

The Jane Coffin Childs

MEMORIAL FUND FOR
MEDICAL RESEARCH

In This Issue

- 1 Where Are They Now?
- 3 Director's Corner
- 4 2009 Fellows Awarded
- 5 A Tribute to Fred Richards
- 6 New Board Members
- 8 The 2009 Retreat

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Where Are They Now?

After completing their postdoctoral research, JCC fellows embark on new and varied career adventures. Here we catch up with five former fellows, chosen to represent a cross-section of interests and career paths.

Margaret Gardel

Many cells can move and migrate. Epithelial cells shift to repair wounds. White blood cells crawl along vessel walls to reach infection sites. Embryonic cells properly orient themselves during development.



But movement can go awry, and irregular cell mechanics have been implicated in asthma, cardiac arrhythmia, and cancer metastasis. Disease can also affect the rigidity of cells.

Margaret Gardel, Assistant Professor of Physics at the University of Chicago, studies how cells sense and generate tension during migration and adhesion. Her focus is the cytoskeleton, a dynamic network of more than 100 proteins that provides a viscoelastic scaffold

for structure and movement. Right now, she is identifying how the cytoskeleton remodels actin bundles while generating tension on an extracellular matrix.

Gardel studied physics at Brown and then researched the elasticity of F-actin networks as a graduate student with David Weitz at Harvard University. As a physics postdoctoral fellow at MIT, Gardel made the difficult decision to leave her position, apply for a JCC fellowship, and follow her intellectual curiosity to Clare Waterman's lab, which was then at Scripps Research Institute. There, she honed her ability to study the cytoskeleton with quantitative fluorescent imaging techniques. JCC funding allowed her to make the switch. "It was a bit scary jumping to a cell biology lab, but I felt certain of the direction I was going in," Gardel says.

Now, she combines her passions for soft condensed matter physics and molecular cell biology. Since joining the University of Chicago faculty in 2007, Gardel received the NIH Director's Pioneer Award, the Lucille Packard Fellowship, and the Alfred P. Sloan Fellowship.



Fabiola Rivas

Fabiola Rivas explored several very different types of research before finding her niche at the prominent journal, *Cell*. As an undergraduate at Lafayette College, she helped an English professor edit a series of Jonathan Swift poems and, in a chemistry lab, developed methods to evaluate chemical changes in parasitized mice. Then, after studying the regulation of T cell activation as a graduate student with Thomas Gajewski at the University of Chicago, she earned a JCC fellowship to work on RNAi gene activation with Gregory Hannon at Cold Spring Harbor.

These experiences typify her broad interests, and today Rivas oversees the review process for research papers submitted by

CONTINUED FROM PAGE 1

scientists as a manuscript editor at *Cell*. She chooses papers to send out for review, selects reviewers, evaluates reviewer comments, invites resubmissions, and accepts or declines papers for publication.

"Many people think that you have to be a good writer to be a good editor," says Rivas, who joined the *Cell* editorial team in 2007. But the position is more about decision-making, maintaining professionalism, keeping a broad perspective, and identifying cutting-edge research.

"Being involved in the critical review process offers a chance to be constantly challenged by interesting scientific questions," Rivas says. "It's a privilege to see what experts in the field think about different scientific advances and controversies."

Clint Spiegel

Given his interests in research and teaching, Clint Spiegel says it is not surprising that he landed at a primarily undergraduate institution, where he can divide his time equally between the two. He joined the faculty of Western Washington University's Department of Chemistry in 2007, after completing his JCC fellowship in the structure and function of ribosome translocation with Harry Noller at the University of California, Santa Cruz.



Spiegel's current research focuses on how transfer RNAs move through the *E. coli* 70S ribosome during each step of translation and how translation factors interact with ribosomal RNA. He is also working to use short RNA strands to disrupt a coagulation cofactor implicated in harmful blood clots.

A group of eight to ten undergraduates and one Masters student keeps Spiegel's lab humming with activity. Students spend two or three years in the lab, earning course credit throughout. Although the University has no Ph.D. students, "NIH- and NSF-funded research is the norm, not the exception," Spiegel explains.

"All the great professors I had as an undergraduate sparked my interest in science," Spiegel says. At Oregon State University, he knew professors by name and worked in two labs. He then studied the structural and mechanistic aspects of a blood coagulation factor with Barry Stoddard at the Fred Hutchinson Cancer Research Center.

Now, he enjoys helping students in the early stages of their careers. "Being a mentor is very rewarding," Spiegel says.

Eric Roche

Chronic wounds—from diabetic foot ulcers to bed sores—affect millions of Americans, but the complexity of healing makes prevention and treatment tricky.

Eric Roche, Principal Research Scientist at HealthPoint, Ltd, studies how bacterial biofilms affect wound healing. Healthpoint, based in Houston Texas, develops products for the treatment of diseased and traumatized skin.

"There are many opportunities to raise the quality of



science in wound care," Roche says, explaining that wound healing has historically been a type of scientific backwater, the realm of bandage companies and treatments based on anecdotal evidence. Potential innovations could include new antimicrobials and external protein-sugar matrices to jumpstart healing.

Roche earned his B.A. in Chemistry at Rice University in 1993, and then went on to study translation quality control by tmRNA with Bob Sauer at MIT. As a JCC fellow at Chris T. Walsh's lab at Harvard Medical School, he characterized catalytic domains of large enzymatic assembly lines and developed a genetic system to dissect protein-protein interactions. Before joining HealthPoint in 2006, he worked at the start-up Cumbre Pharmaceuticals, where he was part of a team that discovered a novel antibiotic, now in Phase I trials, for implant-related biofilm infections.

Roche enjoys research that is directly related to improving someone's life. "I think a lot of academics are turned off by industry limitations, business factors, and regulations. But, to me, those are interesting problems to overcome."

Arun Radhakrishnan

Cholesterol is a well-known culprit in heart disease, but it is also a crucial component of

cell membranes, maintaining permeability and flexibility.

"Cholesterol causes problems because most cells can't break it down," says Arun Radhakrishnan, Assistant Professor of Biochemistry at Cornell University Weill Medical College. Cells regulate both overall cholesterol content and cholesterol distribution among the membranes of each organelle, but the details behind this regulation and distribution are largely unknown. This is the focus of Radhakrishnan's research program.

Cells deal with excess cholesterol in part by pumping it out of the cell with an ATP-binding cassette transporter known as ABCA1. Currently, Radhakrishnan is purifying ABCA1 and seeking to understand how it is regulated.



Radhakrishnan joined the Cornell faculty in September 2008 and his current work continues a longstanding interest in cholesterol. As a JCC fellow at the University of Texas Southwestern Medical Center, he studied the molecular mechanisms underlying cholesterol homeostasis with Michael Brown and Joseph Goldstein. For his graduate work with Harden McConnell at Stanford, he focused on the organization and chemical activity of cholesterol in model membranes.

"Cholesterol has been a common thread throughout my training, and this position offered me an opportunity to combine my graduate and post doc experiences," he says. *

DIRECTOR'S CORNER

HHMI to the Rescue



Like so many other private funding sources for biomedical sciences, the Jane Coffin Childs endowment took a substantial hit in the stock market meltdown. Our fund declined about 25 percent, which means that we were looking at ten fewer new fellows considering we would not cut current fellows. In addition, Merck Corp., which has provided funds for one new fellow each year, has now withdrawn support, at least for the time being, as they consider their entire program of extramural funding. Thus, without any additional outside funding, we faced the prospect of only ten new fellows this year, substantially below our high point of 30 new fellows in 2007.

Fortunately, two years ago the Howard Hughes Medical Institute (HHMI) agreed to fund four new fellows each year in the four most selective private postdoctoral fellowship agencies (Helen Hay Whitney, Damon Runyon-Walter Winchell, Life Science Research Foundation as well as the JCC). And in a complete surprise, the new President of HHMI, Robert Tjian, as one of his first official acts, doubled this allocation. Thanks to HHMI and to continuing support from the Genentech Foundation, we were able to appoint 18 new fellows in our May meetings of the Board of Scientific Advisors and Managers. We are grateful to Tjian and to HHMI for their generosity.

On a sad note, we mark the passing of a great scientist, colleague and longtime Scientific Director of the JCC, Fred Richards (see page 5). I recall the first time I met Fred at a JCC symposium in 1983. He cared deeply about this program, thus his devotion over a fifteen-year career as Director and an additional ten years on the Board of Managers. We honor his memory with our first Fred Richards-Jane Coffin Childs Fellowship awarded to Elizabeth Read in the laboratory of Arup Chakraborty at MIT.

On a more upbeat note, former Scientific Director Joan Steitz has donated a portion of her recent Albany Prize winnings for the creation of an endowment to assist our female fellows who have special child care needs (see page 8). Through her generosity, Joan continues to demonstrate her devotion to the Fund and its mission in support of postdoctoral fellows. I also gratefully acknowledge the essential contributions of Graham Walker, who this year completed his eight years of service as a member of the Board of Scientific Advisors. Although we will miss Graham's irrepressible good cheer, we are excited to welcome Bonnie Bassler of Princeton University and Cori Bargmann of The Rockefeller University who officially join the Board this year. *

— Randy Schekman, Director of the Board of Scientific Advisers

Fellows Awarded Spring 2009

- **Eftychia (Effie) Apostolou**
Differentiation hierarchy and reprogramming potential in hematopoietic cells with Dr. Konrad Hochedlinger, Massachusetts General Hospital, Cancer Center and Center for Regenerative Medicine, Harvard Stem Cell Institute, Cambridge, Massachusetts
- **Joshua C. Black**
Histone lysine trimethylases regulate cell cycle progression with Dr. Johnathan Whetstine, Massachusetts General Hospital Cancer Center, Charlestown, Massachusetts
- **Bryan W. Davies**
Mapping virulence regulatory and signaling networks in *Vibrio cholera*, with Dr. John J. Mekalanos, Department of Microbiology and Molecular Genetics, Harvard Medical School, Boston, Massachusetts
- **Andrew E. H. Elia (HHMI Fellow)**
Harnessing lysine acetylation and methylation in the DNA damage response, with Dr. Stephen J. Elledge, Department of Genetics, Harvard Medical School, Boston, Massachusetts
- **Laura A. B. Elias**
ATP-dependent chromatin remodeling in dendritic morphogenesis and targeting, with Dr. Gerald R. Crabtree, Department of Pathology, Stanford University, Stanford, California
- **Liangcai Gu (HHMI Fellow)**
Developing a cell-free platform for biosynthesis and metabolic engineering of cancer therapeutics, with Dr. George M. Church, Department of Genetics and Biophysics, Harvard Medical School, Boston, Massachusetts
- **Hans-Martin Herz**
Histone H3K79 methylation in development and cancer pathogenesis with Dr. Ali Shilatifard, Stowers Institute for Medical Research, Kansas City, Missouri
- **Suzanne K. L. Komili (HHMI Fellow)**
Investigation of the role of chromatin dynamics in programming gene expression noise, with Dr. Hiten Madhani, Department of Biochemistry and Biophysics, University of California, San Francisco, California
- **Oliver W. Liu (HHMI Fellow)**
Immunoglobulin-domain proteins and synaptic specificity, with Dr. Kang Shen, Department of Biology, Stanford University, Stanford, California
- **Vicki P. Losick**
Drosophila melanogaster spermatheca: a new model for the prostate gland, with Dr. Allan C. Spradling, Department of Embryology, Carnegie Institute, Baltimore, Maryland
- **David G. Mets (HHMI Fellow)**
Identification of genetic constituents of learning in songbirds through a new system for molecular marker development, with Dr. Michael Brainard, Department of Physiology, University of California, San Francisco, California
- **Elizabeth Read (Frederic M. Richards Fellow)**
Understanding the origin of immunodominance in mouse models and humans with diverse host genetics, with Dr. Arup Chakraborty, Department of Chemical Engineering, Massachusetts Institute of Technology, Cambridge, Massachusetts
- **Edmund C. Schwartz**
Development of optogenetic tools to probe the formation of social memory, with Dr. Richard Axel, Department of Neuroscience, Columbia University, New York, New York
- **Frederick J. Tan (HHMI Fellow)**
A genomic study of homologous recombination between repetitive elements with Douglas Koshland, Department of Embryology, Carnegie Institute, Baltimore, Maryland
- **Xhiping Wang**
Characterization of new axon regeneration regulation pathways, with Dr. Yishi Jin, Division of Biological Sciences, University of California, San Diego, California
- **Zeba Wunderlich**
Connecting sequence divergence to quantitative phenotype differences in *Drosophila*, with Dr. Angela Depace, Department of Systems Biology, Harvard Medical School, Boston, Massachusetts
- **Oh Kyu Yoon (HHMI Fellow)**
Genome-wide identification of regulatory non-coding RNAs in *S. cerevisiae*, with Dr. Rachel B. Brem, Department of Molecular and Cell Biology, University of California, Berkeley, California
- **Roberto Zoncu (HHMI Fellow)**
Not just a recycle bin: the role of lysosomes in nutrient sensing by the mammalian target of rapamycin, with Dr. David Sabatini, Sabatini Laboratory, Whitehead Institute of Biomedical Research, Cambridge, Massachusetts

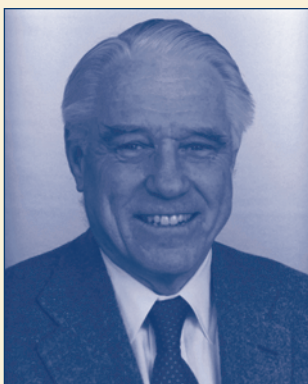
Fellowship Application Information

The Fund awards fellowships to qualified individuals for fulltime postdoctoral research on cancer and related subject areas. Applicants should not have more than one year of postdoctoral experience and should hold either an M.D. or a Ph.D. in the field in which they propose to study. In some cases, evidence of equivalent training and experience will be accepted. The appointment normally lasts three years. The basic stipend for the 2010 recipients will be \$43,000 the first year, \$44,000 the second, and \$46,000 the third. **Applications for 2010 must be submitted electronically and received by Monday, February 1, 2010.**

For details, please visit the Fund's website at www.jccfund.org

A Tribute to Fred Richards

Fred Richards, Sterling Professor Emeritus of Molecular Biophysics & Biochemistry at Yale, JCC Scientific Director from 1976 until 1991, and 10-year member of the Board of Managers, passed away at age 83 on January 11, 2009. His contributions to science and community are many, and he will be missed.



In the 1930s, Frederic Richards was a kid with a chemistry set, unaware of the multilayered scientific career awaiting him in the future, one that would shape our understanding of protein structure and function, forge connections between the fields of biochemistry and biophysics, and influence the establishment of open scientific databanks.

The chemistry set was a gift from Richards' older sister, Marianna, and it was full of smoke, smells, and even explosions, all of which sparked his interest in science. Marianna studied biochemistry with Hans Clarke at Columbia and gave her younger brother a peak at formal science by showing him around the lab.

Richards' passion for science was further stoked as a student at Philips Exeter Academy, where he and his roommate had the run of the school's laboratories after hours. There, he created a differential thermometer by teaching himself glassblowing, unsuccessfully attempted to build a torsion

pendulum with 100-pound cannonballs, and ground, polished, and silvered a parabolic mirror for a reflecting telescope.

Richards went on to earn a B.S. in Chemistry from MIT and then, on the advice of his sister and without consideration for any other schools, attended Harvard Medical School for graduate studies with Barbara Low. He later travelled to Denmark to work with Kaj Linderstrøm-Lang at the Carlsberg Laboratory in Copenhagen.

In 1955, Richards began his career at Yale and soon made a landmark discovery. He showed that two fragments of the protein pancreatic ribonuclease A were inactive alone but regained enzymatic activity once mixed together again. He also chemically modified a component of the protein to determine the relationship between its amino acid sequence and its thermodynamic stability. The results provided the first evidence that a protein's amino acid sequence determined its three dimensional structure. The work also showed that proteins were discrete units, contrary to the prevailing view that they were amorphous and colloidal.

Richards' scientific contributions continued to accumulate. Along with Harold Wyckoff, Richards solved the structure of ribonuclease A, which was among the world's first enzyme structures determined, and showed that the protein remained active within the crystal, settling another debate

at the time. He also developed computational methods to study packing within proteins and to calculate protein surface areas.

Richards worked on protein structure well before molecular graphics software could analyze X-ray data. Models were built by hand with brass rods to match electron density contour maps obtained by X-ray crystallography. To improve on this process, Richards designed a device affectionately known as Fred's Folly and formally called the Richards Optical Comparator, which was essentially a box with lights and a one-way mirror. Using it, researchers could superimpose a portion of an electron density map with the physical wire model as they built it. Scientists worldwide adopted the device, which only lost favor once computer software became available.

In addition to making great scientific strides that earned him numerous awards, Richards also devoted time to the betterment of the scientific community. It is said that he fostered a fun atmosphere within his lab, and he was praised for his willingness to mentor women and minorities in the sciences. He formed Yale's Department of Molecular Biophysics and Biochemistry, served as its chair, and hired many researchers that later went on to become members of the National Academy of Sciences. He, along with Harold Wyckoff, Don Engelman, Peter Moore, and Tom Steitz, created a core X-ray crystallography facility at

Yale, which became a destination for researchers attempting to solve protein structures.

Richards also ardently supported the first Protein Data Bank, established in the early 1970s as a repository for macromolecular structures. He led a group that encouraged journal editors to require authors to submit their data to the bank and convinced the NIH to require funded researchers to do the same. The databank aided countless researchers.

Despite his countless professional pursuits, Richards still managed to father two daughters and a son, sail across the Atlantic with his wife, volunteer for the National Ski Patrol, plow snow from the frozen pond behind his house for neighborhood hockey games, lead kids in an attempt to build a floating tire breakwater in the waters off Little Harbor, and build barges and cranes to move his boats and moorings.

In 1976, Richards was asked to serve as Director of the JCC. He later wrote, "I could not resist giving it a try," adding that the hundreds of fellows supported by the Fund have become major players in biomedical research around the world. He was Director for 15 years and a member of the Board of Managers for 10. Reflecting on his time with the organization, he wrote, "My association with the Childs Fund was both pleasurable and worthwhile." *

JCC Welcomes New Board Members

The JCC Fund is pleased to welcome new members to its Board of Scientific Advisors and Board of Managers this year. Bonnie Bassler, molecular biologist at Princeton, and Cori Bargmann, neurobiologist at The Rockefeller University, join the BSA. Libby Borden, formerly of Garland Publishing, and Brett Hellerman, of Wood Creek Capital Management, join the Board of Managers.

Bonnie Bassler

Bonnie Bassler, HHMI Investigator and Professor of Microbiology at Princeton University, has spent her career studying how bacteria engage in collective behaviors, such as launching a virulent attack. Before Bassler's pioneering work, such behaviors were previously thought to exist only in multicellular organisms.



Bassler discovered that the bioluminescent marine bacterium *Vibrio harveyi* uses molecules known as autoinducers to assess their density and collectively regulate gene expression, a process known as quorum sensing. One such autoinducer is common among hundreds of bacteria, suggesting that interspecies communication is universal.

"During the 1990s, we learned how quorum sensing works," Bassler says. "Now, we're learning how to manipulate these conversations." In 2007, Bassler suppressed virulence in cholera bacteria using a synthetic version of an autoinducer. Her research group is continuing to develop molecules to disrupt bacterial conversations, control virulence, and act as antimicrobial drugs.

Bassler is looking forward to serving on the JCC Board of Scientific Advisors. "It's inspirational to read proposals from highly motivated young scientists," she says. Bassler never had a postdoctoral fellowship herself, and she started her own lab with a NSF Early Career Development Grant in 1995. "NSF took a chance on me and I'm incredibly indebted," she says, adding that taking a chance on promising postdoctoral candidates is especially important in this economic climate.

Bassler earned her Bachelor of Science degree from the University of California Davis and then pursued graduate study with Saul Roseman at The Johns Hopkins University. She was honored with a 2002 MacArthur Foundation Fellowship, was named 2004 Inventor of the Year by the New York Intellectual Property Law Association, and became a member of the National Academy of Sciences in 2006.

Cori Bargmann

Cori Bargmann, HHMI Investigator and Torsten N. Wiesel Professor at the Rockefeller University, studies how neural circuits develop, identifies the genes and neural pathways for navigation, and determines how sensory inputs regulate those circuits in the nematode *C. elegans*.



Bargmann's work on the worm began during her postdoctoral days in Nobel Laureate Robert Horvitz's lab at MIT, where she documented some of the first evidence that *C. elegans* had a sense of smell capable of detecting hundreds of chemicals.

Since then, Bargmann discovered a molecule that directs neurons to form proper connections during early development, found a gene that determines whether worms eat alone or in groups, learned that worms are capable of learning and recalling food that makes them ill, and showed how odor-sensing neurons activate neurons that control crawling and turning, suggesting that short-lived sensory cues can generate long-lived reactions.

Bargmann is a member of the National Academy of Sciences and the American Academy of Arts and Sciences. She has been honored with the National Academy of Sciences Richard Lounsbery Award, the Dargut and Milena Kemali Prize for Research in the Field of Basic and Clinical Neuroscience, the Takasago Prize for olfaction research, and the Columbia University W. Alden Spencer Award.

Libby Borden

Libby Borden, a New England native, joined the JCC Board of Managers last fall. She and her late husband Gavin owned and operated Garland Publishing, which published numerous science textbooks, including *Essentials of Cell Biology* and *Immunobiology*.



One world-renowned Garland title is *Molecular Biology of the Cell*, which was first printed more than 25 years ago. The book was originally conceived at a legendary meeting of potential authors at James Watson's home on Martha's Vineyard in the late 1970's. Now in its fifth edition, the book continues to be lauded for its readability, clear illustrations, and depth. Garland Publishing and the authors pioneered several innovations that current students take for granted in their textbooks, such as concept headings and copious visual aids.

"Gavin had editorial aplomb, and I was the steady one in the background," Libby says of their business partnership. She served as company

CONTINUED ON PAGE 7 . . .

2009

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treasurer and, after her husband passed away in 1991, president. Libby worked closely with scientist authors, who have said that she ran the company with humanity and style.

Since Libby sold the company to the Taylor & Francis Group in 1998, she has served on the Chairman's Commission of Conservation International and as a trustee of The Open Space Institute. She was also a trustee of the Glimmerglass Opera for nine years. Libby volunteers extensively in Norfolk and has hiked 500 miles of the Appalachian Trail.

Libby is looking forward to sharing her business expertise with the JCC Board of Managers. "Being involved with such dedicated people is rewarding," she says.

Brett Hellerman

Brett Hellerman, who joins the JCC Board of Managers this year, is CEO and CIO of Wood Creek Capital Management. Since he founded Wood Creek in 2005, Hellerman has supervised all investments made by the company, which specializes in providing institutional clients with alternative investment strategies outside the typical securities and commodities markets.

Serving on the JCC Board of Managers appeals to Hellerman's interest in health and desire to add value to a nonprofit organization. With his finance career based in New Haven and as a neighbor of the Childs family in Norfolk, this opportunity was ideal.



Hellerman joins the Board during economically tumultuous times. "Like every nonprofit, JCC assets are down and we face some challenges," he says. "But the JCC has managed through the financial crisis better than most."

Hellerman brings 25 years of experience in financial products to the Board. Before starting Wood Creek, he founded and served as CEO of Norfolk Management Group, an investment bank that designed and launched hedge funds for Merrill Lynch Asset Management, Massachusetts Financial Services, and many others. He also co-founded Clinton Group, Inc, a hedge fund with more than \$9 billion under management at its peak.

During the 1980s, Hellerman was a vice president in mortgage-backed securities at Greenwich Capital, a fixed income professional at First Boston and Morgan Stanley, and a legislative assistant in the US Senate. He earned his B.A. with honors in diplomatic history from the University of Pennsylvania.

Hellerman is currently also a board member of Konanda Pharma Partners, Anthem Music and Media Group, and Rosemount Capital Management. *

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- **Dr. Graham C. Walker**
Department of Biology
Massachusetts Institute of Technology
Cambridge, Massachusetts

JCC Now Offers Childcare Stipends

Thanks to the generosity of Dr. Joan Steitz, a former Director of the Board of Scientific Advisers, the Jane Coffin Childs Memorial Fund for Medical Research now has an Endowed Designated Fund intended to provide stipends for child care to women who are recipients of a Jane Coffin Childs postdoctoral fellowship.

All female Fellows of the Fund who are currently receiving funding and have children will be eligible to apply for the grant. The grant is based on need and will be distributed once a year to one recipient. The dollar amount will be determined each year.

Dr. Steitz has been a leader in her field and also a champion for women in science. This funding demonstrates her commitment to supporting women with children as they fulfill their scientific endeavors. *

The 2009 Retreat

Challenges in Biomedical Sciences: The Biology of Obesity

October 23–25, 2009

Interlaken Inn, Lakeville, Connecticut

HOSTED BY

Dr. Randy Schekman and Dr. Cynthia Kenyon

SPEAKERS

Jeffrey M. Friedman

Laboratory of Molecular Genetics
The Rockefeller University

Bruce Spiegelman

Department of Cell Biology
Dana Farber Cancer Institute

Jo Handelsman

Department of Industrial Systems
Engineering
University of Wisconsin – Madison

Joel Elmquist

Division of Hypothalamic Research
The University of Texas Southwestern
Medical Center at Dallas

Sherin Devaskar

Department of Molecular Cellular
& Integrative Physiology
University of California,
Los Angeles

Elissa Epel

Center for Health & Community
University of California,
San Francisco

Francesco Rubino

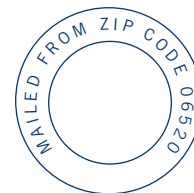
Director of Diabetes Surgery Chief
Gastrointestinal Metabolic Surgery
New York – Presbyterian Hospital
Weill Cornell Medical Center

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