsel, James, Meharry Medical College

FACULTY
Achanta, Pragathi, The Johns Hopkins University
Berger-Sweeney, Joanne, Wellesley College
Castaneda, Edward, University of Texas at El Paso
Dzakpasu, Rhonda, Georgetown University
Etgen, Anne, Albert Einstein College of Medicine
Fox, Tom, Harvard University / National University of Singapore
Garzon-Muvdi, Tomas, The Johns Hopkins University
Hildebrand, John, University of Arizona
Nishi, Rae, University of Vermont
Pate, William, American Psychological Association
Quinones, Alfredo, The Johns Hopkins University
Stuart, Ann, University of North Carolina at Chapel Hill
Trujillo, Keith, California State University, San Marcos
Lisman, John, Brandeis University
Mensinger, Allen, University of Minnesota Duluth
Zottoli, Steven, Williams College

LECTURERS
Eisthen, Heather, Michigan State University
Katz, Paul, Georgia State University
Kravitz, Edward, Harvard Medical School
Sanes, Joshua, Harvard University

COURSE COORDINATOR
Winchester, Jeanna, University of California, Irvine

STUDENTS
Balasubramanian, Revathi, University of Rochester
Bell, Genevieve, Florida State University
Fennell, Ashley, Meharry Medical College
Fontanez-Nuin, Darah, Ponce School of Medicine
Gamble-George, Joyonna, Meharry Medical College
Gonzalez-Plaza, Roberto, Indigenous Education Institute
Jimenez, Mariana, Northwestern University
Keleta, Yonas, University of Texas at San Antonio
Lecavalier, Denis, Arizona State University
Ochoa, Vanessa, University of Vermont
Rhoades, Raina, Vanderbilt University
Riaz, Muhammad Somair, University of Mississippi Medical Center
Rodriguez-Romaguera, Jose, University of Puerto Rico
Sepulveda-Orengo, Mariano, Ponce School of Medicine
Torres, Oscar, University of Texas at El Paso
Walker, Ellen, University of Texas at El Paso
Wong, Ling, University of California, Davis
Semester in Environmental Science
Logan Science Journalism Program
NASA Planetary Biology Internship Program
Workshop on Molecular Evolution
July 25 – August 6, 2010

COURSE DIRECTOR
Cummings, Michael, University of Maryland, College Park

FACULTY
Ayres, Daniel, University of Maryland, College Park
Bazinet, Adam, University of Maryland, College Park
Beerli, Peter, Florida State University
Bielawski, Joseph, Dalhousie University
Corse, Sarah, University of Virginia
Drummond, Alexei, University of Auckland
Kuhner, Mary, University of Washington
Lewis, Paul, University of Connecticut
Meyer, Axel, University of Konstanz, Germany
Pearson, William, University of Virginia
Ronquist, Fredrik, Swedish Museum of Natural History
Shaw, Kerry, Cornell University
Swofford, David, Duke University
Turner, Paul, Yale University
Yoder, Anne, Duke University
Yokoyama, Shozo, Emory University
Zwickl, Derrick, The University of Kansas

TEACHING ASSISTANTS
Horton, Natalie, Bangor University
Lellis, Renata, FIOCRUZ
Mousseau, Tonya, University of Calgary
Zapata, Felipe, University of California, Berkeley

STUDENTS
Bacon, Christine, Colorado State University
Barton, Michael, Northern Kentucky University
Bastos, Armanda, University of Pretoria
Bendall, Matthew, Brigham Young University
Bensch, Staffan, Lund University
Binet, Rachel, U.S. Food and Drug Administration
Branock, Pamela, University of South Carolina at Columbia
Brites, Daniela, University of Basel
Calvente, Alice, Universidade de São Paulo
Castro Nallar, Eduardo, Brigham Young University
Castro, Lyda, Universidad del Magdalena
Duchene, Sebastian, Universidad de los Andes
Duncan, Rebecca, University of Miami
Endara, Lorena, University of Florida
Escalera, Marina, Universidad Nacional Autónoma de Mexico
Ferreira, Renata, Federal University of São Paulo
Frary, Amy, Mount Holyoke College
Frary, Anne, Izmir Institute of Technology
Gomes, Gabriela, Instituto Gulbenkian de Ciencia
Gomez Cabrera, Maria, The University of Queensland
Gomez, Sergio, Universidad de los Andes
Goodman, Kari, University of California, Berkeley
Grajales, Alejandro, Richard Gilder Graduate School at the American Museum of Natural History
Heffer, Alison, University of Maryland, College Park
Hoffmann, Luisa, Federal University of Rio de Janeiro
Huang, Austin, Brown University
Jaret, Jessica, University of New Hampshire
<table>
<thead>
<tr>
<th>Course Name</th>
<th>Institution</th>
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<tbody>
<tr>
<td>Semester in Environmental Science</td>
<td>Johansson, Jenny, Linnaeus University</td>
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<td>Kamath, Pauline, University of California, Berkeley</td>
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<td>Kitchen, James, The University of Warwick</td>
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<td>Logan Science Journalism Program</td>
<td>Lassance, Jean-Marc, Lund University</td>
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<td>Loaiza, Jose, New York State Department of Health</td>
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<tr>
<td>NASA Planetary Biology Internship</td>
<td>Majaneva, Markus, University of Helsinki</td>
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<tr>
<td>Program</td>
<td>Marques, Fernando, University of São Paulo</td>
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<td></td>
<td>Montinielli, Vanessa, Federal University of Rio de Janeiro</td>
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<td>Moreno Leirana, Marta, New York State Department of Health</td>
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<td>Murdock, Duncan, University of Bristol</td>
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<td>Nelson, Leigh, Commonwealth Scientific and Industrial Research Organisation</td>
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<td>Parker, Kenneth, Old Dominion University</td>
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<td></td>
<td>Piaggio, Antoinette, USDA National Wildlife Research Center</td>
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<td>Poelstra, Jelmer, Uppsala University</td>
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<td>Ramachandran, Sohini, Brown University</td>
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<td>Ratnakumar, Abhirami, Uppsala University</td>
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<td>Ronsted, Nina, University of Copenhagen</td>
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<td>Scotch, Matthew, Yale University</td>
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<td>Seetharam, Arun, Indiana State University</td>
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<td>Silva, Maria José, Instituto Butantan</td>
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<td></td>
<td>Ssemwanga, Deogratius, MRC/UVRI Uganda Research Unit on AIDS</td>
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<td>Stervander, Martin, Lund University</td>
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<td>Strzala, Tomasz, Wroclaw University of Environmental and Life Sciences</td>
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<td></td>
<td>Talavera, Gerard, Institute of Evolutionary Biology (CSIC-UPF)</td>
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<td>Tellez, Ricardo, Universidad de los Andes</td>
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<td>Tirumalai, Madhan, University of Houston</td>
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<td>Zaspel, Jennifer, University of Minnesota</td>
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<td>Zheng, Qi, U.S. Centers for Disease Control and Prevention</td>
</tr>
</tbody>
</table>

[Home] [Research] [Education] [Library] [Financials] [Gifts] [People] [MBL At-A-Glance]
SUMMER COURSES:

Biology of Parasitism
Embryology
Frontiers in Reproduction
Microbial Diversity
Neurobiology
Neural Systems & Behavior
Physiology

SPECIAL TOPICS:

Analytical & Quantitative
Light Microscopy
Biology of the Inner Ear
BioMedical Informatics I
BioMedical Informatics II
Frontiers in Stem Cells & Regeneration
Fundamental Issues in Vision Research
Gene Regulatory Networks
Methods in Computational Neuroscience
Molecular Biology of Aging
Molecular Mycology
Neuroinformatics

SPINES
Workshop on Molecular Evolution
Zebrafish Course

OTHER PROGRAMS:

Brown-MBL Program

Zebrafish Development & Genetics
August 8 – August 22, 2010

COURSE DIRECTORS
Granato, Michael, University of Pennsylvania School of Medicine
Raible, David, University of Washington

FACULTY
Chien, Chi-Bin, University of Utah
Collazo, Andres, House Ear Institute
Durchanek, Rose, University of Oregon
Fadool, James, Florida State University
Fetcho, Joseph, Cornell University
Houart, Corinne, King’s College London
Karlstrom, Rolf, University of Massachusetts, Amherst
Kimmel, Charles, University of Oregon
Kimmel, Reida, University of Oregon
Moens, Cecilia, Fred Hutchinson Cancer Research Center
Mullins, Mary, University of Pennsylvania School of Medicine
Neuhauss, Stephan, University of Zurich
Peterson, Randall, Harvard Medical School
Raz, Erez, University of Muenster
Schier, Alexander, Harvard University
Talbot, William, Stanford University
Wilson, Stephen, University College London
Woods, Ian, Harvard University

LECTURERS
Dowling, John, Harvard University
Otsuna, Hideo, University of Utah

TEACHING ASSISTANTS
Folgueira, Monica, University College London
Hailey, Dale, University of Washington
Hashiguchi, Megumi, University of Pennsylvania
Jain, Roshan, University of Pennsylvania
Kardash, Elena, University Clinics Muenster
Kimmel, Reida, University of Oregon
Kokel, David, Massachusetts General Hospital
Koyama, Minoru, Cornell University
Placinta, Mike, University of Massachusetts, Amherst
Riley, Michael, Cornell University
Shen, Meng-Chieh, University of Massachusetts, Amherst
Stacher Horndli, Cornelia, University of Utah
van Ham, Tjakko, Massachusetts General Hospital / Harvard University
Walsh, Gregory, Fred Hutchinson Cancer Research Center
Wolman, Marc, University of Pennsylvania

COURSE COORDINATORS
Cerveny, Kara, University College London
Schumacher Tucker, Jennifer, Cincinnati Children's Hospital

COURSE ASSISTANTS
Freeman, April, University of Oregon
Stewart-Swift, Caitlin, Tufts University School of Dental Medicine
Walsh, Meghan, Marine Biological Laboratory

STUDENTS
Adams, Meghan, Massachusetts General Hospital / Harvard University
Brachmann, Isabel, University of Heidelberg
Breton, Ghislain, University of California, San Diego
Chan, Sherine, Medical University of South Carolina
Crow-Sanchez, Karen, San Francisco State University
<table>
<thead>
<tr>
<th>Course Lists</th>
<th>Students</th>
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<tbody>
<tr>
<td>Semester in Environmental Science</td>
<td>Das, Bhaskar, Albert Einstein College of Medicine</td>
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<td>Dennis, Megan, University of Washington</td>
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<tr>
<td>Logan Science Journalism Program</td>
<td>Dutko, James, University of Pennsylvania, School of Medicine</td>
</tr>
<tr>
<td>NASA Planetary Biology Internship Program</td>
<td>Fior, Rita, Instituto de Medicina Molecular</td>
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<td>Gannon, James, Brown University</td>
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<td>Green, Amelia, Harvard Medical School</td>
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<td>Grove, Charlotte, Albert Einstein College of Medicine</td>
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<td>Karsi, Attila, Mississippi State University</td>
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<td>Keller, Philipp, Howard Hughes Medical Institute</td>
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<td>Kwon, Ronald, La Jolla Bioengineering Institute</td>
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<td>Leung, Kin Mei, Medical Research Council</td>
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<td>Lugo, Joaquin, Baylor University</td>
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<td>Malkinson, Guy, The Weizmann Institute of Science</td>
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<td>Murdoch, Fern, Edgewood College</td>
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<td>Peterson, Samuel, Purdue University</td>
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<td>Siksou, Lea, Institut National de la Santé et de la Recherche Médicale</td>
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<td>Zarelli, Valeria, NIH / National Institute of Child Health and Human Development</td>
</tr>
</tbody>
</table>
SUMMER COURSES:
- Biology of Parasitism
- Embryology
- Frontiers in Reproduction
- Microbial Diversity
- Neural Systems & Behavior
- Neurobiology
- Physiology

SPECIAL TOPICS:
- Analytical & Quantitative Light Microscopy
- Biology of the Inner Ear
- BioMedical Informatics I
- BioMedical Informatics II
- Frontiers in Stem Cells & Regeneration
- Fundamental Issues in Vision Research
- Gene Regulatory Networks
- Methods in Computational Neuroscience
- Molecular Biology of Aging
- Molecular Mycology
- Neuroinformatics
- SPINES
- Workshop on Molecular Evolution
- Zebrafish Course

OTHER PROGRAMS:
- Brown-MBL Program

Brown–MBL Graduate Program in Biological and Environmental Sciences

STUDENTS
- Allen, Justine, Neuroscience
- Angermeyer, Angus, Ecology and Evolutionary Biology
- Brin, Lindsay, Ecology and Evolutionary Biology
- Corman, Sarah, Ecology and Evolutionary Biology
- Dutta, Anupriya, Molecular Biology, Cell Biology and Biochemistry
- Hasegawa, Yuko, Molecular Biology, Cell Biology and Biochemistry
- Hayhoe, Shelby, Ecology and Evolutionary Biology
- Lasek-Nesselquist, Erica, Ecology and Evolutionary Biology
- Luria, Catherine, Ecology and Evolutionary Biology
- Nagy, Chelsea, Ecology and Evolutionary Biology
- Theroux, Susanna, Geological Sciences
- Yang, Xi, Geological Sciences

MBL MENTORS TO BROWN–MBL GRADUATE STUDENTS

Mentor | Student
---|---
Linda Amaral-Zettler, Bay Paul Center | Susanna Theroux, Catherine Luria
Gary Borisy, Bay Paul Center | Yuko Hasegawa
Linda Deegan, Ecosystems Center | Sarah Corman
Anne Giblin, Ecosystems Center | Lindsay Brin
Roger Hanlon, Marine Resources Center | Justine Allen
Julie Huber, Bay Paul Center | Angus Angermeyer
David Mark-Welch, Bay Paul Center | Anupriya Dutta
ChristopherNeill, Ecosystems Center | Shelby Hayhoe, Chelsea Nagy
Rudolf Oldenbourg, Cellular Dynamics Program | Alex Valm
Mitchell Sogin, Bay Paul Center | Erica Lasek-Nesselquist
Jim Tang, Ecosystems Center | Xi Yang

MBL SCIENTISTS with BROWN APPOINTMENTS

Amaral Zettler, Linda, Bay Paul Center
Arkhipova, Irina, Bay Paul Center
Cardon, Zoe, Ecosystems Center
Deegan, Linda, Ecosystems Center
Ducklow, Hugh, Ecosystems Center
Giblin, Anne, Ecosystems Center
Hamilton, Joshua, Bay Paul Center
Hanlon, Roger, Marine Resources Center
Hobbie, John, Ecosystems Center
Huber, Julie, Bay Paul Center
Mark Welch, David, Bay Paul Center
Melillo, Jerry, Ecosystems Center
Neill, Christopher, Ecosystems Center
Oldenbourg, Rudolf, Cellular Dynamics Program
Peterson, Bruce, Ecosystems Center
Rastetter, Edward, Ecosystems Center
Shaver, Gaius, Ecosystems Center
Simmons Sheri, Bay Paul Center
Sogin, Mitchell, Bay Paul Center
Tang, Jim, Ecosystems Center
Vallino, Joseph, Ecosystems Center

BROWN FACULTY with MBL APPOINTMENTS

Bertness, Mark, Ecology and Evolutionary Biology
Rand, David, Ecology and Evolutionary Biology
Wessel, Gary, Molecular Biology, Cell Biology, and Biochemistry
Witman, Jon, Ecology and Evolutionary Biology
### MBL Scientists Teaching in Brown Courses

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Instructor(s)</th>
<th>Center</th>
</tr>
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<tbody>
<tr>
<td>Foundations for Advanced Study in Experimental Biology</td>
<td>Mark Welch</td>
<td>Bay Paul Center</td>
</tr>
<tr>
<td>Human Impacts on the Functioning of Ecosystems</td>
<td>Neill, Christopher</td>
<td>Ecosystems Center</td>
</tr>
<tr>
<td>Terrestrial Biogeochemistry and the Functioning of Ecosystems</td>
<td>Rastetter, Edward</td>
<td>Ecosystems Center</td>
</tr>
<tr>
<td>Guest Lecturer, Mechanisms of Animal Behavior</td>
<td>Hanlon, Roger</td>
<td>Marine Resources Center</td>
</tr>
</tbody>
</table>
SUMMER COURSES:
- Biology of Parasitism
- Embryology
- Frontiers in Reproduction
- Microbial Diversity
- Neurobiology
- Neural Systems & Behavior
- Physiology

SPECIAL TOPICS:
- Analytical & Quantitative
- Light Microscopy
- Biology of the Inner Ear
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- BioMedical Informatics II
- Frontiers in Stem Cells & Regeneration
- Fundamental Issues in Vision Research
- Gene Regulatory Networks
- Methods in Computational Neuroscience
- Molecular Biology of Aging
- Molecular Mycology
- Neuroinformatics

RESEARCH AND TEACHING ASSISTANTS
- Daniels, William
- Kwiatkowski, Bonnie
- McHorney, Richard
- Strebek, Stefanie

STUDENTS
- George Allen, Oberlin College
- Sarah Berry, Carleton College
- Melissa Campbell, Clark University
- Alice Carter, Northwestern University
- David Dodge, Middlebury College
- Holly Engel, Clarkson College
- Daniel Feinberg, Hamilton College
- Lolly Lim, Brown University
- Sarah Naramore, Lafayette College
- Brendan O'Leary, Allegheny College
- Melanie Poole, Connecticut College
- Austin Ritter, Middlebury College
- Meghan Short, Brown University
- Miranda Sinnott-Armstrong, Brown University
- Brian Suh, Haverford College
- Ian Yue, Wheaton College
Semester in Environmental Science
Logan Science Journalism Program
NASA Planetary Biology Internship Program
MBL Logan Science Journalism Program

**CO-DIRECTORS**
Angela Posada-Swafford, US Correspondent, Muy Interesante Magazine

**ADMINISTRATIVE STAFF**
Andrea Early, Administrative Director
Pamela Wilmot, Program Assistant

**BIOMEDICAL COURSE DIRECTORS**
David Burgess, Professor of Biology, Boston College
Charles Shuster, Associate Professor of Biology, New Mexico State University

**ENVIRONMENTAL COURSES DIRECTOR**
Christopher Neill, Senior Scientist, Marine Biological Laboratory

**BIOMEDICAL FELLOWS**
Joseph Caputo, KnowAtom, LLC
Amos Esty, Dartmouth Medicine magazine
Tina Hesman Saey, Science News
Melanie Kaplan, Freelance
Onche Odeh, Senior Science Correspondent/Knight Fellow, MIT
Melissa Salpietra, Managing Editor, Nova Online, WGBH
Cassandra Willyard, Freelance

**POLAR FELLOWS**
Victoria Barber, News Editor, The Arctic Sounder
Jennifer Bogo, Senior Editor, Science*
Julia Gross, Freelance print journalist, Germany
Louisa Jonas, Louisa Jonas Media
Julia Kumari Drapkin, Global Post, Argentina correspondent
Susan Moran, freelance print journalist
Jane Qui, Nature magazine*
Ben Shaw, Producer/Editor, National Geographic Weekend
Chelsea Wald, Freelance science journalist
Gretchen Weber, Associate Producer, Climate Watch, KQED Public Broadcasting

*also selected for additional month at Palmer Station, Antarctica

**EMERITUS DIRECTORS**
Boyce Rensberger
Pamela Clapp Hinkle, Director External Relations, Marine Biological Laboratory

The 2010 MBL Logan Science Journalism Program was supported by:
American Society for Biochemistry and Molecular Biology
Friends and Alumni of the Science Journalism Program
Howard Hughes Medical Institute
George & Harmon Logan
National Science Foundation Office of Polar Programs
Semester in Environmental Science
Logan Science Journalism Program
NASA Planetary Biology Internship Program
Summer Courses:
- Biology of Parasitism
- Embryology
- Frontiers in Reproduction
- Microbial Diversity
- Neurobiology
- Neural Systems & Behavior
- Physiology

Special Topics:
- Analytical & Quantitative Light Microscopy
- Biology of the Inner Ear
- BioMedical Informatics I
- BioMedical Informatics II
- Frontiers in Stem Cells & Regeneration
- Fundamental Issues in Vision Research
- Gene Regulatory Networks
- Methods in Computational Neuroscience
- Molecular Biology of Aging
- Molecular Mycology
- Neuroinformatics
- SPINES Workshop on Molecular Evolution
- Zebrafish Course

Other Programs:
- Brown-MBL Program

NASA Planetary Biology Internship Program

Directors:
- Dolan, Michael F., University of Massachusetts, Amherst
- Margulis, Lynn, University of Massachusetts, Amherst

Sponsors:
- Bebout, Brad, NASA Ames Research Center
- Boston, Penny, New Mexico Tech
- Falkowski, Paul, Rutgers University
- Garland, Jay, NASA Kennedy Space Center
- Glover, David M., Woods Hole Oceanographic Institution
- Huber, Julie A., MBL
- Joyce, Gerald, Scripps Research Institute
- Oremland, Ronald, United States Geological Survey (Menlo Park)
- Stolz, John, Duquesne University

Interns:
- Asikainen, Celeste, University of Massachusetts, Amherst
- Bentkowski, Piotr, University of East Anglia
- García-Maldonado, Jose, Centro de Investigaciones Biologicas del Noroeste (Mexico)
- Jenkins, Amy, Virginia Commonwealth University
- McCoy, Sophie, University of Chicago
- Merkel, Alexander, Winogradsky Institute of Microbiology
- Nuñez-Soto, Claudia, Universidad Cátolica del Norte (Chile)
- Plathan, Josefin, Stockholm University
- Siegert, Michael, Federal Institute for Geosciences (Germany)
MBLWHOI LIBRARY

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, 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.

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Rob Thelier, USGS
Peter Smith, MBL
John Waterbury, WHOI
Ann Stuart, MBL
John Dacy, WHOI
John Hobbie, MBL

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Baccetti, Baccio, University of Siena
Bermuda Institute of Ocean Sciences

Center for Coastal Studies
Changeux, Jean-Pierre, Institut Pasteur
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CIEE Research Station Bonaire
Claydon, John
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deToledo-Morrell, Leyla, Rush University Medical University Medical Center

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Finkelstein, Amy, Massachusetts Institute of Technology
Fischbach, Gerald, Simons Foundation
Fenkel, Kristina

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Hines, Michael, Yale University
Hotchkiss, Frederick, MPR Institute

Issidorides, Marietta, University of Athens

Jacobson, Allan, University of Massachusetts Medical School
Jaffe, Lionel, Marine Biological Laboratory
Jaye, Robert A., Solomon Schechter Day School

Karnovsky, Nina J. Kelliher, Michelle A.
King, Kenneth, Woods Hole, MA Kuhns, Bill, Hospital for Sick Children

Laderman, Aimlee, Yale University School of Forestry and Environmental Studies
Loewenstein, Werner, Journal of Membrane Biology
Lyton, William W., SUNY Downstate Physiology & Pharmacology
MA Department of Marine Fisheries
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Manomet Center for Conservation Science
Mellon, DeForest, University of Virginia
Mitchell, Ralph, Harvard University
Mizell, Merle, Tulane University

Narahashi, Toshio, Northwestern University Medical School
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New England Aquarium Right Whale Research
New England Fishery Management Council
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Shanklin, D. Radford
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Shepro, David, Boston University
Shimomura, Osamu, Marine Biological Laboratory
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Sohn, Joel J. Spector, Abraham, Columbia University
Spiegel, Evelyn, Dartmouth College
Spiegel, Melvin, Dartmouth College
Spotte, Stephen, Mote Marine Lab
Suits, Carol Reinisch, Environment Canada
Sweet, Frederick, Washington University School of Medicine

Tetra Tech
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Tweedell, Kenyon, University of Notre Dame
Tytell, Michael, Wake Forest University School of Medicine

University of Virgin Islands
van Hoek, Monique L., George Mason University

Warren, Leonard, University of Pennsylvania Medical School
Weidner, Earl, Louisiana State University
Weissmann, Gerald, New York University School of Medicine
Williams, C. Rogers, National Marine Life Center
Woodhead, Peter, SUNY Stonybrook
Woods Hole Research Center

Yevick, George, Stevens Institute of Technology
REPORT OF THE TREASURER

Following an exceptional year in 2009, the MBL had another favorable year in 2010. We continued to reap the benefits from our resident research growth initiatives, went public with our Catalyst Campaign, completed significant improvements in our facilities, and continued our control of administrative and support costs. The Balance Sheet and Operating History that follow reflect the positive results.

NET ASSETS

The MBL’s equity base experienced an approximately $7 million increase, representing a 6.2% Return on Average Net Assets. This return increased MBL’s equity to approximately $115 million.

ASSETS

Total Assets increased slightly, reflecting a cross-current of factors. Property and Equipment net increased 16% as we made $17.4 million in additions to the physical wealth of the laboratory. Investments, at fair value, were unchanged, but this was due to a combination of factors: 1) a 13% investment return on MBL’s long-term investment portfolio, 2) a $10.5 million addition to the endowment, and 3) an offsetting reduction in short-term investments used in completing the Loeb Laboratory renovation. Pledges and Other Receivables declined primarily due to the receipt of the final portion of the Howard Hughes Medical Institute pledge in support of the renovation.

LIABILITIES

MBL’s obligations declined $3.5 million last year. The large reduction in Accounts Payable was due to completion of the payment of the Loeb Laboratory construction costs.

OPERATING SUPPORT

Operating Support was flat compared to 2009 and was driven by two principal factors. First was a $3.3 million increase in Grant & Contract revenues associated almost entirely with our research activities. This was due to management’s focus on this sector, an effort that resulted in the net addition of 7 scientists last year. American Recovery & Reinvestment Act awards totaling $10.5 million were partially used, covering 90% of this increase, but will have a bigger impact on revenues next year. While contributions decreased from record levels in 2009, the Annual Fund exceeded $1 million for the second year in a row. The Catalyst Campaign raised over $111 million in gifts and pledges as of December 31, 2010, well on the way to its goal of $125 million. Additionally, our expanded scientific team should help us sustain the record level in our Research Grant & Contract revenues of $23 million that we realized in 2010.

EXPENSES

Total expenses increased 6.5% with almost all the growth dedicated to Research staffing and activities costs. Sound expense control was evident with declines in professional services, travel, utilities, supplies, and other expenses from 2009 levels. In fact, the facilities and administrative units’ expenses were reduced by $148 thousand from 2009.
The favorable outcome in this area was driven entirely by the above average investment gains.

**FUTURE EXPECTATIONS**

The MBL has made progress in efforts to develop a sustainable business model, particularly for Research and Visiting Research activities, which are both functioning with slight surpluses. On the other hand, we envision a challenging environment with National Science Foundation and National Institutes of Health funding likely to be reduced or level funded in future years. So we must rely on financial prudence and continued strong support of the Catalyst Campaign and its efforts to enhance the MBL’s endowment to help assure a solid performance in 2011 and beyond.

— Mary B. Conrad, Treasurer
# FINANCIALS

## Operating History and Balance Sheet as of December 31, 2010 and 2009 (in thousands)

<table>
<thead>
<tr>
<th>ASSETS:</th>
<th>2010</th>
<th>2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash and Cash Equivalents</td>
<td>2,419</td>
<td>2,281</td>
</tr>
<tr>
<td>Pledges and Other Receivables</td>
<td>17,241</td>
<td>24,756</td>
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<tr>
<td>Other Assets</td>
<td>1,766</td>
<td>1,425</td>
</tr>
<tr>
<td>Investments, at Fair Value</td>
<td>64,499</td>
<td>64,223</td>
</tr>
<tr>
<td>Property and Equipment, Net</td>
<td>71,663</td>
<td>61,490</td>
</tr>
<tr>
<td><strong>TOTAL ASSETS</strong></td>
<td><strong>$157,578</strong></td>
<td><strong>$154,175</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LIABILITIES:</th>
<th>2010</th>
<th>2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounts Payable</td>
<td>3,099</td>
<td>6,167</td>
</tr>
<tr>
<td>Line of Credit</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Annuities and Unithrusts Payable</td>
<td>554</td>
<td>633</td>
</tr>
<tr>
<td>Deferred Revenue and Other Liabilities</td>
<td>7,028</td>
<td>6,715</td>
</tr>
<tr>
<td>Long-Term Debt</td>
<td>31,930</td>
<td>32,645</td>
</tr>
<tr>
<td><strong>Total Liabilities</strong></td>
<td><strong>$42,611</strong></td>
<td><strong>$46,160</strong></td>
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</table>

<table>
<thead>
<tr>
<th>NET ASSETS:</th>
<th>2010</th>
<th>2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unrestricted</td>
<td>44,224</td>
<td>34,939</td>
</tr>
<tr>
<td>Temporarily Restricted</td>
<td>20,109</td>
<td>30,938</td>
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<tr>
<td>Permanently Restricted</td>
<td>50,634</td>
<td>42,128</td>
</tr>
<tr>
<td><strong>Total Net Assets:</strong></td>
<td><strong>$114,967</strong></td>
<td><strong>$108,015</strong></td>
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<table>
<thead>
<tr>
<th>TOTAL LIABILITIES AND NET ASSETS</th>
<th>2010</th>
<th>2009</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>$157,578</strong></td>
<td><strong>$154,175</strong></td>
<td></td>
</tr>
</tbody>
</table>

## OPERATING HISTORY (in thousands)

<table>
<thead>
<tr>
<th>OPERATING SUPPORT</th>
<th>2010</th>
<th>2009</th>
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</thead>
<tbody>
<tr>
<td>Government Grants</td>
<td>22,289</td>
<td>19,018</td>
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<tr>
<td>Non-Federal Grants and Contracts</td>
<td>6,646</td>
<td>5,562</td>
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<tr>
<td>Laboratory Rental and Net Tuition</td>
<td>2,158</td>
<td>2,304</td>
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<tr>
<td>Fees for Conferences and Services</td>
<td>4,448</td>
<td>4,556</td>
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<tr>
<td>Contributions</td>
<td>11,727</td>
<td>15,101</td>
</tr>
<tr>
<td>Investment and Other Revenue</td>
<td>3,468</td>
<td>3,089</td>
</tr>
<tr>
<td><strong>Total Operating Support</strong></td>
<td><strong>49,746</strong></td>
<td><strong>49,621</strong></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>EXPENSES:</th>
<th>2010</th>
<th>2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research</td>
<td>28,699</td>
<td>26,587</td>
</tr>
<tr>
<td>Visiting Research</td>
<td>3,880</td>
<td>3,810</td>
</tr>
<tr>
<td>Education</td>
<td>8,827</td>
<td>8,279</td>
</tr>
<tr>
<td>Conferences and Services</td>
<td>3,284</td>
<td>3,180</td>
</tr>
<tr>
<td>Other Programs</td>
<td>1,878</td>
<td>1,818</td>
</tr>
<tr>
<td><strong>Total Expenses</strong></td>
<td><strong>$46,498</strong></td>
<td><strong>$43,674</strong></td>
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## CHANGES IN NET ASSETS BEFORE NON-OPERATING ACTIVITY:

<table>
<thead>
<tr>
<th>Non-Operating Activities:</th>
<th>2010</th>
<th>2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributions to Plant and Other Income, Net</td>
<td>(767)</td>
<td>13,912</td>
</tr>
<tr>
<td>Total Investment Income and Earnings</td>
<td>7,129</td>
<td>11,248</td>
</tr>
<tr>
<td>Less Investment Earnings Used for Operations</td>
<td>(2,658)</td>
<td>(2,361)</td>
</tr>
<tr>
<td>Reinvested Investment Earnings</td>
<td>4,471</td>
<td>8,887</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>TOTAL CHANGE IN NET ASSETS:</strong></th>
<th>2010</th>
<th>2009</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>$6,952</strong></td>
<td><strong>$28,746</strong></td>
<td></td>
</tr>
</tbody>
</table>

The financial statements of the Marine Biological Laboratory for the fiscal year ending December 31, 2010, were audited by Grant Thornton LLP.

Complete financial statements are available on request from

David McLean
Interim Chief Financial Officer
MLB
7 MBL Street
Woods Hole, MA 02543

The operating and balance sheet numbers shown here are unaudited.

The operating and balance sheet numbers shown here are unaudited.
The financial statements of the Marine Biological Laboratory for the fiscal year ending December 31, 2009, were audited by Grant Thornton LLP.

Complete financial statements are available on request from

Homer Lane
Chief Financial Officer
MBL
7 MBL Street
Woods Hole, MA 02543
REPORT OF THE DEVELOPMENT COMMITTEE

I am pleased to report that in 2010 we secured a total of $18,164,770 for MBL research and education programs.

Perhaps the highlight of the year in development was the July 23 Loeb Laboratory ribbon-cutting ceremony, a lively celebration attended by donors, dignitaries, students, scientists, and community members. That day we launched the Catalyst Campaign by showcasing our success in meeting two of the campaign’s major goals: the renovation of Loeb Laboratory and the establishment of a new research initiative for regenerative biology. With transformative gifts of $8 million from Millicent Bell in memory her husband, and a far-sighted commitment of $5 million from Jack and Valerie Rowe, we announced the establishment of the new Eugene Bell Center for Regenerative Biology and Tissue Engineering.

We also received $2 million from Dart Neuroscience LLC, more than $6.5 million from foundations such as the John D. and Catherine T. MacArthur Foundation and the Alfred P. Sloan Foundation, and over $1 million from more than a thousand individuals for the Annual Fund. Our generous donors are helping to transform the MBL and, by extension, the study of biology itself.

On behalf of the members of the Development Committee, the students and scientists whose lives are transformed, and the cause of advancing the science of life, I extend my sincere thanks to those listed in the next few pages. Your generosity and enthusiasm for the MBL is exhilarating.

— Jeffrey Pierce, Chair
MAJOR GIFTS

The MBL gratefully acknowledges the generous contributions of the individuals, foundations, and companies who supported every aspect of our programs and operations in 2010.

$5,000,000-$10,000,000

Millicent Bell
$6,000,000 to establish the Eugene Bell Center for Regenerative Biology & Tissue Engineering named for her late husband, a pioneer of this field of research.

$1,000,000-$4,999,000

The John D. and Catherine T. MacArthur Foundation
$2,321,636 to support the Encyclopedia of Life Biodiversity Informatics Group.

Dart Neuroscience LLC
$2,000,000 to support neurobiological studies of learning and memory at the Whitman Center for Research and Discovery (2010, 2011)

Alfred P. Sloan Foundation
$1,379,583 to support the Bay Paul Center’s work on the International Census of Marine Microbes, on deep ocean microbiology, and analysis of microbial population structures.

$100,000-$999,999

Burroughs Wellcome Fund
$718,392 to support the Biology of Parasitism course and the Frontiers in Reproduction course.

Gordon and Betty Moore Foundation
$549,278 to support the Microbial Diversity course.

The Grass Foundation
$465,200 to support the Albert and Ellen Grass Faculty Grant program, the Neurobiology course, the Neural Systems and Behavior course, the Luigi Mastroianni and Sheldon Segal Scholarship, and the Annual Fund.

William and Lauren Huyett
$315,000 to the Director’s Discretionary Fund and the Annual Fund.

Jeffrey and Margaret Pierce
$300,000 to the Director’s Discretionary Fund and the Annual Fund.

The G. Unger Vetlesen Foundation
$350,000 to support the Bay Paul Center and the Marine Resources Center.

H.F. and Marguerite Lenfest
$275,000 to the Director’s Discretionary Fund and the Annual Fund.

The Clowes Fund, Inc.
$250,000 to support the Semester in Environmental Science Endowment.

Saul Pannell and Sally Currier
$250,000 to the Annual Fund for the years 2010 to 2014.

Cecily Cannan Selby
$252,050 bequest intention and the Annual Fund.
**Patricia and Charles Robertson** $201,320 to the Charles and Patricia Robertson Ecosystems Institutional Fund and the Annual Fund.

**David and Sandra Bakalar** $202,680 to the Bakalar Endowed Director’s Discretionary Fund and the Annual Fund.

**Porter W. Anderson, Jr.** $197,907 to the Director’s Development Fund and the Annual Fund.

**Robert A. Prendergast** $110,502 to the MBL General Endowment and the Annual Fund.

**Anonymous** $105,490 to support the General Education Endowment and the Annual Fund.

**Walter J. and Marjorie B. Salmon** $100,000 to the Swope Center Endowed Maintenance Fund and the Annual Fund.

**The Charles Evans Foundation** $100,000 to provide research awards in neuroscience.
OTHER GIFTS

$10,000-$99,999

Anonymous (4)
American Society for Biochemistry and Molecular Biology
The American Society for Cell Biology
Anderson-Rogers Foundation, Inc.
Beech Tree Trust
Carnegie Institution of Washington
Arthur Vining Davis Foundations
Joel P. and Ruth H. Davis
Gordon W. and Joyce M. Ellis
Gibson Associates, Inc.
Harken Foundation
Caroline Harwood and E. Peter Greenberg
Howard Hughes Medical Institute
Evelyn Lipper and William Speck
George and Harmon Logan
Inga Mahler
Walter E. and Shirley A. Massey
Jean W. Pierce
William Townsend Porter Foundation
Elise and Stanley Rose
Saint Michael and All Angels Episcopal Church
Walter J. and Marjorie B. Salmon
Douglas R. and Virginia M. Shanklin
Society for Developmental Biology, Inc.
Society for Neuroscience
Raymond E. Stephens
Gerard and Mary Swope
Mervyn J. Turner
Christopher M. and Susanna B. Weld
Wellcome Trust
Dyann and Peter Wirth

$5,000-$9,999

Constance M. and Dean C. Allard
Henry Hornblower Fund, Inc.
Dan Kiehart and Patricia Lee Saylor
Masakazu Konishi
Jane Maienschein and Richard Creath
Thomas D. and Patricia S. Pollard
Edward D. and Nancy M. Salmon

$1,000-$4,999

Louise Adler
Gloria S. Borgese
Paul N. Chervin
Marion Cohen
The Company of Biologists Limited
David and Karen Davis
Stephen and Lois Eisen
Peter and Ginny Foreman
L. Patrick Gage and Irina Wilson
Daniel E. Goldberg
Valerie A. and Robert R. Hall
Alan F. Horwitz
Carmela J. Huettner
Hans Lauffer
Joseph Levine and Steven Cadwell
Martha's Vineyard Savings Bank Charitable Fund
Saylo and Elizabeth Munemitsu
Catherine N. Norton
Gordon and Claire Prussian
John and Joan Ripple
John D. and Jean M. Rummel
Joseph W. and Jean M. Sanger
Paul R. Schloerb
Harriet F. Segal
Society of General Physiologists
Abraham Spector and Marguerite Filson
Boris Striepen
John F. Swope
Andrew and Ursula Szent-Györgyi
Unitarian Universalist Fellowship of Falmouth
Ronald Vale and Karen Dell
Susan Volman
Carol A. and Stephen P. Wagner
Washington & Jefferson College
Clare Waterman and Gloria Ward
Alfred M. and Naida D. Weisberg

Up to $1,000

Anonymous (1)
Kristina M. Adams Waldorf
Abdulbaki Agbas
Bryan and Donna Arling
Alexandra Armstrong
Donald R. and Ann W. Aukamp
Talbot Baker
Thomas O. Baldwin and Miriam M. Ziegler
James D. Bangs
Gary Banta
Nancy Barnet
Alexandra L. Basolo
Jonathan Beckwith
Paul Begovac
Andrew Belmonte
Thomas and Mary Jo Benjamin
Brenda J. Bodian
Lonegan Bonczek and Mary Makela
Edward Michael Bonder
David Borden
Catherine A. Brennan
John Brereton
Giovanna Breu
Peter M. Buck
Linda M. Callahan
Leah J. Campbell
Kevin R. Carman
Geraldine J. Casper
Remy P. Chait
John and Sandra Checklick
Children's School of Science, Inc.
Carol Chittenden
Charles G. Clarke
David Clarke
Sarah Cohen
Joseph A. and Betty Ann Cook
Alice Cooperstein
Thomas and Geraldine Crane
John and Gwen Daniels
Doris W. Epstein
Debra Ann and James Fadool
Robert and Joanne Fallon
Gabriella J. Farnham
Andrew and Amy Feinberg
Caraciolo J. Fernandes
Sarah Q. Foster
Carie M. Frantz
Christopher J. Freeman
Howard J. Fuller
Arthur G. Gaines
Mary George
MaryLou Glazer
Michael and Ellen Goldenberg
Robert D. and Anne E. Goldman
Bruce and Mary Goodman
Katherine Gordon
Michael Gottlieb
Gustav Grosch and Jane Kulesza
Laura Grosch and Herb Jackson
Paul and Mona Gross
Frank and Barbara Hanson
Raymond L. Hayes, Jr.
Joseph Heitman
Catherine Hibbitt and Tim Rockwell
Karen M. Hibbitt
Jay Hiller
David M. and Ann Hills
Lawrence and Layne Hobbie
Tracy M. Hodgson
Kenneth W. Horch
Jennifer M. Huettner
Deborah Hyland
David Isenberg and Paula Blumenthal
Freda Kaminer
James L. Kaplan
Jon Kayyem
Edward and Edna Kean
Kathleen A. Killian
Kenneth Korach
Mike and Beth Kramer
Louis S. and Camilla B. Larrey
Mary E. Lawrence
Jeffrey Lazarus and Phyllis Cohen
Elizabeth E. LeClair
Sue Ying Lee
Jack and Francine Levin
Chenghui Li
Jon Martin Lindstrom
Madeleine Littman
Robert L. and Gwyneth E. Loud
Warner E. Love
Thomas E. Lovejoy
Kaitlyn Lucey
Craig C. and Darlene M. Malbon
Tianyi Mao
Jack Martinelli and Nancy Couts
Anne E. McBride
Joseph and Darlene McGuire
William N. and Marianne W. Mebane
David A. and Virginia I. Miller
Lynn Miller
Florence E. Mixer
Steve S. Moore
Nancy Mordente
James Morrell
William R. Mowrey
Donald L. Mykles
Pius N. Nde
Pamela Nelson and Christopher Olmsted
Ann Little Newbury
Amy Nobu
Ana Lia Obaid
Elizabeth Pennisi
Richard D. Perron
Harmony Glazebrook Pittet
Tanya D. Podchiyska
David Poppick
Rachel S. Poretsky
Jeffrey L. Ram
Bernard B. Rees
Elizabeth Ripple
John and Jeanine Ripple
Ginny L. Ryan Buresh
Ethan Schrank
Courtney H. Shannon
Joseph and Carolyn Shannon
Edward I. Shaw
Alexandra E. Shea
David and Marilyn Sheprow
Ujwal P. Sheth
Celia E. Shiau
L. David Sibley
Thomas Sikley
James Slock
Stephen Smith and JoAnn Buchanan
Thomas F. and Anne W. Snyder
Jill A. Sohm
Debra L. Spinelli
Nadja Spitzer
Lawrence R. and Nancy L. Sullivan
Lawrence Sweetman
Catherine D. Thaler
Holly Thompson
Volker and Mary Ulbrich
John J. and Frederica W. Valois
Matthijs A.A. van der Meer
Garret VanWart
Angela C. Vincent
Daniel Wagenaar
Leonard and Eve Warren
William K. Webster
Edward and Dia Weil
John and Barbara Weyand
John and Patty Wineman
Michelle A. Wood
Teresa Woodruff and Thomas O’Halloran
David D. Wu
M. Jade Zee
Jeffrey A. and Johanna A. Zinn

Gifts in Kind

Bernice Cramer and Paul Friedman
Paul R. Dupee, Jr.
Fine Science Tools
Life Technologies, Inc.
Rose Brand, Inc.
Sutter Instruments
Michael Tytell
World Precision Instruments
Bora Yoon

In 2010, the MBL continued to benefit from major multi-year gifts pledged in previous years from the following:

Anonymous (2)
Burroughs Wellcome Fund
The Ellison Medical Foundation
The Grass Foundation
David and Susan Hibbitt
Howard Hughes Medical Institute
George and Harmon Logan
The David and Lucile Packard Foundation
Rowe Family Foundation
Alfred P. Sloan Foundation
The G. Unger Vetlesen Foundation
Scholarships and fellowships enable the MBL to stay competitive by attracting and supporting top flight researchers and students. We gratefully acknowledge donors to the following funds in 2010:

**Robert Day Allen Fellowship**
Joseph W. and Jean M. Sanger

**American Society for Cell Biology Summer Research Awards**
The American Society for Cell Biology

**Frederik B. and Betsy G. Bang Fellowship Fund**
Jack and Francine Levin

**IBRO Scholarships for Advanced Neuroscience Courses**
Society for Neuroscience

**John and Elisabeth Buck Endowed Scholarship**
Alexandra Armstrong
Peter M. Buck
Children’s School of Science, Inc.
Charles G. Clarke
Michael and Ellen Goldenberg
Gustav Grosch and Jane Kulesza
Frank and Barbara Hanson
Catherine Hibbitt and Tim Rockwell
Karen M. Hibbitt
Mary E. Lawrence
Mary and Volker Ulbrich
John J. and Frederica W. Valois

**William D. Cohen Endowed Scholarship Fund**
David Borden
Marion Cohen
Sarah Cohen

**Company of Biologists Scholarship for Embryology**
The Company of Biologists Limited

**E.G. Conklin Scholarship Fund**
Joseph W. and Jean M. Sanger

**Eugene Floyd DuBois Memorial Fund**
Harmony Glazebrook Pittet

**Frontiers in Reproduction Scholarship Fund Burroughs Wellcome Fund**
Teresa Woodruff and Thomas O’Halloran

**Albert and Ellen Grass Faculty Grant Program**
The Grass Foundation

**Daniel S. and Edith T. Grosch Scholarship Fund**
Gustav Grosch and Jane Kulesza
Laura Grosch and Harb Jackson

**Aline D. Gross Scholarship**
Paul and Mona Gross
Freda Kaminer
Alfred M. and Naida D. Weisberg

**Gruss Lipper Family Foundation**
Evelyn Lipper and William Speck

**Benjamin Kaminer Scholarship**
Paul and Mona Gross

**Edwin S. Linton Scholarship Fund**
Washington & Jefferson College

**Luigi Mastroianni and Sheldon Segal Scholarship Fund**
The Grass Foundation
John and Barbara Weyand

**MBL Associates Endowed Scholarship Fund**
MBL Associates

**James A. and Faith Miller Fellowship Fund**
David A. and Virginia I. Miller

**Mountain Memorial Fund**
Constance M. and Dean C. Allard
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John J. Wille, Embryology

1970
Yves Courtois, Embryology
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1980
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Richard O'Brien, Neurobiology
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1985
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Thirty scientists received awards to conduct research at the MBL in 2010.

Mohan Balasubramanian, Temasek Life Sciences Laboratory, The National University of Singapore
"Mechanisms governing cellular asymmetry and termination of cytokinesis"
Supported by the The Laura and Arthur Colwin Endowed Summer Research Fellowship Fund and the Spiegel Summer Research Fellowship

Shimshon Belkin, The Hebrew University
"Molecular Biogeography of the Microbial Phyllosphere Community of Tamarix"
Supported by the Gruss Lipper Family Foundation Faculty Research Award
Christopher Berger, University of Vermont
“Tau Regulation of Kinesin Motility during Axonal Transport”
Supported by the Erik B. Fries Endowed Fellowship Fund and the Laura and
Arthur Colwin Endowed Summer Research Fellowship Fund

Ona Bloom, The Feinstein Institute for Medical Research
“Gene expression analysis in lamprey after spinal cord injury and during
regeneration”
Supported by the Charles Evans Foundation Research Award

Joseph Buxbaum, Mount Sinai School of Medicine
“Gene expression analysis in lamprey after spinal cord injury and during
regeneration”
Supported by the Charles Evans Foundation Research Award

Robyn Crook, University of Texas, Houston
“Behavioural effects of peripheral injury in Loligo pealei”
Supported by the Baxter Postdoctoral Fellowship Fund and the Frederik B. and
Betsy G. Bang Fellowship Fund

Heather Eisthen, Michigan State University
“Context-dependent modulation in the vertebrate olfactory epithelium”
Supported by the Ann E. Kammer Memorial Fellowship Fund and the Laura and
Arthur Colwin Endowed Summer Research Fellowship Fund

Christine Field, Harvard Medical School
“Organization of syncytia by microtubules”
Supported by the MBL Associates Research Award (Field)

Robert Fischer, National Heart, Lung and Blood Institute, National Institutes of
Health
“Cytoskeletal control of cell motility and angiogenesis in zebrafish development”
Supported by The Laura and Arthur Colwin Endowed Summer Research Fellowship Fund

Amy Gladfelter, Dartmouth College
“Organization of syncytia by microtubules”
Supported by the Lucy B. Lemann Fellowship Fund and the Laura and Arthur
Colwin Endowed Summer Research Fellowship Fund (Gladfelter)

William N. Green, University of Chicago
“Structure and trafficking of AMPA-type glutamate receptors”
Supported by the Stephen W. Kuffler Fellowship Fund and the Laura and Arthur
Colwin Endowed Summer Research Fellowship Fund

Alecia Gross, University of Alabama – Birmingham
“In vivo monitoring of rhodopsin mutant trafficking”
Supported by the Plum Foundation, John E. Dowling Fellowship and the H. Keffler
Hartline and Edward F. MacNichol, Jr. Fellowship Fund

Paul Katz, Georgia State University
“Neurophysiology of homologous neurons in sea slugs”
Supported by the Charles Evans Foundation Research Award

James Knierim, Johns Hopkins University
“Thalamic and cortical inputs to the hippocampus: how local and global cues
influence hippocampal representations of space”
Supported by the Charles Evans Foundation Research Award and the M.G.F.
Fuortes Fellowship Fund

Hans Laufer, University of Connecticut
“Receptors of alkyphenols affecting metamorphosis in lobsters”
Supported by the John M. Arnold Award

John Lisman, Brandeis University
“Visualization of signaling cascade in single synapsis”
Supported by Albert and Ellen Grass MBL Faculty Research Award

Dannel McCollum, University of Massachusetts Medical School
“Mechanisms governing cellular asymmetry and termination of cytokinesis”
Supported by the Laura and Arthur Colwin Endowed Summer Research Fellowship Fund and the Evelyn and the Spiegel Summer Research Fellowship
Robert Malchow, University of Illinois at Chicago  
“Multisensory integration in sharks”  
Supported by the Laura and Arthur Colwin Endowed Summer Research Fellowship Fund

Shalin Mehta, National University of Singapore  
“Elucidating quantitative behaviour of phase and birefringence imaging methods with accurate models and test targets”  
Supported by the Robert Day Allen Fellowship Fund and the Laura and Arthur Colwin Endowed Summer Research Fellowship Fund

Allen Mensinger, University of Minnesota – Duluth  
“Multisensory integration in sharks”  
The Laura and Arthur Colwin Endowed Summer Research Fellowship Fund

Timothy Mitchison, Harvard Medical School  
“Microtubule nucleation in axons”  
Supported by Charles Evans Foundation Research Award

Johanna Montgomery, University of Auckland, New Zealand  
“Regulation of glutamate receptor subunit composition and targeting”  
Supported by the Herbert W. Rand Fellowship and the Laura and Arthur Colwin Endowed Summer Research Fellowship Fund

Paul Selvin, University of Illinois  
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MBL At-A-Glance

The Marine Biological Laboratory (MBL) is dedicated to scientific discovery and improving the human condition through research and education in biology, biomedicine, and environmental science. Founded in Woods Hole, Massachusetts in 1888, the MBL is a private, nonprofit corporation.

Leadership
Chairman of the Board of Trustees
John W. Rowe

President and Director
Gary G. Borisy

Speaker of the Corporation
Joan V. Ruderman

Scientists and affiliated staff
A corps of more than 270 scientists and support personnel pursue research year-round. The staff is joined each year by more than 400 visiting scientists, summer staff, and research associates from hundreds of institutions around the world. The MBL Corporation has 436 members.

Award-winning Science
Among the scientists with a significant affiliation with the MBL (scientists, course faculty, and students) are 54 Nobel Prize winners (since 1929); 118 Howard Hughes Medical Institute investigators, early career scientists, international researchers, and professors (since 1960); 196 Members of the National Academy of Sciences (since 1960); and 171 Members of the American Academy of Arts and Sciences (since 1960).

Major Programs and Research Areas

Ecosystems Center:
Ecosystems processes, biogeochemistry, and climate change

Josephine Bay Paul Center for Comparative Molecular Biology & Evolution:
Microbial ecology; genetics and metagenomics; molecular evolution

Eugene Bell Center for Regenerative Biology and Tissue Engineering:
Cell, developmental, and regenerative biology; tissue engineering and regeneration

Center for Library and Informatics:
Biodiversity and biomedical informatics; Encyclopedia of Life; MBLWHOI Library

Cellular Dynamics Program:
Microscopy, imaging and cellular dynamics; cellular physiology and biocurrents; biosensors

Whitman Center for Research and Discovery:
Collaborative research by leading scientists from around the world

Other Research Programs:
Scientific aquaculture; behavioral ecology; sensory physiology; biological basis of camouflage

Scientific Partnerships
The Brown-MBL Partnership fosters research collaborations between scientists from the MBL and Brown University, and includes undergraduate and graduate training, a joint graduate program, and training grants, and collaborative research programs.

The Woods Hole Consortium is a research and educational alliance between the MBL, Woods Hole Oceanographic Institution, and Woods Hole Research Center, focusing its joint initiatives on the interlocking issues of climate change, ecosystems health, and human well-being.

The Encyclopedia of Life Consortium is dedicated to creating a Web page for all 1.9 million named species of animals, plants, and other life forms on Earth. The consortium includes the MBL, the Field Museum of Natural History, Harvard University, Missouri Botanical Garden, Smithsonian Institution, and Biodiversity Heritage Library.

Resources
The MBLWHOI Library houses one of the world’s foremost print and electronic literature collections in the biological, biomedical, ecological, and oceanographic sciences.

The W. M. Keck Ecological and Evolutionary Genetics Facility is a high-throughput DNA template production and
CONFERENCES
The MBL hosts scientific meetings, conferences, and departmental retreats, accommodating more than 3,500 participants from around the world.

EDUCATIONAL PROGRAMS

MBL Discovery Courses: 21 courses providing advanced, laboratory-based research training in fields such as cellular physiology, embryology, neurobiology, and microbiology, including 477 students from 297 institutions and 35 countries (in 2010); and faculty, staff, and lecturers from 249 institutions and 39 countries.

“K through forever” educational programs ranging from K-12 teacher training, undergraduate education and independent research, graduate training, the Brown-MBL Graduate Program in Biological and Environmental Sciences, postdoctoral and journalist training, and community continuing education programs.

The Marine Resources Center is an advanced facility for maintaining, culturing, and providing aquatic organisms essential to biological, biomedical, and ecological research.

The Biological Bulletin is a peer-reviewed, trans-disciplinary, international journal publishing outstanding experimental research on a wide range of organisms and biological topics, with an emphasis on marine models.

2010 FINANCES

Operating Budget: $44 million (52% government grants and contracts; 20% nonfederal grants and contracts; 5% contributions; 6% endowment earnings; 17% other)

Net Assets: $112 million

Endowment: $59 million