

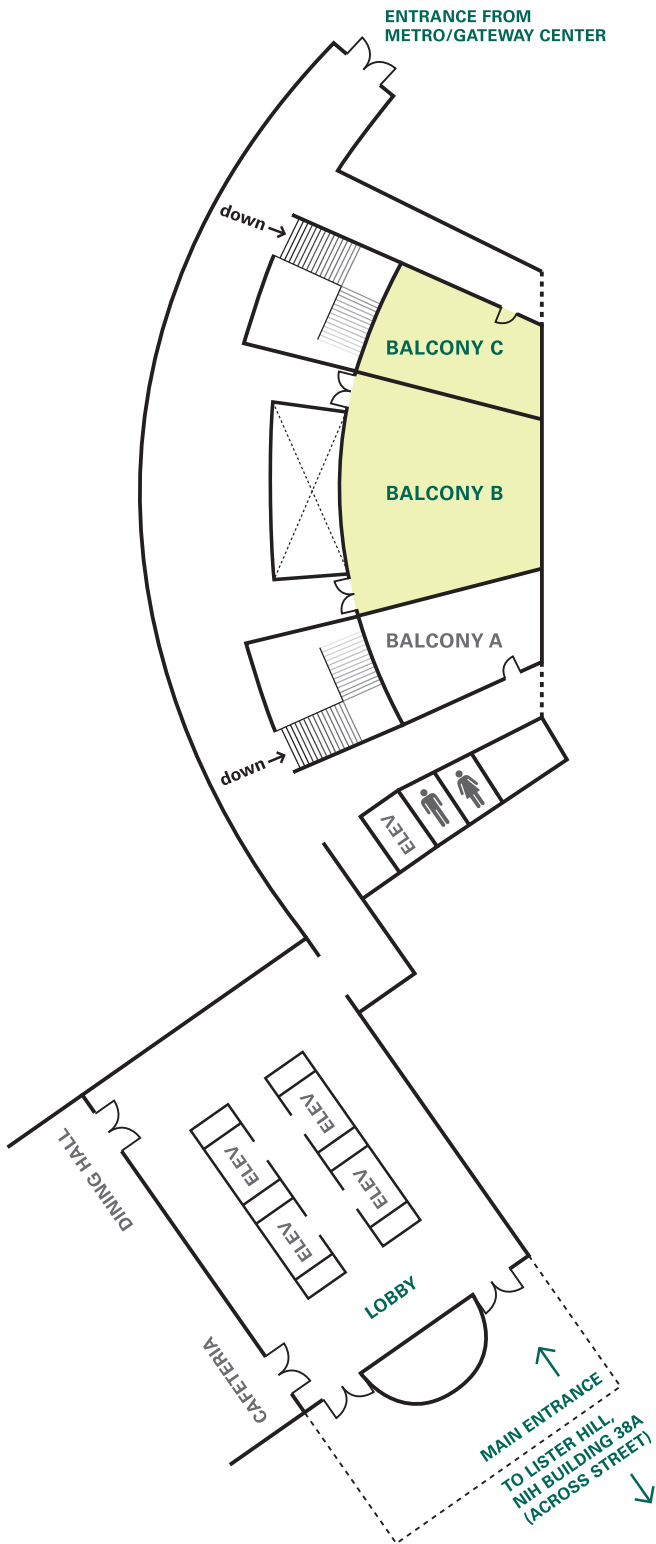
4TH ANNUAL

nih career symposium

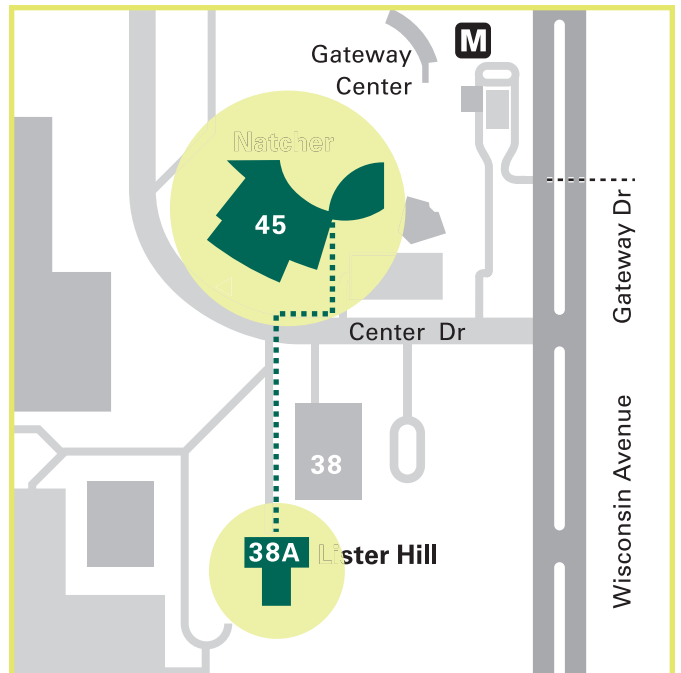
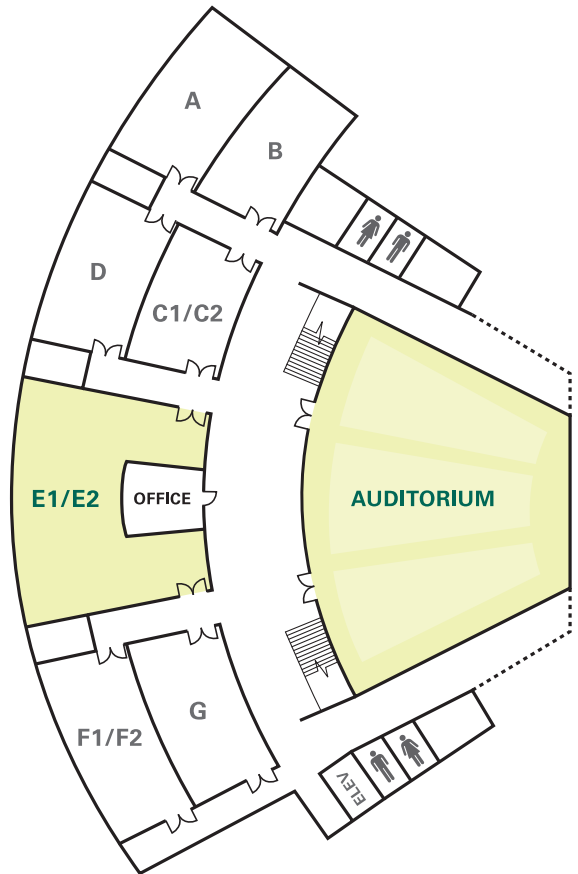
MAY 10, 2011

Building the Future

**NATCHER CONFERENCE CENTER
LEVEL 1 (ENTRY LEVEL)**



**NATCHER CONFERENCE CENTER
LOWER LEVEL**



LISTER HILL AUDITORIUM (NIH BUILDING 38A)

Lister Hill Auditorium is located on the first level of the Lister Hill Center / NIH Building 38A. From Natcher, cross Center Drive and take the entrance road to Lister Hill Center, located diagonally behind the National Library of Medicine.

agenda-at-a-glance

SESSION	TIME	BALCONY B	AUDITORIUM	ROOM E1/E2	BALCONY C	LISTER HILL* <small>* See map on opposite page</small>
Registration	7:30 AM–8:30 AM					
Welcome	8:30 AM	Sharon L. Milgram, PhD, Director, Office of Intramural Training & Education RUTH L. KIRSCHSTEIN AUDITORIUM				
Keynote	8:45 AM– 9:45 AM	Donna Shalala, PhD, President, University of Miami RUTH L. KIRSCHSTEIN AUDITORIUM				
Session 1	10:00 AM– 11:15 AM	Consulting Careers	Research in Industry	Life as a Junior Faculty Member	Career Options for Clinicians	NIH Careers Away from the Bench
Break	11:15 AM–11:30 AM					
Session 2	11:30 AM– 12:45 PM	Career Opportunities in Nonprofit Organizations	The Business of Science	Faculty Careers in Teaching- intensive Schools	Science Communication Careers	Federal Careers: Non-research Positions for PhDs
Lunch	12:45 PM– 1:45 PM	Networking Lunch (<i>Supported by Burroughs Wellcome Fund</i>)				
Session 3	1:45 PM– 3:00 PM	From Discovery to Startup	Research Careers (Non-Industry)	Faculty Careers in Research- intensive Schools	Careers in Science Education: Guiding K through Gray	Careers in Science Policy
Break	3:00 PM–3:15 PM					
Session 4: Skills	3:15 PM– 3:35 PM	Cover Letters	Navigating the US Job Search for Non-citizens	Social Media & Job Hunts	Finding a Postdoc	
	3:40 PM– 4:00 PM	Conflict Resolution	CV/resumes	Navigating an International Job Search	Leadership Opportunities at NIH	
	4:05 PM– 4:25 PM	Job search 101	Find Your Path	Interviewing	Networking	
Networking Event (Optional)	5:00 PM	Blackfinn Restaurant, 4901 Fairmont Avenue, Bethesda, MD				

welcome

Dear NIH Trainee,

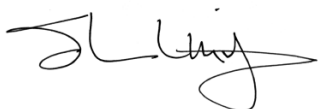
Welcome to the 4th Annual NIH Career Symposium for Graduate Students and Postdocs!

Throughout the day you will have the opportunity to meet with people successfully pursuing many different careers, enhance your professional skills through workshops, and network with scientists from across the country. We have worked hard to ensure that a wide variety of fields and educational backgrounds are represented and anticipate that, during the day's activities, you will find colleagues here who share your interests and ambitions. We encourage you to connect with the speakers today or in the future.

The economy has definitely been in the forefront of our minds over the past two years. Even in tight economic times, NIH fellows are successfully competing for jobs. It seems that every day there is a success story in our office, with job offers from academics, industry, government, non-profits and more. Many success stories are panelists today, and numerous of these NIH alumni have used the services of the OITE and within their Institute/Center. From the basics of deciding on a career path, networking and improving job documents to successful interviewing and job negotiation...we are here and ready to help as you prepare for the next step in your career. Make an appointment with a career counselor, come to a course on scientific writing, watch videos of past events and network with the over 600 members of the alumni database. Utilize our resources and information to build your career and shape your future.

We are delighted that you have taken another step in your career by attending this event and we look forward to working with you in the future.

Sincerely,



Sharon L. Milgram, PhD
Director, Office of Intramural Training & Education
Senior Investigator, National Heart Lung and Blood Institute
Adjunct Investigator, National Human Genome Research Institute

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detailed agenda

7:30 am Registration

8:30 am Plenary and Welcome

Donna E. Shalala, PhD President, University of Miami

10:00 am Session 1

LISTER HILL NIH Careers Away from the Bench

- Kevin W. Chang, PhD Senior Licensing and Patenting Manager, Office of Technology Transfer, OD/NIH
- Janet Cyr, PhD Program Officer, NIDCD/NIH
- Rita Devine-Ward, PhD Assistant Director for Science Administration, NINDS/NIH
- Sathasiva Kandasamy, PhD Scientific Review Officer, NICHD/NIH
- Ilene Karsch Mizrachi, PhD Staff Scientist, NCBI, NLM/NIH

BALCONY B Consulting Careers

- Laura Borland, PhD Associate, Booz Allen Hamilton
- Dervla Mellerick Dressler, PhD Owner, Science Word Doctor, LLC
- Nora Gardner, PhD Associate Principal, McKinsey & Company
- Claudia Munoz, PhD Consultant, Boston Consulting Group

E1/E2 Life as a Junior Faculty Member

- Brian D. Berman, MD, MS Assistant Professor, University of Colorado Denver School of Medicine
- G. Andrés Cisneros, PhD Assistant Professor, Wayne State University
- Michelle A. Mondoux, PhD Assistant Professor, College of the Holy Cross
- Elizabeth Rucks Moore, PhD Assistant Professor, Sanford School of Medicine, University of South Dakota
- Debra Silver, PhD Assistant Professor, Duke University Medical Center

AUDITORIUM Research in Industry

- Matthew Lee Cheever, PhD Scientist III, BD Diagnostics
- Christine Mione Kiefer, Ph.D. Scientist I, MedImmune
- Christopher MacLauchlin, PhD Manager, Drug Metabolism and Pharmacokinetics, GlaxoSmithKline
- Peter Mason, PhD Head, Microbial Molecular Biology, Novartis

BALCONY C Career Options for Clinicians

- Albert W. Dreisbach, MD Associate Professor of Medicine, Director of Nephrology Research, Department of Internal Medicine, University of Mississippi Medical Center
- Elizabeth M. Mutisya, MD Former Chief Medical Officer, Vice President, Solvay Pharmaceuticals
- Brian Oscar Porter, MD, PhD, MPH Medical Officer/Clinical Reviewer, Food and Drug Administration
- Stacy Suskauer, MD Director of the Brain Injury Program, Kennedy Krieger Institute; Assistant Professor, Johns Hopkins University School of Medicine
- Lauren V. Wood, MD Senior Clinical Investigator, Head, Clinical Trials Team, Center for Cancer Research, NCI/NIH

11:15 am Break

detailed agenda

11:30 am Session 2

E1/E2 Faculty Careers in Teaching-intensive Schools

- Nathalie Dautin, PhD Assistant Professor, The Catholic University of America
- Terrie Rife, PhD Associate Professor, James Madison University
- Robert Rosenberg, PhD. Professor, Earlham College
- James A. Saunders, PhD Professor, Towson University

BALCONY B Career Opportunities in Nonprofit Organizations

- Sharmila Banerjee-Basu, PhD President and Chief Scientific Officer, MindSpec, Inc.
- Ami Shah Brown, PhD, MPH Director, Vaccine Operations, Sabin Vaccine Institute
- Albert Hwa, PhD Scientific Program Manager, Juvenile Diabetes Research Foundation
- Nicole Kresge, PhD Editor, ASBMB Today, The American Society for Biochemistry and
Molecular Biology
- Debra Speert, PhD Public Information Manager, Society for Neuroscience

BALCONY C Science Communication Careers

- Victoria Aranda, PhD Associate Editor, Nature Medicine, Nature Publishing Group
- Zina Johnson, PhD Medical Science Liaison, Inspire Pharmaceuticals
- Cheryl Kassed, PHD, MS, MSPH Chief of Scientific Operations, Health Analytics, LLC
- Larry R. Miller, PhD Director Communications, International Partnership for Microbicides
- Alisa Schaefer, PhD. Advisor for Global Outreach, NCCR/NIH

LISTER HILL Federal Careers: Non-research Positions for PhDs

- James M. Dahlhamer, PhD Survey Statistician, National Center for Health Statistics
- Roycelynn Mentor-Marcel, PhD, MPH. Biomedical Life Scientist, SAIC in support of the DOD Congressionally
Directed Medical Research Program
- Tamra Meyer, PhD, MPH. Epidemiologist, Pharmacovigilance Center, Office of the Surgeon General,
Department of Army
- Amber D. Steele, PhD. Primary Examiner, United States Patent and Trademark Office
- Shayla West-Barnette, PhD Consumer Safety Officer, U.S. Food and Drug Administration

AUDITORIUM The Business of Science

- Raymond (Ray) K. Blanchard, PhD Associate Director, R&D Project Management, QIAGEN Inc.
- Jessica Blumstein, PhD. Senior Manager, Strategic Pricing and Contracting, Genentech
- Jhilya F. Mayas, PhD Scientific Supervisor, Ogilvy Healthworld Medical Education
- John Verburg, PhD Senior Molecular Biology Technology Specialist, Life Technologies

12:45 pm Networking Lunch (Supported by Burroughs Wellcome Fund)

detailed agenda

Session 4 – Skills

3:15 pm

BALCONY B **Cover Letters**

AUDITORIUM **Navigating the U.S. Job Search for Non-citizens**

E1/E2 **Social Media & Job Hunts**

BALCONY C **Finding a Postdoc**

3:40 pm

BALCONY B **Conflict Resolution**

AUDITORIUM **CV/Resumes**

E1/E2 **Navigating an International Job Search**

BALCONY C **Leadership Opportunities at NIH**

4:05 pm

BALCONY B **Job Search 101**

AUDITORIUM **Find Your Path**

E1/E2 **Interviewing**

BALCONY C **Networking**

5:00 pm **Networking Event (optional)**

BlackFinn Restaurant, 4901 Fairmont Avenue, Bethesda, MD

panel descriptions

NON-RESEARCH/NON-BUSINESS CAREERS

Federal Careers: Non-research Positions for PhDs

The federal government offers a wide variety of opportunities to apply your scientific expertise away from the research bench. Scientists are needed to review patent applications, monitor drug safety, track health statistics, administer grants, develop scientific policy, and communicate on a variety of health and policy issues. With over two million employees, the federal government offers opportunities that encompass almost the entire spectrum of non-research careers for PhDs. Panelists in this session represent some of the career paths possible within different federal government agencies, including the CDC, DoD, FDA, NSF and USPTO. Please note that the majority of these positions are only open to U.S. citizens.

NIH Careers Away from the Bench

The NIH is the world's largest biomedical research institution and employs scientists in a wide range of non-research positions including: technology transfer, database maintenance, grant administration and review, education, science policy, and communications. The panelists represent the variety of opportunities available to those interested in staying at the NIH. Please note that the majority of these positions are only open to U.S. citizens.

Careers in Science Education: Guiding K through Gray

An increasing emphasis is being placed both on the quality of science education and on improving science literacy. Science education offers an excellent opportunity for scientists to share their expertise inside or outside of the classroom. Science education also involves the management of educational programming, which provides guidance and support for the next generation of scientists. This panel includes experts from a broad spectrum of science education careers, ranging from K-12 teachers and post-secondary lecturers to managers of museum science programs and academic administrators.

Career Opportunities in Nonprofit Organizations

Nonprofit organizations, which include scientific societies, disease advocacy groups, and global health organizations, provide a way to utilize your science to benefit others. Career paths in nonprofit organizations vary widely depending on the structure and mission of the organization. Scientists commonly fill grant administration, research oversight, policy and various communications-oriented positions at nonprofits. Panelists reflect the diversity of careers, nonprofit organizations and the issues they address.

Careers in Science Policy

Scientists are helping to shape national and international public policy regarding health, research and biosecurity in government, nonprofits and corporations. This session highlights scientists who help develop policy and examines a cross-section of the job opportunities in the policy field. Panelists will describe the critical role that scientists play in influencing and developing science policy, how to transition from the bench to policy work, and what their jobs entail on a daily basis.

panel descriptions

RESEARCH CAREERS

Life as a Junior Faculty Member

Setting up a lab can be a daunting process and it requires much more than an interesting scientific hypothesis. This panel, composed of current assistant professors, will provide insight into the process of setting up a new lab. The panelists will discuss their experiences as junior faculty members as well as how to set priorities, identify and acquire resources, recruit and train personnel, and obtain funding.

Faculty Careers in Teaching-intensive Schools

Scientists passionate about both education and research are well-suited for faculty positions at institutions focused on undergraduate teaching. The panelists will address the unique expectations, requirements and challenges of balancing teaching and research at a teaching-intensive school. Topics will include how to successfully navigate the academic search process, everyday life, negotiating teaching load, and tenure.

Faculty Careers in Research-intensive Schools

The ability to focus on research leads many scientists to pursue positions at research-intensive schools. This panel features faculty from research-intensive institutions who will describe strategies in the academic search process and the skills required to become a top candidate. Panelists will discuss the application process, everyday life, negotiating the employment package, teaching and tenure requirements.

Research Careers (Non-Industry)

Numerous key positions outside the tenure-track permit their incumbents to conduct and/or support research. These include staff scientists, core facility managers, and research assistant professors. Panelists represent a sample of institutions that employ scientists in non-tenure track research positions including government, academic, and nonprofit organizations.

Research in Industry

At biotechnology and pharmaceutical companies, scientists can continue their experimental research with a focus on developing new therapeutic products. This panel includes representatives at different career stages and in a variety of industry roles. The panelists will discuss opportunities available in industry research, how industry differs from academia, and the proficiencies required to succeed in industry research.

BUSINESS/NON-BENCH CAREERS

Consulting Careers

Consulting is an appealing career path for scientists with business acumen and a desire to work with multiple clients in situations that change daily. The panel will showcase the variety of management, science and technology consultancy roles and will provide insight into the skills and competencies required to succeed in these positions. Panelists will discuss how they employ their scientific backgrounds to advise business leaders.

The Business of Science

Skills acquired in the laboratory are transferable to many rewarding business careers including sales, marketing, business development, and customer support. This panel features scientists employed in a variety of business-focused jobs in organizations ranging from small biotechnology firms to large pharmaceutical companies. The panelists will discuss the differences between small and large companies and the skills required to successfully transition from bench to business.

Science Communication Careers

Science communication careers play a critical role in explaining cutting edge scientific research to the general public, policymakers and other scientists. These careers encompass journal editing, medical writing, science exhibition in museums, science journalism and scientific media productions. The panel will discuss the wide range of communications-oriented career paths and how to acquire the necessary communications skills and experience.

From Discovery to Startup

The biotechnology start-up industry is growing rapidly and requires innovative scientists working in a variety of roles to bring a product to market. The complex process of developing a novel scientific idea into a profitable company requires not only entrepreneurial scientists, but patent attorneys, venture capitalists and investors. This panel will feature scientists who have made the transition into these different professional careers. Panelists include entrepreneurs who have launched their own businesses, patent review officers, and intellectual property attorneys.

Career Options for Clinicians

Physician scientists play important roles in all areas of scientific advancement, including industry, academia, and the private sector. Such professionals truly can shape the field of translational medicine, even away from the bedside or bench. Hear from individuals who have combined their expertise in medicine with other skills to impact research, global health and drug discovery. Panelists will also discuss how physician scientists can best transition into these fields and what awaits those who choose to do so.

SKILL BLITZES

These short sessions are designed to give you an overview of the skills required to mount a successful job search. These will be a fast pace, fun-filled way to end the day. Each session will be strictly limited to twenty minutes, with a five minute break. Presenters will give you the highlights of the topics, with ideas on how to follow up with additional resources. Speakers will be OITE staff. You will be able to choose three sessions from the following offerings:

COVER LETTERS

There are a few simple rules for a cover letter. Make this part of your job package shine.

CV/RESUMES

The top-ten highlights on your job search documents.

FIND YOUR PATH

Your dream job does exist. If you are still pondering what is next, come to map out a plan to determine your path.

INTERVIEWING

This session will help you to navigate the interview process.

JOB SEARCH 101

The job search has common threads. Find out where and how to search for your job.

LEADERSHIP OPPORTUNITIES AT NIH

You likely heard many speakers tell you to get leadership skills or other non-lab skills today. Gather information of how you can get these skills right here on campus.

NETWORKING AND INFORMATIONAL INTERVIEWS

You met some terrific people today (or missed their session as you went to another). Find out how to keep up with your new network.

SOCIAL MEDIA & JOB HUNTS

Linkedin, Twitter, Facebook and others: how can these tools advance your job search.

CONFLICT RESOLUTION

Conflict and disagreement are integral parts of the scientific process, but when disputes involve or foster interpersonal hostilities, they can undermine scientific collaboration, productivity and morale. Here are some ideas to help you prevent, manage and resolve conflicts at work.

NAVIGATING THE US JOB SEARCH FOR NON-CITIZENS

Searching for a job in the US poses unique challenges for non-citizens. This quick overview will raise awareness of common concerns for visiting fellows.

NAVIGATING AN INTERNATIONAL JOB SEARCH

This session will touch on networking tips, places to look for a job and things to think about for a non-US career.

FINDING A POSTDOC

As a grad student, how do you plan a postdoc to fit in your ultimate career goals regardless if you plan on academics, industry or non-bench paths.

symposium organizers

SYMPOSIUM PLANNING COMMITTEE

The OITE thanks the dedication and hard work of the following members of the planning committee. We also appreciate the support of the IC Training Offices across the NIH.

Liron Abuhatzira, NCI	David McGaughey, NHGRI
Sean Barron, NICHD	Masfique Mehedi, NIAID
Alexis Boyd, NIAID	Margaret Ochocinska, NICHD
Jennifer Huang, NCI	Holger Pflücke, NCI
Paul Hynes, NCI	Nesrin Rechache, NCI
Wanyoike Kang'ethe, NIDDK	Shireesh Srivastava, NIAAA
Jeffrey Knight, NCI	Nalini Shenoy, NHLBI
Lillian Kuo, NCI	Janani Varadarajan, NCI
Minkyong Lee, NHGRI	Gaia Vasiliver-Shamis, NIAMS
Gaelle Lefevre, NIDDK	Elizabeth Webber, NIDCD
Shih-Wen (Wenny) Lin, NCI	Matt Wenham, NIDDK

GRADUATE STUDENT COUNCIL

The Graduate Student Council (GSC) is composed of some very proactive individuals that represent the substantial population of graduate students at the NIH. Since the NIH has a different atmosphere than a traditional academic institution, their goal is to promote a sense of community and to assure that graduate students have access to all the opportunities and resources at NIH that they would receive from a traditional university. The GSC organizes a number of events that involve anything from academic and career development to volunteer work and social events. The GSC plans retreats and research symposiums, as well as the recruitment and orientation of new students through strong collaborations with the Graduate Partnerships Program. The GSC has also established scientific interest groups, a student seminar series, a community service group, organized and taught a laboratory techniques class through FAES, launched a student list-serve, created The GSChronicles student newsletter, in addition to an array of other student-run activities. The GSC will continue to improve and serve the student community by developing new initiatives through cooperation with the OITE, GPP, FelCom and FAES. To learn more about the GSC, please visit the website at <http://gpp.nih.gov/Current/GraduateStudentCouncil/>.

NIH FELLOWS COMMITTEE

FelCom works to enhance the training experience of all postdoctoral fellows at NIH. It consists of basic and clinical representatives from each NIH Institute and seeks to foster communication among fellows and the NIH community by offering career development and networking opportunities, teaching

opportunities, and sponsoring various workshops and events. Subcommittees within FelCom include Career Development, Mentoring, and the Fellows Award for Research Excellence (FARE). Members also act as liaisons to NIH and national organizations. FelCom runs many social functions as well. To learn more about FelCom and to find out about upcoming events, please visit the website at <http://felcom.od.nih.gov/>.

OFFICE OF INTRAMURAL TRAINING & EDUCATION

The Office of Intramural Training & Education (OITE), in the Office of the Director, is home to more than 6000 trainees at NIH, including clinical fellows, postdoctoral fellows, graduate students, postbaccalaureate fellows, summer interns and many others. Along with the NIH Institutes and Centers, the OITE works to recruit a diverse group of trainees to NIH campuses and strives to create a training environment that fosters innovative and productive research and enables trainees to develop advanced communication and collaboration skills early in their scientific career.

The OITE sponsors numerous workshops and career development activities through the year. These programs are open to all trainees and are advertised on the OITE webpage and trainee e-mail lists.

The OITE houses a career services center and library to help you plan for a satisfying career. Our goal is to insure that all NIH trainees are aware of the many jobs available to Ph.D.s – both at and away from the bench. Our career counselors run workshops and small group discussions open to all NIH trainees. They are also available for individual appointments to assist you in career exploration, self-assessment, and career planning. Services include assessments to help you analyze your working style and areas of career interest, help with interviewing and developing networking skills, CV and cover letter review, and mock interviews.

Visit the OITE webpage at www.training.nih.gov to schedule a career services appointment or drop by our office in Building 2 to check out resources from the career library. Our counselors travel to other NIH campuses. Phone conferencing is available and career resources can be sent to remote campuses upon request.

OITE maintains an open-door policy. Staff members are available to answer questions, advise you of training opportunities, discuss mentoring, and help you to resolve any difficulties.

keynote speaker



CAREER HIGHLIGHTS

- 2001-** President, University of Miami
- 1993-2001** Secretary, U.S. Department of Health and Human Services
- 1987-1993** Chancellor, University of Wisconsin-Madison
- 1980-1987** President, Hunter College of the City University of New York
- 1977-1980** Assistant Secretary for Policy Development and Research, U.S. Department of Housing and Urban Development
- 1972-1979** Associate Professor and Chair, Program in Politics and Education, Teachers College, Columbia University
- 1962-1964** U.S. Peace Corps Volunteer, Iran

the Public Health Service, the National Institutes of Health (NIH), the Centers for Disease Control and Prevention (CDC), and the Food and Drug Administration (FDA). At the end of her tenure as HHS Secretary, *The Washington Post* described her as “one of the most successful government managers of modern times.”

She served in the Carter administration from 1977-80 as Assistant Secretary for Public Development and Research at the U.S. Department of Housing and Urban Development.

Donna E. Shalala, PhD PRESIDENT OF UNIVERSITY OF MIAMI

Donna E. Shalala became Professor of Political Science and President of the University of Miami on June 1, 2001. President Shalala has more than 30 years of experience as an accomplished scholar, teacher, and administrator.

Born in Cleveland, Ohio, President Shalala received her AB degree in history from Western College for Women. One of the country's first Peace Corp Volunteers, she served in Iran from 1962 to 1964. She earned her PhD degree from The Maxwell School of Citizenship and Public Affairs at Syracuse University. She has held tenured professorships at Columbia University, the City University of New York (CUNY), and the University of Wisconsin - Madison. She served as President of Hunter College of the City University of New York from 1980 to 1987 and as Chancellor of the University of Wisconsin-Madison from 1987 to 1993.

During her tenure, UM has solidified its position among top U.S. research universities. *Momentum: The Campaign for the University of Miami*, one of the first billion-dollar capital campaigns completed in the United States, raised \$1.4 billion in private support for the university's endowment, academic and research programs and facilities.

In 1993 President Clinton appointed her U.S. Secretary of Health and Human Services (HHS) where she served for eight years, becoming the longest serving HHS Secretary in U.S. history. At the beginning of her tenure, HHS had a budget of nearly \$600 billion, which included a wide variety of programs including Social Security, Medicare, Medicaid, Child Care and Head Start, Welfare,

She is a Director of Gannett Co., Inc., the Lennar Corporation, and Mednax, Inc. In 2007, President George W. Bush handpicked Shalala to co-chair with Senator Bob Dole the Commission on Care for Returning Wounded Warriors, to evaluate how wounded service members transition from active duty to civilian society. In 2009 she was appointed chair of the Committee on the Future of Nursing, at the Institute of Medicine of the National Academy of Sciences.

President Shalala has more than four dozen honorary degrees and a host of other honors, including the 1992 National Public Service Award, the 1994 *Glamour* magazine Woman of the Year Award; in 1992, *Business Week* named her one of the top five managers in higher education; in 2005 she was named one of “America's Best Leaders” by *U.S. News & World Report* and the Center for Public Leadership at Harvard University's Kennedy School of Government; and she received the 2010 Nelson Mandela Award for Health and Human Rights, which recognizes individuals for outstanding dedication to improving the health and life chances of disadvantaged populations in South Africa and internationally.

In June 2008, President Bush presented her with the Presidential Medal of Freedom, the nation's highest civilian award. She has been elected to the Council on Foreign Relations; National Academy of Education; the National Academy of Public Administration; the American Academy of Arts and Sciences; the American Philosophical Society; the National Academy of Social Insurance; the American Academy of Political and Social Science; and the Institute of Medicine of the National Academy of Sciences.

speakers

Victoria Aranda, PhD

Associate Editor
Nature Medicine, Nature Publishing Group
v.aranda@us.nature.com

Dr. Aranda is an Associate Editor with Nature Medicine. She joined the Nature Publishing Group in 2009, as a scientific editor handling manuscripts in the field of cancer. From 2004 to 2009 she conducted her postdoctoral research in Cold Spring Harbor Laboratory, where she studied the contribution of tissue architecture to breast cancer using three-dimensional cell culture models. Dr. Aranda earned her BS degree in Biochemistry and her PhD in Biochemistry and Cellular Biology from the University of Navarra, Spain.

Sharmila Banerjee-Basu, PhD

President and Chief Scientific Officer
MindSpec, Inc.
sharmila@mindspec.org

Dr. Banerjee-Basu is the President and Chief Scientific Officer of MindSpec, a nonprofit research organization using a systems biology/bioinformatics approach to understand molecular events underlying neurodevelopmental disorders such as autism. Over the course of her career she has published over 30 peer-reviewed research articles and four book chapters. Currently funded by the Simons Foundation, she collaborates with scientists at Cold Spring Harbor Laboratory and holds joint appointment at Cambridge University, UK. Before founding MindSpec in 2006, Dr. Banerjee-Basu worked as a staff scientist at the National Human Genome Research Institute for ten years, using a variety of bioinformatics approaches to understand the evolution and function of neurodevelopmental homeodomain proteins, focusing on how mutations in these proteins contribute to human disease. From 1991 to 1996, she conducted postdoctoral research at the National Institute of Child Health and Human Development, where she studied the role of transcription factors in mammalian gene regulation. Dr. Banerjee-Basu earned her undergraduate degree in Chemistry from Presidency College, Calcutta, and her PhD in Biochemistry from the University of Maryland.

Jabbar R. Bennett, PhD

Assistant Dean, Graduate School
Clinical Assistant Professor of Medicine
The Warren Alpert Medical School Brown University
Jabbar_Bennett@brown.edu

Dr. Bennett serves as assistant dean in the Graduate School and clinical assistant professor of medicine at The Warren Alpert Medical School of Brown University. Prior to joining Brown he served on the faculty at Harvard Medical School and directed the

Office for Multicultural Faculty Careers at Brigham and Women's Hospital, a Harvard Medical School teaching affiliate. Previously, Dr. Bennett also served as Senior Director of Development for Life Sciences, Healthcare and Education Industry Partnerships with United Way of Massachusetts Bay (UWMB) in Boston, and as Research and Science Specialist in the Office for Diversity and Community Partnership at Harvard Medical School. He received his BS in biology and minor in Spanish from North Carolina Agricultural and Technical (A&T) State University, and his PhD in biomedical sciences from Meharry Medical College. At Meharry he was funded as a National Science Foundation (NSF) Alliance for the Enhancement of Science Education and Technology Graduate Teaching Fellow, and later as a UNCF-Merck Postdoctoral Research Fellow while training in the Department of Pathology at Harvard Medical School. Dr. Bennett is an alumnus of the Massachusetts Education Policy Fellowship Program and the Harvard University Administrative Fellowship Program.

Brian D. Berman, MD, MS

Assistant Professor of Neurology
University of Colorado Denver, School of Medicine
brian.berman@ucdenver.edu

Dr. Berman is an academic neurologist at the University of Colorado Denver where he conducts research that utilizes functional imaging techniques to study the pathophysiology of Parkinson disease and dystonia. Before accepting this faculty position in August of 2010, he was a clinical fellow in the Human Motor Control Section of the National Institute of Neurological Disorders and Stroke. Under the tutelage of Dr. Mark Hallett at the NIH, Dr. Berman received neurology subspecialty training in movement disorders and developed research expertise in the application of functional imaging methodologies such as fMRI and PET to the study of the pathophysiology of movement disorders. Prior to his clinical fellowship at the NIH, Dr. Berman completed his medicine internship and neurology residency training at the University of California at San Francisco. Dr. Berman earned his BS degree in Physics at the University of New Mexico, and his MS in Medical Physics and later his MD at the University of Colorado Health Sciences Center.

Brian Bird, DVM, MSPH, PhD

Veterinary Medical Officer
Special Pathogens Branch
Centers for Disease Control and Prevention (CDC)
Bbird1@cdc.gov

Dr. Bird is a veterinarian and molecular biologist specializing in the molecular pathogenesis and development of novel vaccines and medical countermeasures for variety of viral hemorrhagic fever (VHF) pathogens. Since 2002, he has been

actively engaged in research programs that have contributed to increased understanding of the molecular mechanisms utilized by high consequence pathogens such as Rift Valley fever, Junin, Lassa fever, Andes, and Ebola viruses to cause severe disease and lethality. He has participated in field investigations and outbreak response efforts for several VHFs, and recently completed a large scale field-trial of a novel vaccine for Rift Valley fever virus in South Africa. Dr. Bird was a United States Peace Corps volunteer where he worked as a lecturer in the Kazakhstan School of Public Health. He earned his BA degree from the Johns Hopkins University, a Masters degree in Public Health from the Johns Hopkins School of Hygiene and Public Health, and his DVM and PhD in Comparative Pathology from the University of California, Davis, School of Veterinary Medicine.

Raymond (Ray) K. Blanchard, PhD

Associate Director, R&D Project Management
QIAGEN Inc. (SABiosciences Corp.)
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Dr. Blanchard is the R&D Project Management Director for QIAGEN's Center of Excellence for Biological Content Development in Frederick, MD. This new Life Sciences R&D center became part of QIAGEN with the acquisition of SABiosciences Corp. in December of 2009. During 2008 through 2010, Dr. Blanchard was the Assistant Director of Technology Development at SABiosciences where he was responsible for managing intellectual property, technology licensing and the R&D innovation program. Prior to this role, he served as an R&D Senior Scientist developing gene expression and epigenetic research tool kits. Before moving to industry and SABiosciences in 2004, Dr. Blanchard held a research faculty appointment in the Laboratory of Nutrigenomics in the Food Science and Human Nutrition Department at the University of Florida where he helped pioneer the application of genomics tools in the field of nutritional biochemistry. His research during this time focused on dietary zinc regulated gene expression and molecular mechanisms of intestinal zinc absorption. Dr. Blanchard earned his BS, MS and PhD degrees in Biochemistry from the University of California, Riverside.

Jessica Blumstein, PhD

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Dr. Blumstein is a Senior Strategy Manager of BioOncology at Genentech, supporting the HER2 Franchise. She has been with Genentech since fall of 2010 and previously worked at Pfizer as a Managed Markets Marketer for products including Chantix, Geodon, and Aricept, as a management consultant with companies like Capgemini and Archstone Consulting, and helped to

build a few startup organizations focused on different aspects of the life sciences industry. Dr. Blumstein earned her PhD in Cell Biology from the University of California, at San Francisco and her Bachelor's degree from The Johns Hopkins University.

César Boggiano, PhD

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Dr. Boggiano is a principal scientist at the IAVI Design and Development Laboratory, where he conducts pre-clinical studies to evaluate HIV-1 vaccine candidates and designs new HIV antigens with enhanced immunogenicity. From 2004 to 2007, he was a postdoctoral fellow at the lab of Dr. Dan Littman at the Skirball Institute of Biomolecular Medicine in New York University, where he studied the interactions between HIV-1 and human dendritic cells via DC-SIGN. Dr. Boggiano earned his PhD in Biology under a program between the University of Buenos Aires, University of California San Diego and the Torrey Pines Institute for Molecular Studies in La Jolla, California, where he applied synthetic combinatorial chemistry to identify fusion inhibitors and optimized T-cell epitopes for the treatment and prevention of AIDS.

Laura Borland, PhD

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Dr. Borland is an associate with the Chemical, Biological, Radiological, Nuclear, and Explosives (CBRNE) Team in the government consulting firm of Booz Allen Hamilton, located in Aberdeen, MD. In her current capacity, Dr. Borland provides scientific and technical expertise to a variety of government clients in the Department of Defense, the Department of Homeland Security, and the Defense Intelligence Agency. From 2006 – 2008, Dr. Borland was an NIH Kirshstein-NRSA fellow in the lab of Prof. Nancy Allbritton at the University of California, Irvine and the University of North Carolina, Chapel Hill, where her research focused on the development capillary electrophoresis-based methods to monitor and measure protein post-translational modifications in single cancer cells. She earned her PhD in Analytical Chemistry from the University of Pittsburgh in 2005, under the tutelage of Professor Adrian Michael. During her graduate studies, Dr. Borland used and developed numerous bioanalytical methods, including electrochemical methods with microfiber electrodes and microdialysis, to elucidate the mechanism of dopamine release from rat brain nerve terminals after administration of drugs of abuse, including cocaine and amphetamine. Dr. Borland earned her BS in Chemistry from Drake University in 2000.

speakers

Paul J. Brett, PhD

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Dr. Brett is an Assistant Professor in the Department of Microbiology and Immunology at the University of South Alabama. Prior to joining USA in 2008, Dr. Brett conducted postdoctoral training at both Rocky Mountain Laboratories, NIAID/NIH, Hamilton, MT and University College London, London, UK as well as held a senior research position at Quorex Pharmaceuticals, Inc., Carlsbad, CA. Dr. Brett earned his BSc in Biochemistry from the University of Victoria, Victoria, BC and his PhD in Bacterial Pathogenesis from the University of Calgary, Calgary, AB in 1998. He has served as a peer reviewer/panel member for the NIAID/NIH, the American Heart Association, the Defense Threat Reduction Agency and the Medical Research Council (UK). In addition, he serves as an ad hoc peer reviewer for a number of journals including *Antimicrobial Agents and Chemotherapy*, *Infection and Immunity*, *Molecular Microbiology* and *PLoS Pathogens*. Research in Dr. Brett's lab focuses on elucidating the molecular mechanisms used by pathogenic *Burkholderia* species to cause disease in humans and animals. In particular, he is interested in determining how the virulence-associated type III and type VI secretion systems expressed by these bacterial pathogens influence their ability to survive and replicate in phagocytic cells.

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Dr. Brown directs the operations, quality assurance, and regulatory affairs activities for Sabin's Vaccine Development program. She received her PhD in International Health with a focus in vaccine development, application, and policy from The Johns Hopkins Bloomberg School of Public Health. She holds a Master of Public Health (MPH) degree from The Rollins School of Public Health of Emory University and a BA in Biology from the University of Pennsylvania. Before joining Sabin in 2005, Dr. Brown worked in the Center for Immunization Research at the Johns Hopkins Bloomberg School of Public Health where she served as a primary member of the Clinical Vaccine Trials Consultants and instructor for an academic course entitled, "Clinical Trials and Good Clinical Practice (GCP)." In this capacity, she has trained clinical trial professionals worldwide. Other experience includes laboratory and community work on various HIV vaccine trials, a fellowship with the Centers for Disease Control and Prevention's (CDC) National Centers for HIV, STD, and TB Prevention (NCHSTP) to develop measures for behavioral surveillance, and with the

Emory Vaccines Center, where Dr. Brown designed the community education and recruitment plans for HIV vaccine trials. She has extensive international field experience in sub-Saharan Africa, Asia, and Latin America.

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Dr. Champion has been an Assistant Professor of Research in the Department of Chemistry and Biochemistry at The University of Notre Dame since Sept. 2009. In addition to being a principal investigator, he also directs the proteomics core within the mass spectrometry facility. Before academics, he worked from 2003-2009 in the mass-spectrometry-proteomics group within Applied Biosystems (Now AB Sciex) at Foster City, CA. From 2005-2009 he was a Sr. Scientist, Sr. Staff Scientist and Proteomics lead within the group. Specifically he worked on development of collaborative and customer applications of biological mass spectrometry, and taught on-site and classroom education and training. From 1997-2003 Dr. Champion conducted his graduate work in the laboratories of Dr. James Hu and Dr. David Russell at The Texas A&M University in College Station, TX. His research focused on discovering physiologic shifts in stationary-phase bacteria. The output of this research was predominantly focused on developing proteomic approaches to address these observations. Dr. Champion earned his BS in Microbiology from the University of Iowa and his PhD in Biochemistry from The Texas A&M University.

Kevin W. Chang, PhD

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Dr. Chang is a Senior Licensing and Patenting Manager with the NIH Office of Technology Transfer. From 2006 to 2008 he was a Technology Transfer Specialist Fellow at the National Cancer Institute's Technology Transfer Center (NCI TTC). Prior to his position at the NCI TTC, Dr. Chang conducted postdoctoral research on retroviral replication and retroviral vector design at the NCI Frederick HIV Drug Resistance Program from 2001 to 2006. Dr. Chang earned his BS degree in Physiology and Neurobiology from the University of Maryland, College Park and his PhD in Microbiology and Immunology from Louisiana State University Health Sciences Center, Shreveport studying viral membrane fusion in coronaviruses.

Matthew Lee Cheever, PhD

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Dr. Cheever is currently employed as a protein biochemist by BD Diagnostics, where he is involved in the research and development of diagnostic tools for improving the early detection of several types of cancer. From 2004 to 2008, Dr. Cheever studied the regulatory mechanisms of Heterotrimeric G-protein signaling pathways as an American Cancer Society Postdoctoral Fellow at the University of North Carolina, Linerberger Cancer Center. Dr. Cheever earned his PhD in Biophysics and Genetics through the University of Colorado Health Sciences Center, Molecular Biology Program for his research characterizing the phosphoinositide-binding function of Phox homology domain-containing proteins. Before graduate school, Dr. Cheever worked for two years as a laboratory technician at the University of Utah, Center for Human Toxicology. Dr. Cheever earned a BS degree in Molecular Biology with a Microbiology emphasis in 1995 from Brigham Young University in Provo, Utah.

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Dr. Cisneros started as an assistant professor in the Department of Chemistry at Wayne State University in August 2009, and was admitted into the Genetics and Molecular Biology program and the Karmanos Cancer Institute in November 2009. From 2004 to 2009 he was a postdoctoral (IRTA) fellow in the Computational Chemistry/Molecular Modeling group in the Laboratory of Structural Biology-NIEHS. While at NIEHS, Dr. Cisneros worked on the development of novel computational modeling tools for chemical and biochemical systems as well as simulations of reaction mechanisms of DNA repair enzymes. Dr. Cisneros earned his BS degree in Chemistry from UNAM (National Autonomous University of Mexico) in Mexico City, and his PhD in Chemistry with emphasis on Physical Chemistry from Duke University, Durham, NC.

Janet Cyr, PhD

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Dr. Cyr is Program Officer at National Institute of Deafness and Other Communication Disorders where she manages a grant

portfolio of auditory and vestibular grants and also oversees all of the Institute's individual NRSA Fellowships. She received her PhD in Neuroscience/Cellular Molecular Biology from the University of Texas Southwestern Medical Center in Dallas, TX. Dr. Cyr began studying the molecular basis of mechanotransduction of hair cells, the sensory receptor cells of the inner ear, as a postdoctoral fellow at The Rockefeller University and the Oregon Health and Sciences University. She was a Research Assistant Professor at OHSU for one year and in 2001 began as an Assistant Professor in the Department of Otolaryngology and the Sensory Neuroscience Research Center at West Virginia University School of Medicine. In addition to running an active, NIH-funded research laboratory, she was a co-Founder and co-Director of the Biology of the Inner Ear Course held at the Marine Biological Laboratory in Woods Hole, MA. In 2007 she was promoted to Associate Professor with tenure at WVU and soon thereafter joined NIDCD in September 2008.

James M. Dahlhamer, PhD

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Dr. Dahlhamer is a survey statistician with the Division of Health Interview Statistics, National Center for Health Statistics. His primary responsibilities include survey planning and outreach, questionnaire development, and methodological research. Among his current research interests and activities are the use of survey paradata for measuring and monitoring data quality. Dr. Dahlhamer earned a BS degree in Sociology from Shepherd University, and a Master's and PhD in sociology from the University of Delaware.

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Dr. Dautin is an Assistant Professor in the Department of Biology at the Catholic University of America. From 2004 to 2009, she was a postdoctoral fellow with Dr. Harris Bernstein at the National Institute of Diabetes and Digestive and Kidney Diseases, where she worked on the mechanisms of proteins secretion in gram-negative bacteria. Dr. Dautin earned her BS degree in Biochemistry from the University of Paris VII, Denis Diderot (France) in 1998. From 1999 to 2003 she was a Graduate Research Fellow with Dr. Ladant at the Pasteur Institute in Paris, France, and worked on the structure-function relationships of the adenylate cyclase toxin from *Bordetella pertussis*, the agent of whooping cough.

speakers

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Dr. de Guzman Strong is an Assistant Professor in the Department of Medicine's Division of Dermatology and Center for Pharmacogenomics at Washington University School of Medicine in St. Louis, MO. She is a recipient of Washington University's Faculty Diversity Scholar Award and a K99/R00 Pathway to Independence Award from NIAMS. From 2003 to 2010, she was a postdoctoral fellow at the National Human Genome Research Institute investigating mechanisms underlying skin barrier formation. Dr. de Guzman Strong earned her BS degree (*magna cum laude*) in Biology from Emory University in Atlanta, GA and her PhD in Human Genetics from the University of Alabama at Birmingham.

Rita Devine-Ward, PhD

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Dr. Devine received her Bachelor of Science in Animal Science from the University of Delaware in 1983. Following several years of research in a tropical medicine laboratory, she entered graduate school at Georgetown University and received her PhD in Developmental Biology in 1993 for research on sperm protein expression during development and embryogenesis. Following a postdoctoral fellowship in the lab of Dr. April R. Robbins, NIDDK, studying cytoskeleton proteins involved in the movement of lysosomes, Dr. Devine joined the NINDS as a fellow in the lab of Dr. Tom Reese. As she was looking to advance in her career, Dr. Devine was offered a position by Dr. Story Landis, which is best described as a combination of research and administration. After a year of juggling bench work and administrative tasks, Dr. Devine decided to dedicate her efforts solely to administration. She has occupied the position of Assistant Director for Science Administration to the NINDS Scientific Director since accepting Dr. Landis's offer in 1997, now serving under Dr. Alan Koretsky. Dr. Devine is responsible for tracking NINDS space, overseeing physical facilities and core scientific facilities, planning lab renovations, and handling other space-related issues. In addition, Dr. Devine is the Program Coordinator for the NINDS Summer Internship Program. NINDS hosts approximately 75 high school and college students each year and has a commitment to diversity in the summer program. In 2008, Dr. Devine received the NIH Director's Award for her work bringing Native American students to the NINDS.

Gayathri J. Dowling, PhD

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Dr. Dowling is currently the Acting Chief of the Science Policy Branch in the Office of Science Policy and Communications at the National Institute on Drug Abuse, part of the National Institutes of Health. There she helps to educate a variety of audiences about the science of drug abuse and addiction—developing, guiding, and targeting communications for many different audiences, including Congress, the White House Office of National Drug Control Policy, other Federal Agencies, constituency organizations, physicians, and the general public. Her varied tasks include developing publications, outreach initiatives, and other multimedia campaigns, portfolio analysis, working on inter-agency committees, representing NIDA to the media, review of all NIDA materials, among many others. Before coming to NIDA, Dr. Dowling served as a Scientific Review Administrator at the National Institute of Mental Health, overseeing scientific reviews of proposed research. She was also a Program Officer at the National Institute of Neurological Disorders and Stroke, where she managed grants aimed at increasing the number of minority researchers working in different areas of neuroscience. Dr. Dowling earned a PhD in Neurobiology from the University of California at Davis, where she studied the developing nervous system and subsequently conducted research on nicotine and Parkinson's Disease. Along with publishing multiple scientific papers and a range of multimedia products, Dr. Dowling has earned numerous awards and widespread recognition for her work, including receiving an Emmy award for her contributions to the HBO documentary, *Addiction*.

Albert W. Dreisbach, MD

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Dr. Dreisbach is a Nephrologist and Clinical Pharmacologist and Associate Professor in the Division of Nephrology at the University of Mississippi since 2006. He has been the Director of Nephrology Research since 2010. Prior to this, he was Assistant Professor of Medicine at Tulane University Health Science center 1999-2006. He also served as Director of Clinical Pharmacology at the Phase I Clinical Trial Unit ICCR, a CRO where he conducted Phase I Clinical Pharmaceutical Trials. Dr. Dreisbach did his Clinical Pharmacology Fellowships at Cornell Weill School of Medicine and

Tulane University. His Nephrology Fellowship was also at Tulane 1997-1999. He did Post Docs in Renal Physiology at University of Medicine and Dentistry of NJ (UMDNJ) where he attended medical school and did basic research on renal proximal tubule endocytic protein trafficking and salt wasting nephropathy. His undergraduate training in Biology and Chemistry was at Saint Peter's College in Jersey City, NJ. He is a member of the American Board of Clinical Pharmacology. Dr. Dreisbach's current research interests involves pharmacogenetics and drug interactions, the effect of chronic kidney disease on drug metabolism and transport, and translational studies focusing on the genomics and lipidomics of CYP450 eicosanoid pathways in chronic kidney disease and hypertension.

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Dervla Mellerick Dressler established Science Word Doctor, LLC in 2007 to allow her to work from home. She writes manuscripts and grants for academicians and biotech companies, edits writing by foreign nationals and provides scientific input on a contract basis. She is currently writing a guidebook for research scientists aimed at improving research and communication skills to advance scientific careers. From 1999-2006, Dr. Mellerick-Dressler was an Assistant Professor in the Pathology Department at the University of Michigan. She was a research scientist in the Department of Pediatrics at the University of Michigan prior to that where her lab did research on CNS stem cell patterning in the fruit fly embryo. From 1992-1994, she was a staff fellow in the lab of the nobel laureate, Marshall Nirenberg, at NHLBI and of Ward Odenwald in NINDS, working on transcription factors involved in neural patterning in *Drosophila*. Dr. Mellerick-Dressler did her postdoc research on intermediate filaments with Klaus Weber at the MPI in Goettingen, Germany from 1986-1989. Her PhD in microbiology at the University of Pennsylvania focused on the physical state of the herpesvirus genome. Dervla received her undergraduate and master's degree in Microbiology from the National University of Ireland at Cork, Ireland.

Suzanne Dashiell Elder, PhD

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Dr. Dashiell is currently a teacher at Urbana High School in Frederick County, MD, where she serves as Department Chairperson and teaches Biology and Chemistry to high school students. She

also is the advisor for the school's Science National Honor Society and the Science Academic Team. From 1998-2000, she was a Postdoctoral Fellow at NINDS in the Laboratory of Molecular and Cellular Neurobiology under the guidance of Dr. Richard Quarles, where she conducted research and authored scientific papers on intracellular signaling of cytoskeletal elements in neurons in response to myelin proteins. In 2000, Dr. Dashiell left NINDS in pursuit of a career in the public school system, and obtained her Advanced Professional Certificate in Secondary Biology and Chemistry. This past summer, she did an externship at the Battelle National Biodefense Institute. Dr. Dashiell earned her BS in Physiology and Neuroscience from Rutgers University, and her MS and PhD in Medical Pathology from the University of Maryland School of Medicine in 1998.

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Dr. Fernandez, is a Director in the venture capital group, of Burrill & Company, a San Francisco based life sciences merchant bank. She has more than 15 years of life science/ biotech experience and is primarily involved in sourcing and evaluating investment opportunities. Dr. Fernandez also focuses on India as region of interest for the firm. Her areas of interest include healthcare and healthcare delivery. She was a Board observer on Biolmage, a company in the digital pathology space (exited via a sale to Roche), currently on the Board of Adlyfe, a Maryland based company, and on the Advisory Board, Finance, for Express Pharma. Dr. Fernandez secured her doctorate at the Cancer Research Institute, India, having been awarded the Indo-U.S. scholarship, from the National Institutes of Health. She specialized in the fields of protein chemistry and genetic engineering, at the College of Medicine, Texas A&M and then joined the National Cancer Institute where she was appointed Staff scientist. She also completed courses in biotech startups for Scientists and Technology Transfer while at the NIH. Dr. Fernandez is very active on the speaking circuit, both in the US and India and has authored several articles on the evolving life science landscape. She also enjoys mentoring entrepreneurs and plays an active role in several entrepreneurship organizations.

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Nora Gardner is an Associate Principal in McKinsey's Washington, D.C., office with expertise in talent, organizational performance transformation, leadership development and culture change. She

speakers

has extensive experience working with government agencies, both in the U.S. and abroad, as well as with public and private sector healthcare clients. Nora has served U.S. and U.K. government clients on organizational redesign and transformation of their human capital and talent management systems. She is one of McKinsey's most experienced facilitators and coaches and has assisted several public sector clients on change management communications. Prior to joining McKinsey, she worked at the National Institutes of Health in the NIDDK as a Postdoctoral Research Fellow and the NINDS as a AAAS Science Policy Fellow. She earned a PhD in Biochemistry from Duke University and a BS from North Carolina State University.

Nicole Gerlanc, MS, PhD

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Dr. Nicole Gerlanc received her BS in biology from Purdue University, where she won the Singleton Award for most outstanding biology honors graduate for her research in fungal population genetics. Dr. Gerlanc was able to include a field component in her work on the population dynamics and genetics of western chorus frogs at Kansas State University where completed both a MS and PhD. Kansas State is also where Dr. Gerlanc was introduced to teaching first as a graduate student teaching assistant and eventually as an instructor. Following graduate school Dr. Gerlanc completed a three year postdoctoral fellowship at Murray State University where she worked on modeling the population demographics and life history choices of polymorphic salamanders. She was also a Co-PI on the BioMaPS NSF grant, a biomathematics program in which teams of biology and mathematics researchers and their students conducted collaborative research, and taught at Murray State as an instructor before joining the faculty at Frederick Community College as an Assistant Professor of Biology. Dr. Gerlanc has been at FCC for four years. She still maintains involvement in the research community through Frederick Sigma Xi, of which she is the current president, projects with her students and continued collaboration with her colleagues at Murray State.

Laura Gillim-Ross, PhD

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Dr. Gillim-Ross is currently the Supervisor of the Public Health Microbiology and Serology work units, in the Laboratory Services

Division, Colorado Department of Public Health and Environment. In her current position, she ensures that the Colorado State laboratory performs testing using the most current and effective testing algorithms for the identification of infections including, HIV, rabies, syphilis, Chlamydia, E. coli, and tuberculosis, among others. She is a member of the APHL Infectious Disease committee and the CDC/APHL HIV steering committee. From 2005-2007 Dr. Gillim-Ross was a research fellow in the Laboratory of Infectious Diseases, NIAID, NIH, working on avian influenza pathogenicity and vaccine development. From 2003-2005 she was an APHL/CDC Emerging Infectious Diseases (EID) Research Fellow at the Wadsworth Center, New York State Department of Health, where she participated in research focusing on the then emerging SARS-coronavirus. Prior to entering a doctoral program in 1998, Dr. Gillim-Ross was an IRTA fellow in the HIV and AIDS Malignancy Branch, NIH. She earned her BS degree in Molecular/Cellular Biology from Haverford College, Pennsylvania, and her PhD in Biomedical Sciences, with an emphasis on Microbiology, from the Mount Sinai School of Medicine, New York.

Peter Hitchcock, PhD

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Dr. Hitchcock is a Professor in the School of Medicine at the University of Michigan. His laboratory investigates the cellular and molecular mechanisms that govern development and stem cell-based neuronal regeneration in the vertebrate retina. Since establishing his laboratory in 1987, Dr. Hitchcock's research program has received continuous support from the NIH and grants from private foundations. Dr. Hitchcock is the founding Director of Michigan's Vision Research Training Program and the Principal Investigator of Michigan's NEI Vision Research Training Grant. Dr. Hitchcock is the immediate past Director of the Interdepartmental Neuroscience Graduate Program at Michigan. Currently, Dr. Hitchcock is the founding Director of the UMMS Office of Postdoctoral Studies, which sponsors career development activities for the nearly 700 postdoctoral fellows at Michigan's medical school. Dr. Hitchcock earned a BS degree from Michigan State University and a PhD from the University of Alabama in Birmingham. Dr. Hitchcock received postdoctoral training at the University of Michigan and, as a visiting fellow, the Salk Institute for Biological Studies.

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Dr. Hudson presently holds a position as an Assistant Professor at the Howard University Cancer Center in the Department of Medicine through the Howard-Hopkins Partnership. He also serves as one of the Directors of the Howard-Hopkins Medical Scholars and Research Summer Training Program. Dr. Hudson's research at Howard focuses on developing chemopreventive strategies that employ bioactive compounds with low toxicity that suppress, delay, or reverse tumorigenesis in preclinical cancer models which can be transitioned into clinical trials. From 2002-2007, Dr. Hudson was a Cancer Prevention Fellow at the National Cancer Institute where he focused on utilizing *in vitro* and *in vivo* models to assess the activity of bioactive compounds on molecular pathways in cancer models. As a component of the NCI fellowship, Dr. Hudson earned a M.P.H. from George Washington University focusing on Dietary fiber intake. From 1995-2002, Dr. Hudson earned a PhD in Environmental Health Sciences at The Ohio State University where he focused on evaluating the functional differences among isothiocyanates in carcinogen-induced tumor models. Dr. Hudson's research interest can be traced from Iowa State University where he received his Bachelor of Science Degree in Biology (1989-1994) and performed research on isolating different viral glycoproteins from infected sheep.

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Dr. Albert Hwa joined JDRF in 2007 and is currently a Scientific Program Manager in the Beta Cell Therapies program. At JDRF, he develops and manages research programs related to islet transplantation; bioengineering; stem cell research; cell encapsulation; and cellular reprogramming. He has represented JDRF and liaised with other funding partners, including the European Foundation for the Study of Diabetes, the Roche Organ Transplantation Research Foundation and the Helmsley Charitable Trust. He was also involved in managing large research consortia, including the European Consortium for Islet Transplantation and the Islet Transplantation Program in Australia. He currently serves as a representative on the United Network for Organ Sharing Pancreas Transplantation Committee and the Collaborative Islet Transplant Registry Scientific Steering Committee. Prior to joining JDRF, he has worked as a consultant and a research associate at the International Biometric Group, where he managed and executed research grants awarded by the US government. Albert received his BS degree in Chemical Engineering

from Cornell University and his PhD in Bioengineering from Massachusetts Institute of Technology. His dissertation focused on liver tissue engineering devices and physiological organ cultures.

Zina M. Johnson, PhD

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Dr. Johnson is a Medical Science Liaison with Inspire Pharmaceuticals, a specialty pharmaceutical company focused on ophthalmology, located in the Research Triangle Park of North Carolina. Prior to this position, Zina was a Scientific Liaison with CellzDirect Inc., a subsidiary of Invitrogen Corp., in the fields of hepatology and infectious disease. Dr. Johnson received her PhD in 2007 from the University of North Carolina at Chapel Hill in the Department of Cell and Developmental Biology. Her research involved cell motility, proteomics and lipidomics related to infectious disease. She earned her BS in Biological Science from the University of Illinois at Chicago in 2001 and subsequently spent three years conducting research in the Department of Biophysics and Physiology studying cytoskeletal protein regulation in transcription. Dr. Johnson's clinical background also includes four years managing a hyperbaric treatment facility in the US Air Force.

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Dr. Jones is the Senior Policy Analyst for Chemical and Biological Countermeasures in the Office of Science and Technology Policy (OSTP). She received her PhD in Microbiology and Immunology in 1999 at the University of North Carolina, Chapel Hill and conducted her postdoctoral studies at the University of Virginia, Charlottesville. In April, 2002, Dr. Jones accepted a direct commission in the United States Navy, and she has had a variety of challenging assignments focusing on disease surveillance, infectious disease research, biodefense operations, and biological security. She has served as the Head, Bacteriology Department at the Naval Medical Research Center, Detachment, Lima, Peru, Branch Head for Clinical Microbiology at National Naval Medical Center, Bethesda, MD, Navy's Biological Defense Fellow, Silver Spring and Fredrick, MD, Division Officer for the Biological Defense Operations Department at the Naval Medical Research Center, Silver Spring, MD, and Biosecurity and Biosurveillance Lead in the Office of the Assistant Secretary of Defense for Nuclear and Chemical and Biological Defense. Dr. Jones was deployed to Kandahar, Afghanistan from September 2009 to April 2010. Dr. Jones continues to serve as an active duty Naval Officer while on detail to the Executive Office of the President.

speakers

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Dr. Kandasamy has been working as a SRO in NICHD and NIAAA from 2002 and as a Program Manager for the U.S. Army Medical Research and Materiel Command (USAMRMC) overseeing the Congressionally Mandated Research programs from 1999. Before that he was working as a Research Pharmacologist at the Armed Forces Radiobiology Research Institute (AFRRI), Bethesda, MD for more than fifteen years. As the SRO at NICHD and NIAAA, Dr. Kandasamy was responsible for setting up Special Emphasis Panels for a variety of programs and mechanisms including the contract reviews for the Congressionally Mandated National Children's study program (East and West) and National Children's and NICHD biospecimen repository programs, Best Pharmaceuticals for Children Act (BPACA) Data Coordination Centers, Cooperative agreements and Loan Repayment Program (LRP). As a Research Pharmacologist in AFRRI, he developed specific research designs to study the underlying biological mechanisms of radiation, radioprotectants and chemical/biological-induced neurotoxicity, resulting in more than fifty research papers in peer reviewed journals. Dr. Kandasamy earned his BS and MS in Pharmacology degrees from the University of Madras, India and his PhD in Pharmacology from the Pasteur Institute, Paris, France.

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Dr. Cheryl A. Kassed is the Chief of Scientific Operations at Health Analytics, LLC in Columbia, Maryland, a small contract research organization focusing on pharmaco-economic and therapeutic outcomes research. She is responsible for oversight and development of contracted research projects and oversees the scientific integrity of study protocols and all project deliverables. Dr. Kassed also supervises professional staff, developing their capabilities in the areas of data capture and translational science. Prior to her current position, Dr. Kassed was a Senior Research Leader at Thomson Reuters, and the Senior Science Writer for the Director of the National Institute on Drug Abuse. Earlier in her career she taught science to public school students before returning to graduate school to earn a PhD in Medical Sciences, concentrating in neuropharmacology. She received postdoctoral

training (IRTA) at the National Institute of Mental Health and the National Cancer Institute, where her research focused on the molecular basis of brain disorders and behavior. Dr. Kassed holds a PhD and MS in Medical Sciences and an MSPH in Environmental and Occupational Health. She has authored a variety of biomedical journal articles, government reports, scholarly and web-based publications, and articles for the lay public.

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Dr. Kastenmayer is an intellectual property attorney at MedImmune, LLC, where he focuses on client counseling, patent acquisition and patent litigation. Jim was an attorney at the law firm of Finnegan, Henderson, Farabow, Garrett and Dunner prior to joining MedImmune. He has worked at the NIH Office of Technology Transfer, where he assisted in the patenting and licensing of cancer therapeutics and diagnostics. Jim has also conducted postdoctoral studies at the National Cancer Institute on chromosome stability and on the identification and characterization of novel small genes in yeast. He holds a PhD in Biochemistry Cell and Molecular Biology from Michigan State University, a JD from Georgetown University Law Center, and is registered to practice before the United States Patent and Trademark Office.

Christine Mione Kiefer, PhD

Scientist 1

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Dr. Kiefer is a research scientist specializing in gene profiling for R&D pre-clinical programs in Oncology, Respiratory / Autoimmunity / Inflammation, and Infectious Disease at MedImmune. She is also an Adjunct Professor in the Natural and Applied Science Division at Northern Virginia Community College. Dr. Kiefer's postdoctoral research at the National Institutes of Health / NIDDK / Laboratory of Cellular and Developmental Biology with Dr. Ann Dean (2005-2010) focused on the role of chromatin structure in the developmental regulation of genes associated with Sickle Cell Disease and beta-thalassemia. Dr. Kiefer earned her PhD in Molecular Genetics / Biochemistry and Molecular Biology from the University of Florida College of Medicine and her BS in Microbiology and BA in Chemistry from Florida Atlantic University.

Nicole Kresge, PhD

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Dr. Kresge currently is the editor of the American Society for Biochemistry and Molecular Biology's monthly news magazine, *ASBMB Today*. She also is involved with the public relations and communications efforts for the society and its three journals: the *Journal of Biological Chemistry*, the *Journal of Lipid Research*, and *Molecular and Cellular Proteomics*. Before coming to ASBMB, Dr. Kresge spent a year working as a regulatory compliance specialist at Technical Resources International, in Rockville Md. (2003-2004). From 2001-2003, Dr. Kresge did postdoctoral research on mammalian reproduction at the National Institute of Diabetes and Digestive and Kidney Diseases. Dr. Kresge holds a Bachelor of Arts in animal physiology from Cornell University and a doctorate in molecular biology from the Scripps Research Institute.

Christopher MacLauchlin, PhD

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Christopher MacLauchlin earned his bachelor's degrees from the University of North Carolina at Wilmington in 1994 majoring in Marine Biology and Chemistry. In 2001 he received his PhD from the University of North Carolina at Chapel Hill in Medicinal Chemistry, where he investigated diamidine compounds active against *pneumocystis carinii* and the metabolism of their corresponding amidoxime prodrugs. Following graduate school Christopher began his career in industry working for a contract lab (Cardinal Health) in their DMPK group. In 2003, he joined GlaxoSmithKline working in the DMPK department. Christopher is currently a team leader for the Mechanism & Extrapolation Technology group within DMPK. His primary job functions include assessing drug-drug interaction potential through transporters and enzymes for development compounds and representing DMPK on select development compounds.

Peter Mason, PhD

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Dr. Mason is the Head of Microbial Molecular Biology at the Cambridge site of NV&D where he oversees all of NV&D's viral molecular biology research. From 2002 to 2009 he was

a Professor of Pathology and a Senior Scientist in the Sealy Center for Vaccine Development at the University of Texas Medical Branch in Galveston. At UTMB, Dr. Mason developed new methods to produce flavivirus vaccines by using single-cycle replicon particles. From 1990 to 2002 he worked at the United States Department of Agriculture's Plum Island Animal Disease Center where he developed new types of vaccines to protect against infections caused by foot-and-mouth disease virus (FMDV), an important agricultural pathogen that threatens livestock worldwide. By the time he left Plum Island, Dr. Mason was the Head of the Center's FMD Research Unit. Before joining the USDA, Dr. Mason was an Assistant Professor in the School of Medicine at Yale University (1986-1990) where he established a program in flavivirus vaccine development, which extended the work he had begun during his postdoctoral training at the University of Massachusetts. Dr. Mason received a BA in biophysics from Amherst College, and a PhD in biochemistry from the University of Massachusetts at Amherst.

Jhilya F. Mayas, PhD

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Jhilya is a Scientific Supervisor within the Medical Education group at Ogilvy Healthworld in New York, NY. In her role at Ogilvy, Jhilya develops strategic medical education including disease state educational programs, scientific platforms, literature reviews, primary manuscripts, advisory boards, nomenclature development, mechanism of action animations, web content development, and competitive intelligence. Jhilya has worked on indications spanning chronic and neuropathic pain, epilepsy, oncology, osteoporosis, allergy/dermatology, and infectious disease. Jhilya earned a PhD from the departments of microbiology and structural biology at New York University School of Medicine (2007). Her work focused on using biochemical and biophysical strategies to elucidate structural information for Rev, an essential HIV-1 regulatory protein. In addition to conducting research at NYU, Jhilya served as president of the Graduate Student Council, and served as a teaching assistant for the medical school course Medical Microbiology and the graduate course Foundations of Cellular and Molecular Biology. She also developed curriculum for and taught the NIH-mandated Scientific Ethics and Integrity graduate course. Jhilya earned a BS in Biochemistry and Molecular Biology as a Meyerhoff Scholar at the University of Maryland, Baltimore County (2000).

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Roycelynn Mentor-Marcel, PhD, MPH

Biomedical Life Scientist

Science Applications International Corporation (SAIC)
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Dr. Mentor-Marcel is currently working as a Biomedical Life Scientist for Science Applications International Corporation (SAIC) in support of the Department of Defense Congressionally Directed Medical Research Programs (CDMRP) based in Ft. Detrick, MD. She is a member of a multidisciplinary team that supports program management and research proposal funding processes for the U.S. Army. From 2005 to 2009, she was a Cancer Prevention and Control Fellow at NCI/NIH where she received extensive training in the cancer prevention field and conducted nutritional intervention studies in animals and humans to identify biomarkers of response to nutritional interventions for colon cancer prevention. She earned a Master of Public Health degree from Johns Hopkins University as part of the Cancer Prevention Fellowship Program (CPFP). Prior to the CPFP, she completed a CRTA postdoctoral fellowship at NCI/NIH (2003-2005). From 1996-2002, Dr. Mentor-Marcel conducted doctoral research at the University of Alabama at Birmingham on the role of dietary isoflavonoid genistein for the prevention of prostate cancer in a transgenic mouse model. In 2002, she obtained her PhD in Pharmacology with an emphasis on Toxicology. Dr. Mentor-Marcel earned her BS degree in Biology from Oakwood University in Huntsville, Alabama (1996; Magna Cum Laude graduate).

Tamra Meyer, PhD, MPH

Epidemiologist

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Dr. Meyer is currently a civilian epidemiologist with the Department of the Army, Office of the Surgeon General's Pharmacovigilance Center where she performs drug safety studies using medical records from military personnel and their dependents. Prior to joining the Pharmacovigilance Center in June of 2010, Dr. Meyer was a Sallie Rosen Kaplan Postdoctoral Fellow with the National Cancer Institute's (NCI) Division of Cancer Epidemiology and Genetics from 2009-2010. At NCI, she studied the genetic epidemiology of prostate and biliary tract cancers. Dr. Meyer's educational background exists entirely in the state of Texas. She first earned a BS in microbiology from the University of Texas at Austin in 1998 followed by four years of work in the pharmaceutical industry in Raleigh, North Carolina. She returned to Texas to complete an MPH in disease control and epidemiology from the

University of Texas Health Science Center at Houston, School of Public Health (UTHSC-SPH) in 2004 with an emphasis on infectious disease epidemiology, particularly the epidemiology of West Nile Virus. Dr. Meyer then completed her PhD in Epidemiology from UTHSC-SPH in 2008 where she focused on the genetic epidemiology of cardiovascular diseases and prostate cancer.

Larry R. Miller, PhD

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Larry Miller directs communications for the International Partnership for Microbicides (IPM), a non-profit organization developing innovative HIV prevention products. Prior to joining IPM, he spent over 18 years in roles of increasing responsibility in the large pharmaceutical industry, including his last position directing operations and communications functions for the 3,000-person global Drug Discovery Division at GlaxoSmithKline. Previously, he directed all communications and business operations functions in the areas of HIV, diabetes, and obesity drug discovery research and, before that, led drug discovery research in the area of osteoporosis. While working in research and development, Larry actively sought out ways to foster his passion for translating complex science and medical concepts into language that can engage and educate all audiences. These abilities resulted in wide-ranging contributions to GlaxoSmithKline and the industry as a whole on behalf of the Pharmaceutical Research and Manufacturers of America (PhRMA) by working with U.S. and state senators and congress members, foreign dignitaries, investors, corporate partners, patient groups and medical opinion leaders. Before moving to Glaxo, Larry spent over four years conducting allergy research at the NIAMS in Bethesda, MD. He received his BS and PhD in biochemistry from the University of California at Los Angeles (UCLA).

Ilene Karsch Mizrahi, PhD

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Dr. Mizrahi is currently GenBank Coordinator and Section Chief for the Primary Data Archives Section in the Information Engineering Branch of NCBI. She joined NCBI in 1996 as a GenBank Indexer. Prior to that, she held two postdoctoral fellowships. From 1992-1995, she researched the role of *Dmyd* during embryonic muscle development in *Drosophila* in the laboratory of Dr. Bruce Paterson at the National Cancer Institute. From 1991-1992, she investigated hnRNA binding protein genes in the laboratory of Dr. Susan Haynes at the National Institute of Child

Health and Human Development. Dr. Mizrachi earned a BS in Biology at the State University of New York at Albany and her MS and PhD in Microbiology and Immunology at Albert Einstein College of Medicine.

Michelle A. Mondoux, PhD

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Dr. Mondoux is an assistant professor in the Biology Department at the College of the Holy Cross, a selective undergraduate liberal arts college with approximately 2,800 students in Worcester, Massachusetts. Her teaching at Holy Cross has included a non-majors course on the Biology of Aging and a majors course and laboratory in Cell Biology. Research in the Mondoux lab is powered by undergraduates and uses the nematode *C. elegans* as a model to understand the molecular, cellular, and genetic responses to glucose stress. Dr. Mondoux's interest in nutrient stress and insulin signaling began during her postdoctoral fellowship at NIDDK/NIH, where from 2007-2010 she trained in the laboratory of Michael Krause in collaboration with John Hanover. Dr. Mondoux has balanced research and teaching throughout her career: as a postdoctoral fellow, she co-taught Molecular and Cellular Biology at the FAES Graduate School at NIH, and as a graduate student, she taught a freshman writing seminar on Science in the Media as a Quin Morton Teaching Fellow at Princeton University. Dr. Mondoux earned her BA in Biological Sciences from Smith College and her PhD in Molecular Biology from Princeton University.

Elizabeth Rucks Moore, PhD

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Dr. Moore is an Assistant Professor within the Division of Basic Biomedical Sciences in the Sanford School of Medicine at the University of South Dakota in Vermillion, SD. Her laboratory focuses on understanding the role of SNARE protein syntaxin 6 in trafficking to the intracellular vacuole/inclusion formed by obligate intracellular *Chlamydia trachomatis*, an important human pathogen. From 2006-2010, she conducted postdoctoral research in the Laboratory of Intracellular Parasites at the NIAID Rocky Mountain Laboratories in Hamilton, Montana. During her tenure, she developed a polarized cell model of chlamydial infection to examine lipid trafficking to the chlamydial inclusion. Dr. Moore earned her BS degree in Biology from the College of Charleston in Charleston, SC and her PhD in Microbiology and Immunology from West Virginia University in Morgantown, WV.

Claudia Munoz, PhD

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Dr. Munoz is a consultant focused on the healthcare practice area of the Boston Consulting Group, specializing in the pharmaceutical industry. In her two years as a consultant, Dr. Munoz has worked with six of the top 20 pharmaceutical companies, helping them address problems throughout the value chain. These projects have included integration of discover research and early assets after M&A of two top pharmaceutical companies, optimization of lab sample management in a clinical setting, 2020 strategy for R&D, reorganization of clinical development, due diligence for biotech acquisitions, and new business unit strategy development, among others. Dr. Munoz earned her BA degree in Biology from Swarthmore College and her PhD in Molecular Biology with an emphasis on Developmental Genetics from Weill Cornell Graduate School of Medical Sciences in New York.

Elizabeth M. Mutisya, MD

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Biosketch unavailable

Matthew D. Phillips, PhD

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Dr. Matthew Phillips was educated at the University of Rochester, where he graduated with a BS in Biological Sciences. He then went to work at Anesthesia Recording, Inc., a biomedical software company founded and run by his parents. At the company, Matthew took on the roles of systems tester and software/hardware implementer. Meanwhile, Matthew was accepted to the PhD Biology program at Pennsylvania State University, where he was supervised by Dr. Graham Thomas. Using a combination of molecular genetics and fluorescence microscopy, he obtained data for a thesis on the generation and maintenance of intestinal cell polarity during *Drosophila* larval development. While at Penn State, Matt taught many laboratory classes and was active in the Graduate Student Association. In 2005, Matthew joined the laboratory of Dr. Heiner Westphal at the National Institutes of Health as a postdoctoral fellow, where he worked on the growth and development of the heart in mice. In 2010, Matthew joined the inaugural class of INNoVATE, a training and support program for biotech entrepreneurs. Later that year, he moved to Dr. Pamela Robey's lab, where he began working with human

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reprogrammed stem cells and adult stem cells in order to improve the healing of bone diseases and fractures.

Brian Oscar Porter, MD, PhD, MPH

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Dr. Porter is a Medical Officer in the FDA's Division of Pulmonary, Allergy, and Rheumatology Products, working as a Primary Clinical Reviewer evaluating the safety and effectiveness of both marketed drugs and those currently in development. From 2006 to 2009, he completed a Fellowship in Allergy and Immunology at the NIAID, focusing on clinical research in primary and acquired immunodeficiency, after which he served as an NIH Adjunct Intramural Investigator for one and a half years, concurrently with his work at the FDA, as Principal Investigator on two NIH clinical trials. Dr. Porter remains actively engaged in clinical practice as a Medical House Officer at Holy Cross Hospital in Silver Spring, Maryland. From 2002 to 2006, Dr. Porter completed a Combined Internal Medicine and Pediatrics Residency at Virginia Commonwealth University Medical Center. Prior to this, he finished his medical and research training at the University of Miami School of Medicine, where he graduated with a PhD in Immunology and Microbiology in 2000 and an MD in 2002. In between, he completed an MPH in Family and Community Health, with a focus on maternal-child health and healthcare policy, at the Harvard School of Public Health in 2001. Dr. Porter completed his BS degree in Biological Sciences at Cornell University in 1992.

Jayne Raper, PhD

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Dr. Raper is a principle investigator in the Department of Microbiology at New York University School of Medicine. She is currently managing a program project (NSF/Gates) to generate transgenic cows that will be resistant to all forms of African trypanosomes. This will allow the small holder farmer to raise cattle in the tsetse fly belt in Sub-Saharan Africa, and potentially eliminate a reservoir of human-infective parasites. She joined the NYU faculty in 1995 and has been focused on the host-parasite interaction of African trypanosomes and primates. She has also taught medical and graduate student courses throughout her time at NYU. In the past five years she has been involved in the selection of junior faculty candidates in three different departments

with three different Chairs of diverse styles and would be happy to discuss the decision points. Dr. Raper conducted her postdoctoral research at the ICP, Brussels, Belgium and Johns Hopkins School of Medicine on African trypanosomes. Dr. Raper earned her PhD in Biochemistry from the University of Cambridge and her BSc degree in Biochemistry and Genetics from the University of Newcastle Upon Tyne, England.

Terrie Rife, PhD

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Dr. Rife is an Associate Professor of Biology at James Madison University (JMU) where she teaches Advanced Molecular Biology, BIO 480, to biology and biotechnology juniors and seniors; Cell and Molecular Biology, BIO 214, to sophomores; and a general biology course to students who wish to go on to becoming K-8 teachers. As a part of her work at JMU, she also maintains a small research laboratory where she studies transcriptional regulation of nitric oxide synthase in cell culture and animal models. She is particularly interested in understanding the changes that happen during the development of metabolic syndromes. She typically has two to three undergraduate students who help her in the lab. She did a postdoc position for a few months at Ohio State University before getting a three-year instructor position at JMU in 1999 that was converted to a tenure-track position in 2002. She obtained tenure in 2008. Dr. Rife earned her BS degree in Biochemistry from the Michigan State University, E. Lansing, MI and her PhD in Biochemistry from the Ohio State University, Columbus, OH.

Robert Rosenberg, PhD

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Bob Rosenberg is Professor of Biology and member of the Neuroscience program at Earlham College. He teaches Cells, Genes, and Inheritance (an introductory biology course), Cell Physiology, Anatomy & Physiology, and Topics in Neuroscience, and is developing an upper-level neuropharmacology course. His research focuses on the molecular pharmacology of neuronal nicotinic receptors and the conformational changes associated with receptor activation and modulation. He is engaged in research projects with undergraduate students using a combination of techniques in molecular biology, electrophysiology, and biochemistry. From 1988 to 2009, Bob was at the University of North Carolina at Chapel Hill, where he was Professor of Pharmacology and Cell & Molecular Physiology. Dr. Rosenberg

was also Director of Graduate Studies in Pharmacology from 1995 to 1999 and Director of the Curriculum in Neurobiology from 2006 to 2009. He served as the advisor for seven PhD students and fourteen undergraduate summer students. Bob earned his BA degree in Physics from Oberlin College and his PhD in Physiology from Yale University.

James S. Saunders, PhD

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Professor Department of Chemistry
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Dr. Saunders research interests are in plant biochemistry of secondary natural products, plant/insect interactions, sub-cellular localization, drugs of abuse, smoking and tobacco issues, and the chocolate industry; his expertise is in molecular biology with emphasis on DNA fingerprinting, gene transfer and gene expression methodology. He has published 96 career publications, edited 9 books, and made over 250 scientific presentations. He serves on numerous advisory boards for business and academic institutions, and has participated in teaching at more than 10 different university settings and obtained approximately \$3,200,000 in career grants and contracts. He has served in a variety of teaching and mentoring organizations developing enhanced experiences for K-12 and college science activities. These have included participation in more than 250 science fairs, development of teacher recertification courses and workshops both nationally and internationally, directed internship programs to provide over 1000 students with individual research experiences at both high school and college levels, developed curricula for multiple biotechnology programs, and served on advisory boards for more than a dozen academic and scientific organizations. Dr. Saunders received a BA from University of South Florida (1967-1971) and his PhD from Miami University, OH (1971-1975) and did his postdoc in Department of Biochemistry & Biophysics at University of California at Davis (1975-1977). He spent 26 years with the USDA in Beltsville, MD (1977-2003) and seven years as Director of Molecular Biology, Biochemistry & Bioinformatics at Towson University (2004-2011).

Alisa Schaefer, PhD

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Dr. Schaefer received her BA in neuropsychology from McGill University in Montreal, Canada in 1998. She worked in investment banking for several years before attending graduate school at

Uniformed Services University of the Health Sciences (USUHS) in Bethesda, Maryland. Dr. Schaefer's research focused on repairing damaged brain using embryonic stem cells in animal models. Dr. Schaefer received research fellowship awards from the National Science and Engineering Research Council of Canada as well the Henry Jackson Foundation. She received her PhD in 2007. During her postdoctoral training at USUHS, Dr. Schaefer also interned at Fogarty International Center, NIH. In 2008, Alisa Schaefer joined NCCR's Office of Science Policy as an AAAS Science Policy Fellow. In the spring of 2010, Dr. Schaefer spent 3 months on detail in the Small Business Innovation Research (SBIR) Office at the National Cancer Institute, where she gained firsthand knowledge of ways to enhance SBIR initiatives. In August 2010, Dr. Schaefer was hired by NCCR as a full time employee where she joined the Office of the Director as Advisor for Global Outreach. Dr. Schaefer is spearheading NCCR's international activities and is involved on a number of public-private partnerships as well as translational research program initiatives.

Derek T. Scholes, PhD

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Derek T. Scholes, PhD is a Government Affairs Manager in the American Heart Association's advocacy office in Washington, DC. Dr. Scholes advocates for legislative and regulatory priorities in the area of prevention, including obesity, tobacco and personalized medicine. Prior to joining the association in 2007, Dr. Scholes was a Genetics and Public Policy Fellow in the Health Policy Office of Senator Edward M. Kennedy within the Committee on Health, Education, Labor, and Pensions. Before his work on the Hill, Dr. Scholes worked in the Office of the Director at the National Human Genome Research Institute, National Institutes of Health. He earned his BSc degree in genetics and PhD from the University of Liverpool, United Kingdom, and completed his post-doctoral training at the New York State Department of Health's Wadsworth Center laboratories in Albany, NY. With a keen interest in issues affecting young scientists, Dr. Scholes has served as Vice Chair on the board of the National Postdoctoral Association.

Cherise P. Scott, PhD, MPH

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Cherise Scott is the Scientific Liaison to the Stop TB Partnership Working Group on New Drugs. Prior to joining the TB Alliance, Dr. Scott has worked as the Assistant Director, Clinical QA and Training, for the Aeras Global TB Vaccine Foundation

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helping prepare clinical research sites to conduct clinical trials according to applicable international regulations and guidelines. She also worked with the Sabin Vaccine Institute as the Director of QA for the Human Hookworm Vaccine Initiative working in both preclinical and clinical areas of vaccine development. Dr. Scott has extensive experience in the GXP's and has focused on implementation of quality management systems in organizations in various African countries, Brazil, Australia, India, and China. In addition, she served as instructor for online academic courses on clinical trial design and Good Clinical Practice (GCP) at Johns Hopkins University. Dr. Scott has a heart for capacity building for research in developing countries, and is co-owner of a consultancy firm CLEAR, Inc. Dr. Scott received her PhD in International Health with a concentration in vaccine sciences from Johns Hopkins Bloomberg School of Public Health. She has a Master of Public Health (MPH) degree and BS in Biology from Florida A & M University.

Erika Shugart, PhD

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Dr. Erika Shugart, Deputy Director, oversees the development of new exhibits for the Koshland Science Museum as well as the museum's web site. She joined the staff in 2003 prior to the museum's grand opening in April, 2004. Before working at the museum, Erika directed the National Academy of Sciences' Office on Public Understanding of Science, managing several projects including the article series *Beyond Discovery*. Erika began her career at the National Academies as an intern with the Board on Biology. Erika also worked at the Office of Policy Analysis at the National Institute of Allergy and Infectious Diseases, NIH. She received her PhD in biology from the University of Virginia in 1997.

Debra Silver, PhD

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Dr. Silver is a new Assistant Professor in the Department of Molecular Genetics and Microbiology and Duke Institute of Brain Sciences at Duke University Medical Center. She began her position in September of 2010. The focus of her lab is on the genetic and cellular mechanisms regulating neural stem cells of the developing brain. From 2003 to 2010, Dr. Silver was a Postdoctoral

Associate in the National Human Genome Research Institute in Dr. Bill Pavan's lab studying neural crest and neural stem cells. Dr. Silver got her PhD in 2003 at Johns Hopkins University School of Medicine with Dr. Denise Montell studying cell migration in *Drosophila*. Prior to that, she worked as a technician at the National Heart Lung and Blood Institute with Dr. Jim Sellers. Dr. Silver earned her BS in Biology from Tufts University in 1993.

Mirit Snir, PhD

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Dr. Snir is director of Industrial Relations at BioAbroad. Recently she also established a startup. She received her PhD from the Technion - Israel Institute of Technology's Biochemistry Department, directed by Nobel laureate Avram Hershko. She is a member of the first team in the world to succeed in establishing a unique model of heart cells derived from human embryonic stem cells lines. She was the first to show that early embryonic heart cells can divide and, therefore, have a great potential in transplantation in damaged hearts. Dr. Snir conducted 2 years of post doctorate research at the National Human Genome Research Institute at the NIH. Then she decided to use her medical background to help biotechnology companies write patents. Since 2008 she was working at Finnegan doing a patent work and initiated the "Israeli practice at Finnegan".

Debra Speert, PhD

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Dr. Speert is the Public Information Manager for the Society for Neuroscience where she develops neuroscience content for lay audiences. Before assuming her current role at the Society for Neuroscience, she was a Science Writer/Editor at the same organization (2008-2009). From 2006-2008, Dr. Speert was an Assistant Editor of Web Publishing for Nature Publishing Group, where she worked on the Neuroscience Gateway website. She conducted postdoctoral research at the University of Maryland School of Medicine on sexual differentiation of the brain (2003-2006). Dr. Speert earned her BA degree in Biology with a concentration in Neurobiology and Physiology from Northwestern University and her PhD in Neuroscience from the University of Michigan, where she studied a hormone binding-protein involved in stress.

Amber D. Steele, PhD

Primary Examiner

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Dr. Steele is a Primary Examiner in Art Unit 1639 (Combinatorial Biological and/or Organic Chemical Libraries and/or Arrays) at the United States Patent and Trademark Office (USPTO). At the USPTO, Examiner Steele is responsible for determining the patentability of inventions related to cellular, polypeptide, polynucleotide, and chemical microarrays; cellular, viral, polypeptide, polynucleotide, and chemical libraries; apparatuses; nanotechnology; surface display of polypeptides including phage display; and combinations thereof via searching various databases for prior art; analyzing case law; adhering to MPEP standards, United States Code, and Code of Federal Regulations; and determining utility, written description, and enablement of the claimed invention. She joined the USPTO in 2005 after conducting postdoctoral research at both the National Cancer Institute and the Food and Drug Administration. Dr. Steele earned her BS in Biology with an emphasis on Cellular Biology from Saint Vincent College and her PhD in Microbiology and Immunology from Temple University School of Medicine.

Stacy Suskauer, MD

Director of the Brain Injury Program

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Dr. Suskauer is a pediatric rehabilitation medicine physician at the Kennedy Krieger Institute and Johns Hopkins University School of Medicine. She completed a combined residency training program in Pediatrics and Physical Medicine & Rehabilitation at the Cincinnati Children's Hospital Medical Center/University of Cincinnati (2000-2005) and then completed a T32 research fellowship in Brain Injury Rehabilitation Research at Kennedy Krieger Institute (2005-2007). Dr. Suskauer subsequently received a K12 mentored research award from the Rehabilitation Medicine Scientist Training Program (RMSTP) to develop research skills in the area of brain-behavior relationships after pediatric traumatic brain injury (TBI), including the application of anatomic neuroimaging techniques to this population (2007-2009). Dr. Suskauer is currently funded by a K23 award from NICHD to further her career development in the area of longitudinal studies of brain-behavior relationships after pediatric TBI. Her clinical work consists of outpatient and inpatient care and includes evaluation and treatment of children across the

spectrum of TBI severity, from children with concussion to children with disorders of consciousness following very severe TBI. Dr. Suskauer earned her BS degree in Biology from Duke University and her MD from the Duke University School of Medicine.

John Verburg, PhD

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Dr. Verburg is a Senior Technology Specialist with Life Technologies (formerly Invitrogen Corporation), and is currently responsible for Life Technologies' oligonucleotide business in North America. Dr. Verburg joined Invitrogen in 2005 as a Technology Specialist supporting the Gene Expression and Profiling business, and transitioned to his current role in 2011. From 2000 to 2005, he was Senior Staff Scientist responsible for the development of antigen expression and manufacturing systems at Dendreon Corporation, a Seattle-area biotechnology company focused on the treatment of breast and prostate cancer. From 1991 to 2000, he held various positions, ultimately Director of Molecular Biology, with MDS Pharma Services (formerly Panlabs, Incorporated), a Seattle-area Contract Research Organization offering a broad range of molecular biology services to the international biotech and pharma communities. From 1989 to 1991, Dr. Verburg conducted postdoctoral research on fungal disease resistance mechanisms in plants while working in the protein engineering department of Monsanto Corporate Research in St. Louis, MO. Dr. Verburg earned his BS degree in Chemistry from the California State University, Bakersfield and in 1989, his PhD in Chemistry from the University of California, San Diego.

Shayla West-Barnette, PhD

Consumer Safety Officer

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Dr. West-Barnette is a Consumer Safety Officer in FDA/CFSAN's Office of Food Additive Safety, where she has worked since 2008. Prior to accepting the position at FDA, Dr. West-Barnette was a Postdoctoral Research Fellow at the National Institute of Dental and Craniofacial Research/NIH (2007-2008). During this time, her research focused on determining how the formation of multispecies bacterial communities affects gene regulation of individual participants. Dr. West-Barnette earned her BS in Biology from Bennett College in Greensboro, NC, and her PhD in Microbiology and Immunology from Wake Forest University in Winston-Salem, NC. Her doctoral research focused on microbial pathogenesis.

speakers (wo)

Lauren V. Wood, MD

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Dr. Lauren V. Wood is a board certified Allergist/Immunologist and Head of the Vaccine Branch Clinical Trials Team. She earned her BA degree in biology from Oberlin College and her MD from Duke University School of Medicine. She completed a combined residency in Internal Medicine and Pediatrics at Baylor College of Medicine Affiliated Hospitals in Houston, TX and became board certified in both specialties. Dr. Wood then came to NIAID for a fellowship in Allergy and Immunology and spent two years in the laboratory of Dr. Anthony Fauci investigating HIV-specific cellular and humoral immune responses. Following completion of her fellowship, she worked for a year with Drs. Henry Masur and H. Clifford Lane in the NIAID HIV/AIDS Clinical Research Program before being recruited to the NCI in 1992 by Dr. Philip Pizzo. As a member of the senior staff of the Pediatric HIV Working Group initially under Dr. Pizzo and subsequently under Dr. Robert Yarchoan, her clinical research focused on the investigation of antiretroviral agents and immune-based therapies in HIV-infected children, adolescents, and young adults, including the initial studies of lamivudine (3TC) and ritonavir that led to FDA approval for their use in children. Dr. Wood also conducted studies of recombinant IL-2, HIV therapeutic vaccines and adherence to antiretroviral treatment in addition to investigating the infectious, malignant and psychosocial complications of pediatric HIV disease in collaboration with other NCI colleagues. In 2005 Dr. Wood joined the newly formed Vaccine Branch and was charged with developing a clinical translational research program which she now heads. Dr. Wood is an Assistant Professor at the Uniformed Services University of the Health Sciences and is a Captain in the U.S. Public Health Service. She has served on multiple FDA, White House and other interagency advisory, review and data safety monitoring committees, in addition to the publication and invited presentation of her work at national and international scientific meetings.

resources

NIH OFFICE OF INTRAMURAL TRAINING & EDUCATION (OITE)

<http://www.training.nih.gov/>

NIH IC TRAINING OFFICES

See Institute/Center Web sites

<http://www.nih.gov/icd/index.html>

PRIOR OITE VIDEOS:

https://www.training.nih.gov/oite_videocasts

COMMUNICATION

- Improving Spoken English
- Written Communication Skills
- Scientific Writing from the Reader's Perspective
- Talking Science: Designing and Delivering
 - Successful Oral Presentations
- Creating and Presenting a Dynamic Poster
- Communicating Science: Tools for Scientists and Engineers

SCIENCE SKILLS

- Successfully Publishing a Scientific Paper
- Mentoring Training Seminar:
 - Summer Interns are Coming: Are You Ready?

GRANTS AND GRANT WRITING

- Introduction to Grant Writing I:
 - Demystifying the NIH Grant Review Process
- Introduction to Grant Writing II: Strategies for Writing
 - Effective Training and Research Plans
- Research Plans
- K99/R00 Grants
- e-Submission of K Grants
- NIH K99/R00 Grants

JOB SEARCH

- CVs and Resumes: Essential Job Search Documents
- Networking! Networking! Networking!
- Interviewing Etiquette and Skills
- Getting the Most Out of a Job Fair
- Career Counseling Workshop:
 - Planning for a Career Satisfaction and Success
- Finding a Postdoc

INDUSTRY CAREERS

- An Overview of Careers in Industry for PhD Scientists
- The Industry Job Search:
 - Navigating the Application Process
- Resumes and Cover Letters for Industry
- Interviewing Outside the Ivory Tower
- Business Etiquette
- Making the Transition to Industry
- Academic vs Industry Job Interviews

ACADEMIC CAREERS

- Academic Job Search Overview
- Academic Job Interviews
- How to Give an Effective Job Talk
- Evaluating Positions and Negotiating Job Offers
- Transitioning Successfully from Postdoc to Faculty

NON-BENCH CAREERS

- Non-Bench Careers for Scientists at NIH
- "How-to": Careers in Science Education and Outreach
- "How-to": Careers in Regulatory Affairs
- "How-to": Careers in Tech Transfer
- "How-to": Careers in Science Policy
- "How-to": Careers in Global Health
- Careers in Marketing

CAREER EXPLORATION

- Exploring Careers
- Careers in Psychology
- Public Health from Admissions to Career Opportunities
- Careers in Science Policy
- Science Policy: Shaping the Role of Science in Society

NIH LINKS: SCIENTIFIC INTEREST GROUPS

<http://www.nih.gov/sigs/sigs.html>

GENERAL CAREER LINKS:

The following list of resources was compiled by the Career Symposium Steering Committee. These are provided for your reference, and do not imply endorsement by the OITE or the NIH. Additionally, this is just a partial list of the wealth of information available to you in print and online.

BioSpace

<http://www.biospace.com>

BioCareers

<http://www.biocareers.com>

The National Postdoctoral Association

<http://www.nationalpostdoc.org/>

Science Careers

<http://sciencecareers.sciencemag.org/>

Nature Jobs

<http://www.nature.com/naturejobs/index.html>

LinkedIn

<http://www.linkedin.com/>

NIH Intramural Group on LinkedIn

<http://www.linkedin.com/groups?mostPopular=&gid=1404617>

Examples of Professional Societies (not an exhaustive list)

<http://www.acs.org>

<http://www.faseb.org>

<http://www.toxicology.org>

<http://www.aacr.org>

<http://www.sfn.org>

<http://www.the-aps.org>

<http://www.healthra.org>

BOOKS AND OTHER RESOURCES

*Available for NIH trainees in the OITE Career Library in Building 2

What Color is your Parachute by Richard Bolles *

Do What You Are, by Paul Tieger and Barbara Baron *

Alternative Careers in Science, Second Edition: Leaving the Ivory Tower (Scientific Survival Skills) Editor: Cynthia Robbins-Roth *

Guide to Non-traditional Careers in Science by Karen Young Kreeger *

Career Advice for Life Scientists Volumes I, II, and III Editor: Elizabeth Marincola (The American Society for Cell Biology) *

So What are You Going to Do With That?: Finding Careers Outside Academia by Susan Basalla and Maggie Debelius *

Putting Your Ph.D. to Work by Peter Fiske *

Academic Scientists at Work: Navigating the Biomedical Research Career by Jeremy M. Boss and Susan H. Eckert *

Tomorrow's Professor: Preparing for Careers in Science and Engineering by Rick Reis *

A Ph.D. is Not Enough!: A Guide to Survival in Science by Peter J. Feibelman *

At the Helm by Kathy Barker *

The American Society for Cell Biology Publications (Career Resource Booklets)

http://www.ascb.org/index.php?option=com_content&view=article&id=391&Itemid=318

Career Development for Chemists Book List

<http://www.balbes.com/Careers/books.html>

ONLINE RESOURCES

Howard Hughes Medical Institute: Online Resources for Scientists

<http://www.hhmi.org/resources/scientists.html>

Science Careers Booklets

http://sciencecareers.sciencemag.org/tools_tips/outreach/booklets

Science Careers Tooling Up: Playing the Name Game by David Jensen

http://sciencecareers.sciencemag.org/career_magazine/previous_issues/articles/2011_02_18/caredit.a1100015

Naturejobs: Career Toolkit

<http://www.nature.com/naturejobs/career-toolkit/>

Science Careers Blog: Seeking the Alternative by Kate Travis

<http://blogs.sciencemag.org/sciencecareers/2010/09/alternative-careers.html>

SALARY INFORMATION

Naturejobs: Salaries

<http://www.nature.com/naturejobs/career-toolkit/salaries/>

Glassdoor.com

<http://www.glassdoor.com/Salaries/index.htm>

Mysalary.com:

Browse Average Salary Ranges for Pharmaceutical Jobs

<http://www1.salary.com/Pharmaceuticals-Salaries.html>

U.S. Office of Personnel Management: Salaries & Wages

<http://www.opm.gov/oca/11tables/html/dcb.asp>

TheScientist: Life Sciences Salary Survey, 2010

http://www.the-scientist.com/fragments/salary_survey/2010/ss-charts2010.jsp

PayScale Blogs: Average Salary of Jobs in Nonprofit

<http://blogs.payscale.com/compensation/2010/01/average-salary-of-jobs-in-nonprofit.html>

The Chronicle of Higher Education: AAUP Faculty Salary Survey

<http://chronicle.com/stats/aaup/>

ADDITIONAL TRAINING AND CERTIFICATE PROGRAMS

FAES Certificate Programs

http://faes.org/grad/certificate_programs

Link to FAES Catalog: Courses on Technology Transfer, Patent Prosecution, Intellectual Property, and Other Business Courses

<http://www.faes.org/course-catalog>

Grant Management Training for Nonprofit Applicants and Recipients

<http://www.epa.gov/ogd/training/>

Grant Writing and Grants Management Training Workshops & Seminars

<http://grantwritingusa.com/>

University of Maryland: Transition from Laboratory to Classroom Program

<http://www.education.umd.edu/EDCI/info/tlc.htm>

ACTiVATE® Program at UMBC: Achieving the Commercialization of Technology Through Applied Training for Entrepreneurs

<http://www.umbc.edu/activate/>

The INNoVATE Entrepreneurship Training Program

http://carey.jhu.edu/our_programs/Innovate/index.html

Science Writing Certification Program at the University of California, Santa Cruz

<http://scicom.ucsc.edu/SciWriting.html>

The Science, Health and Environmental Reporting Program (SHERP) at New York University

<http://journalism.nyu.edu/graduate/courses-of-study/science-health-and-environmental-reporting>

FELLOWSHIP OPPORTUNITIES

FDA: Commissioner's Fellowship Program

<http://www.fda.gov/AboutFDA/WorkingatFDA/FellowshipInternshipGraduateFacultyPrograms/CommissionersFellowshipProgram/default.htm>

AAAS Science & Technology Policy Fellowships

<http://fellowships.aaas.org/>

AAAS Mass Media Science and Engineering Fellows Program

<http://www.aaas.org/programs/education/MassMedia/>

AAAS Policy Fellowship Resource Page

http://fellowships.aaas.org/11_Resources.shtml#otheropp

NCI Cancer Prevention Fellowship

<http://www3.cancer.gov/prevention/pob/index.html>

NCI Health Communications Internship Program

<https://hcup.nci.nih.gov/hcup/>

Presidential Management Fellows Program

<https://www.pmf.opm.gov/>

National Human Genome Research Institute:

Genetics and Public Policy Fellowship

<http://www.genome.gov/10003979>

NIH Intern Programs

<http://www.jobs.nih.gov/intern/default.htm>

Christine Mirzayan Science & Technology Policy Graduate Fellowship Program

<http://sites.nationalacademies.org/PGA/policyfellows/index.htm>

Teach for America: Help Ensure Educational Opportunity for All

<http://www.teachforamerica.org/>

Scientists and Engineers for America:

Science Policy Fellowships

<http://sharp.sefora.org/chapters/science-fellowships/>

Federal Government Jobs

Nature Jobs article: "The Hunt for New US Drug Regulators" by Virginia Gewin

<http://www.nature.com/naturejobs/2008/080619/full/nj7198-1140b.html>

Nature Jobs article: "Fellowships at the FDA" by Virginia Gewin

<http://www.nature.com/naturejobs/2008/080911/full/nj7210-260b.html>

USAJOBS

<http://www.usajobs.gov>

US Patent and Trademark Office

<http://www.uspto.gov/>

Scientists of the US Public Health Service

<http://usphs-scientist.org/>

Working at FDA

<http://www.fda.gov/AboutFDA/WorkingatFDA/>

National Science Foundation: Career Opportunities

http://www.nsf.gov/about/career_opps/

Opportunities at CDC

<http://www.cdc.gov/about/opportunities.htm>

NIH jobs

<http://jobs.nih.gov>

Research Program Management: Helping Scientists and Facilitating Research as an NIH Scientist-Administrator by W. Sue Schafer

http://sciencecareers.sciencemag.org/career_magazine/previous_issues/articles/2000_05_05/noDOI.5409093196260992396

Meet a Real Program Analyst, Dennis Askwith

<http://science.education.nih.gov/LifeWorks.nsf/Interviews/Dennis+Askwith>

NIH Office of Science Policy

<http://osp.od.nih.gov/>

NIH Center for Scientific Review
<http://cms.csr.nih.gov/>

NIH Office of Technology Transfer
<http://www.ott.nih.gov/>

Opportunities at the NIH for Non-U.S. Citizens
<http://www.jobs.nih.gov/jobsearch/noncitizen.htm>

CAREERS IN NON-PROFITS

Science Careers article: "Mastering your Ph.D.: Exploring Nonprofit Organizations" by Patricia Gosling
http://sciencecareers.sciencemag.org/career_development/previous_issues/articles/2008_05_02/caredit_a0800065

Science Careers article: "Public Health Goes Global" by Sarah Webb
http://sciencecareers.sciencemag.org/career_development/previous_issues/articles/2008_03_21/caredit_a0800041

Society for Neuroscience: Public Education and Outreach
<http://www.sfn.org/index.aspx?pagename=PublicInformationOutreach>

American Physiological Society: Policy Action Center and Advocacy Links
<http://www.the-aps.org/pa/advocate/advocatelinks.htm>

American Public Health Association: Advocacy and Policy
<http://www.apha.org/advocacy/activities/>

Association of Fundraising Professionals
<http://www.afpnet.org/>

National Grants Management Association (NGMA)
<http://www.ngma.org/>

Grants Management Training and Resources
<http://e-grants.ed.gov/training/>

Idealist: Jobs in Nonprofits
<http://www.idealists.org/>

Communication of Science

Science Careers article: "Working as a Medical Writer" by Sarah Webb
http://sciencecareers.sciencemag.org/career_development/previous_issues/articles/2007_06_22/caredit_a0700088

Nature Jobs article: "Dabbling in Science Journalism" by Lina Nordquist
<http://www.nature.com/naturejobs/2006/060209/full/nj7077-760b.html>

Nature Jobs article: "Putting Pen to Paper" by Virginia Gewin
<http://www.nature.com/nature/journal/v432/n7015/full/nj7015-418a.html>

Science Careers article: "Getting the Message Across: Scientists in Public Relations" by Kirstie Urquhart
http://sciencecareers.sciencemag.org/career_magazine/previous_issues/articles/2003_05_02/noDOI.10324340029161589304

Science Careers article: "From Science Ph.D. to Science PR: A Week in My Life" by Emma Murray
http://sciencecareers.sciencemag.org/career_magazine/previous_issues/articles/2003_05_02/noDOI.6068577704842891954

About.com article: "How to Become a Medical Science Liaison" by Andrea Santiago
<http://healthcareers.about.com/od/healthcareerprofiles/p/MedSciLiaison.htm>

AAAS Communicating Science: Tools for Scientists and Engineers
<http://communicatingscience.aaas.org/Pages/newmain.aspx>

The American Medical Writer's Association
<http://www.amwa.org>

The National Association of Science Writers (additionally look for DC chapter)
<http://www.nasw.org>

Council of Science Editors
<http://www.councilscienceeditors.org>

Council for the Advancement of Science Writing
<http://casw.org/casw/guide-careers-science-writing#E>

The World Federation of Science Journalists
<http://www.wfsj.org/resources/>

The Science Communication Network
<http://www.sciencecommunicationnetwork.org/>

The Health and Science Communications Association
<http://www.hesca.org/>

Science Media Group
<http://www.cfa.harvard.edu/smg/>

New Science Journalism Project
<http://www.newsciencejournalism.net/>

The Public Library of Science (PLOS) Blogs Network
<http://blogs.plos.org/blogosphere/>

ACADEMIC — GENERAL

Academic Scientists at Work: Navigating the Biomedical Research Career by Jeremy M. Boss and Susan H. Eckert

University of Illinois at Urbana-Champaign Booklet: Academic Job Offers and Negotiations
<http://www.grad.uiuc.edu/Careerservices/academic/offers/AcademicNegotiationsHandout.pdf>

Science Careers:

Moving Up the Academic Ladder by Laura Bonetta
http://sciencecareers.sciencemag.org/career_magazine/previous_issues/articles/2011_02_11/science.opms.r1100100

Naturejobs: Tips for Job Hunting in Dual-Career Relationships by Rachel Bowdon
<http://blogs.nature.com/naturejobs/2011/02/14/tips-for-job-hunting-in-dual-career-relationships>

Academic Careers Online
<http://www.academiccareers.com/>

HigherEdJobs
<http://www.higheredjobs.com/>

Academic Employment Network
<http://www.academemploy.com/>

Transitions Abroad
<http://www.transitionsabroad.com/>

Carnegie Foundation for the Advancement of Teaching
<http://www.carnegiefoundation.org/>

Academic360: Academic Job Hunting Resources
<http://www.academic360.com/>

Academic Careers Online: Listings for Teaching, Education, Research and Professional Jobs
<http://www.academiccareers.com/>

Academic Keys: Listings for Academic Jobs
<http://academickeys.com/>

The Chronicle of Higher Education: Information and Jobs for Faculty and Administrators
<http://chronicle.com/section/Home/5>

Academic Employment Network: Primary, Secondary, and University Jobs and Resources
<http://www.academemploy.com/>

TENURE-TRACK CAREERS

UC-Berkeley Career Center: Academic Job Search
<https://career.berkeley.edu/PhDs/PhDAcademic.stm>

Making the Right Moves: A Practical Guide to Scientific Management for Postdocs and New Faculty by Howard Hughes Medical Institute
<http://www.hhmi.org/resources/labmanagement/moves.html>

NIH Office of Extramural Research: Grant Application Basics
http://grants.nih.gov/grants/grant_basics.htm

Science Careers: GrantsNet
<http://sciencecareers.sciencemag.org/funding>

Career Guide for Scientists: Getting Tenure
<http://www.phds.org/career-guide/getting-tenure/>

Faculty Positions: Seeking the Skills for a Successful Career in Academia by Emma Hitt
http://sciencecareers.sciencemag.org/career_magazine/previous_issues/articles/2008_01_25/science.opms.r0800046

Feature Index: Work and Life in the Balance by Kate Travis
http://sciencecareers.sciencemag.org/career_magazine/previous_issues/articles/2007_12_07/caredit.a0700174

The University of Chicago Career Advising and Planning Services: Academic Job Resources
<https://caps.uchicago.edu/resourcecenter/academic.html>

Howard Hughes Medical Institute: Resources for the Development of Early-Career Scientists
<http://www.hhmi.org/resources/labmanagement/>

Enlisting Investigators (Alternative funding sources)
<http://www.nature.com/naturejobs/2010/100729/full/nj7306-656a.html>

NON-TENURE TRACK ACADEMICS AND GOVERNMENT

The Incredible Shrinking Tenure Track by Beryl Liefie Benderly
http://sciencecareers.sciencemag.org/career_magazine/previous_issues/articles/2004_07_02/noDOI.17522077037716206232

Naturejobs: Bioinformatics: Curation Generation by Katherine Sanderson
<http://www.nature.com/naturejobs/2011/110210/full/nj7333-295a.html>

NIH Staff Scientists/Staff Clinicians Organization
http://sigs.nih.gov/NIH_SSSC/Pages/default.aspx

Non-Tenure Track Jobs
<http://jobs.phds.org/non-tenure-track>

The Chronicle of Higher Education: Negotiating the Non-Tenure Track by Cathy Trower
<http://chronicle.com/article/Negotiating-the-Non-Tenure-/45495>

Adjunct Nation: Resources and Jobs for Temporary Faculty
<http://www.adjunctadvocate.com>

The Association of Biomedical Resource Facilities
<http://www.abrf.org>

American Association of American University Professors Report: Status of Non-Tenure Track Faculty
<http://www.aaup.org/AAUP/comm/rep/nontenuretrack.htm>

NIH Staff Scientist Appointment Guidelines
<http://www1.od.nih.gov/oir/sourcebook/prof-desig/staff-sci.htm>

PhDs.org Non-Tenure Track jobs
<http://jobs.phds.org/non-tenure-track>

CAREERS IN TEACHING AND PUBLIC OUTREACH

Science Careers: "Training Scientists How to be Better Teachers" by Victoria McGovern

http://sciencecareers.sciencemag.org/career_magazine/previous_issues/articles/1999_04_09/noDOI.1809508717705241831

Science Careers: "Community College Faculty: Must Love to Teach" by Sarah Webb

http://sciencecareers.sciencemag.org/career_magazine/previous_issues/articles/2007_05_25/credit.a0700074

Science Careers: "From Bench Top to Blackboard: Resources for Making the Transition" by Next Wave Staff

http://sciencecareers.sciencemag.org/career_magazine/previous_issues/articles/2002_07_05/noDOI.14629871311844632971

Careers in Science Education and Outreach

<http://oitecareersblog.wordpress.com/2010/11/30/careers-in-science-education-and-outreach/>

The National Association of Biology Teachers

<http://www.nabt.org>

NAFSA: Association of International Educators

<http://www.nafsa.org/index.aspx>

Great Teacher

<http://www.greatteacher.net>

NIH Office of Science Education

<http://science.education.nih.gov/home2.nsf/feature/index.htm>

The National Science Teachers Association (NSTA)

<http://www.nsta.org/>

NASA Science: Education and Public Outreach

<http://science.nasa.gov/researchers/education-publicoutreach/>

European Southern Observatory Science Outreach Network

<http://www.eso.org/public/outreach/eson/>

AAAS Public Outreach Overview

<http://communicatingscience.aaas.org/PublicOutreach/Pages/default.aspx>

Science Careers article: "Teaching Postdocs: An Alternative Approach to An Academic Career" by Paula Lemons

http://sciencecareers.sciencemag.org/career_magazine/previous_issues/articles/2001_10_05/noDOI.15973244409339441580

Science Careers article: "Scientists in Educational Outreach" by Charles Boulakia

http://sciencecareers.sciencemag.org/career_magazine/previous_issues/articles/2000_04_07/noDOI.11637012915855679387

Nature Jobs article: "A Career at the Museum" by Ricki Lewis

<http://www.nature.com/naturejobs/2008/080110/full/nj7175-218a.html>

Great Teacher: Resources and Information for the Education Field

<http://www.greatteacher.net/>

NIH Office of Science Education

<http://science.education.nih.gov/home2.nsf/feature/index.html>

National Education Association (NEA)

<http://www.nea.org/>

CAREERS IN POLICY

Tomorrow's Professor: Preparing for Careers in Science and Engineering by Rick Reis

Beyond Sputnik: U.S. Science Policy in the Twenty-First Century by Homer A. Neal, Tobin L. Smith, and Jennifer B. McCormick
Resource for the Beyond Sputnik Book

<http://www.science-policy.net/>

Issues in Science and Technology Newsletter

<http://www.issues.org/>

Science Careers: Science Policy Career Resources

http://sciencecareers.sciencemag.org/career_development/previous_issues/articles/2170/science_policy_career_resources

U.S. Office of Science and Technology Policy

<http://www.ostp.gov/>

US House of Representatives Committee on Science and Technology

<http://science.house.gov/>

Science and Development Network

<http://www.scidev.net/en/>

Research!America

<http://www.researchamerica.org/>

Institute on Science for Global Policy

www.scienceforglobalpolicy.org

AAAS Federal R&D Budget: Science and Policy Programs

<http://www.aaas.org/spp/rd/>

AAAS Science and Policy Blog Alerts (requires AAAS membership)

<http://blogs.aaas.org/blogs/spppolicyalert/>

AAAS ScienceInsider: Breaking News and Analysis from the World of Science Policy

<http://news.sciencemag.org/scienceinsider>

Scientists and Engineers for America: Science Policy News Alerts

<http://sharp.sefora.org/join/>

FASEB Science Policy Resources and Links

<http://www.faseb.org/Policy-and-Government-Affairs/Advocacy-on-Capitol-Hill/Explore-Resources/Science-Policy-Resources-and-Links.aspx>

FASEB Online Career Center
http://careers.faseb.org/home/index.cfm?site_id=521

INDUSTRY – GENERAL

Biotechnology Industry Organization
www.bio.org

Fierce Biotech
<http://www.fiercebiotech.com/>

Signals
<http://www.signalsmag.com>

INDUSTRY CAREERS AT THE BENCH

Xconomy article: "Tips on How Academic Scientists Can Make the Career Switch to Industry" by Don Rule
http://www.xconomy.com/seattle/2010/02/25/tips-on-how-academic-scientists-can-make-the-career-switch-to-industry/?single_page=true

Nature Jobs article: "Tricky Terrains" by Karen Kaplan
<http://www.nature.com/naturejobs/2010/100121/full/nj7279-388a.html>

The ABC's of industry: a postdoc program provides a sneak peak into industry careers by Adnan O Abu-Yousif, Erik C Hett, Ann M Skoczenski, Tayyaba Hasan
<http://www.nature.com/nbt/journal/v28/n6/full/nbt0610-625.html>

Consider post-doctoral training in industry by Grace Wong
<http://www.nature.com/nbt/journal/v23/n1/full/nbt0105-151.html>

Mythbusting for Academics: Considering a Job in Biotech/Pharma by Emma Hitt
http://sciencecareers.sciencemag.org/career_magazine/previous_issues/articles/2010_04_23/science.opms.r1000088

Biospace: Biotech and Pharmaceutical News and Jobs
<http://www.biospace.com/jobs/search/?type=jobsearchbanner&source=homepage>

Science Careers article: "Academia or Industry: Finding the Right Fit" by Elisabeth Pain
http://sciencecareers.sciencemag.org/career_magazine/previous_issues/articles/2009_05_22/caredit.a0900066

Science Careers article: "Tooling Up: Myths about Industry" by David G. Jensen
http://sciencecareers.sciencemag.org/career_magazine/previous_issues/articles/2009_08_21/caredit.a0900102

BioSpace article: "What to Expect During a Structured Interview for a Research Scientist Position"
http://www.biospace.com/news_story.aspx?NewsEntityId=152376

BioCareers.com article: "Getting Started with Biopharma Research" by Christine Traxler
<http://biocareers.com/resource/getting-started-biopharma-research>

BioCareers BioPharma Research
<http://biocareers.com/articles/biopharma-research>

CAREERS AWAY FROM THE BENCH

Careers Away from the Bench
http://images.sciencecareers.org/pdf/tools_tips/outreach/careers-away-from-the-bench.pdf

Science Careers article: "Tooling Up: The Applications Scientist Career Track" by David G. Jensen
http://sciencecareers.sciencemag.org/career_magazine/previous_issues/articles/2010_02_19/caredit.a1000018

The Scientist article: "MBA Programs Expand Career Prospects for Cross-Trained Scientists" by Robert Finn
<https://ccrma.stanford.edu/~unjung/guide/mba.html>

PhDs.org: Business Schools for Scientists
<http://www.phds.org/jobs/nonacademic-careers/business-school-for-scientists/>

MEDICAL DEVICE SALES

Medical Device Sales Recruiter: Tips and Quips
<http://www.phcconsulting.com/WordPress/>

All Health Care article: "Pharma, Biotech, Medical-Device Sales: Which is for You?" by Megan Malugani
<http://allhealthcare.monster.com/training/articles/2975-pharma-biotech-medical-device-sales-which-is-for-you>

Medical Devices Business Review: News, Comment, and Industry Information
<http://www.medicaldevices-business-review.com/>

MARKET RESEARCH

QuickMBA: Marketing Research Information
<http://www.quickmba.com/marketing/research/>

All About Market Research: Resources and Information about Pharmaceutical Market Research
<http://www.allaboutmarketresearch.com/pharma.htm>

PROGRAM MANAGEMENT

Science Careers article: "Program Management for Scientists, Part I: An Overview" by Meenakshi Kashya
http://sciencecareers.sciencemag.org/career_magazine/previous_issues/articles/2002_05_31/noDOI.7969639087689908393

Science Careers article: "Program Management for Scientists, Part II: Getting Experience" by Meenakshi Kashyap
http://sciencecareers.sciencemag.org/career_magazine/previous_issues/articles/2002_06_14/noDOI.14574432916945155484

Science Careers: Index of Articles on Research Program Management
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<http://www.contractpharma.com/>

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<http://www.criver.com/en-US/Pages/home.aspx>

Covance (CRO)
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<http://www.westat.com/>

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Nature Jobs article: "From Bench to Briefs" by Monya Baker
<http://www.nature.com/nbt/journal/v24/n11/full/nbt1106-1449.html>

NIH Office of Technology Transfer Resources
<http://ott.od.nih.gov/training/training.aspx>

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<http://www.benchfly.com/blog/technology-transfer-applying-the-phd-away-from-the-bench/>

Knowledge Management Professional Society (KmPro)
<http://www.kmpro.org/>

NCI Technology Transfer Center Employment Opportunities
<http://ttc.nci.nih.gov/employment/>

Association of University Technology Managers
<http://www.autm.net/Home.htm>

Emory Office of Technology Transfer
<http://www.ott.emory.edu/>

National Tech Transfer Center
<http://www.nttc.edu/>

Licensing Executives Society
<http://www.lesusacanada.org/>

US Public Health Service Scientist Professional Advisory Committee
<http://uspshs-scientist.org/>

CONSULTING, VENTURE CAPITAL AND ENTREPRENEURSHIP

Case in Point: Complete Case Interview Preparation
by Marc P. Cosantino

Nature Medicine: New York Academy of Sciences Launches Angel Investment Network by Cassandra Willyard
<http://www.nature.com/nm/journal/v17/n1/full/nm0111-4b.html>

Booz Allen Hamilton: A Strategy and Technology Consulting Firm
<http://www.boozallen.com>

Accenture
<http://www.accenture.com>

McKinsey and Company
<http://www.apd.mckinsey.com>

The Boston Consulting Group
<http://www.bcg.com/>

Sg2 Healthcare Solutions
<http://www.sg2.com>

Capgemini
<http://www.capgemini.com>

University of Maryland Technology Start-Up Boot Camp
<http://www.bootcamp.umd.edu/>

The 411 on Startups
<http://www.thestartup411.com/AngelFinancing/category/Finding-Angels>

My Corporation.com
<http://www.mycorporation.com/>

Intuit Community Service
<http://community.intuit.com/>

The Angel Capital Education Foundation (ACEF)
<http://www.angelcapitaleducation.org/about-acef/>

Harvard Business School Entrepreneurship website
<http://www.hbs.edu/entrepreneurship/>

Free management library
<http://www.managementhelp.org/>

Businessplans.com
<http://www.bplans.com/>

The U.S. Small Business Administration (SBA) Office of Technology: Small Business Innovation Research (SBIR) Program and the Small Business Technology Transfer (STTR) Program.
<http://www.sbir.gov/about/index.htm>

REGULATORY AFFAIRS

Regulatory Affairs Professionals Society (RAPS) Web Site: Links to Career Development Information
<http://www.raps.org/personifyebusiness/>

CLINICAL FELLOWS CORNER

<http://www.cc.nih.gov/clinicalfellows/training.html>

INTERNATIONAL CORNER

Career.edu: Job Board for the International Academic and Research Community
<http://www.career.edu/>

MyScience: The Portal for Research and Innovation
http://www.myscience.cc/jobs_and_careers

Naturejobs: International Opportunities: The Science of Diplomacy by Karen Kaplan
<http://www.nature.com/naturejobs/2011/110217/full/nj7334-425a.html>

Nature Jobs (Nature Publishing Group)
<http://www.nature.com/naturejobs/science/welcome>

Science Career (Science magazine)
<http://sciencecareers.sciencemag.org/>

EMBO jobs (European Molecular Biology Organization)
http://mobility.embo.org/index.php?option=com_jobline&Itemid=986

NIH Visiting Fellows Committee
<http://felcom.od.nih.gov/subCommittee/vfc/index.aspx>

AUSTRALIA

Seek: Find Science and Technology Jobs in Australia
<http://www.seek.com.au/science-technology-jobs/>

Science Alert: Research Jobs & Careers in Australia & New Zealand
<http://www.sciencealert.com.au/jobs>

Jobs, Employment & Careers at MyCareer
<http://mycareer.com.au/>

CareerOne
<http://www.careerone.com.au/>

CANADA

Science and Technology for Canadians
http://www.science.gc.ca/Home/Careers-WSEA08BCAA-1_En.htm

Wow Jobs
<http://www.wowjobs.ca/BrowseResults.aspx?q=Scientist&s=r&l=>

Simply Hired Canada
<http://www.simplyhired.ca/a/jobs/list/q-science>

My Canada Jobs
http://www.mycanadajobs.com/all_science_jobs_in_canada_121.html

Workopolis
<http://www.workopolis.com/EN/Common/Browse-Jobs.aspx?Category=SCIENCE>

CHINA

51Job.com
<http://www.51job.com/default-e.php>

EUROPE

European Science Jobs
<http://www.eurosciencejobs.com/>

EURAXESS-European Commission Jobs
<http://ec.europa.eu/euraxess/index.cfm/jobs/index>

Prospects: the UK's Official Graduate Careers Website
http://www.prospects.ac.uk/international_graduate_jobs.htm

Science Jobs from New Scientist
<http://www.newscientistjobs.com/jobs/default.aspx>

Austria

Life-Science
<http://www.life-science.at/career2/index.php>

Belgium

Doctorat.be
<http://www.doctorat.be/>

Denmark

Work In Denmark: Connection International Jobseekers and Danish Companies
<https://www.workindenmark.dk>

University of Copenhagen Job Portal
<http://employment.ku.dk/>

Finland

Finbionet
<http://www.finbionet.fi/positions.html>

Finnish Bioindustries
<http://www.finbio.net/fi/>

France

ABG L'intelli'agence
<http://www.intelliagence.fr/>

Germany

Job Vector: The Science Career Center
<http://www.jobvector.com/>

Greece

Prospects: Greece Job Market
http://www.prospects.ac.uk/greece_job_market.htm

Ireland

Life Science Recruitment
<http://lifescience.ie/about-us>

Italy

Nature Jobs: Spotlight on Italy
<http://www.nature.com/naturejobs/2005/051103/full/nj0095.html>

Spain

Universia: Espana
<http://www.universia.es/index.htm>

Netherlands

BCFjobs.nl: The Career Site for Bio, Chemistry & Food
<http://www.bcfjobs.nl/>

Sweden

The Official Gateway to Sweden
<http://www.sweden.se/work>

Biotech Sweden
<http://biotech.idg.se/>

United Kingdom

Jobs.ac.uk
<http://www.jobs.ac.uk/>

Science Jobs, Pharmaceutical, Chemistry Jobs
<http://www.scienceprospects.com/>

INDIA

IndiaBioscience.org: Your Gateway to Indian Biology
<http://www.indiabioscience.org/>

Ministry of Science and Technology: Department of Biotechnology
<http://dbtindia.nic.in/index.asp>

Council of Scientific and Industrial Research
<http://www.csir.res.in/home.asp>

Naukri.com: Pharma/Biotech Jobs
<http://corp.naukri.com/pharma-biotech-jobs/>

Monster.com: India
<http://jobsearch.monsterindia.com/category/categories.html?id=16>

Bio Jobs: Science Jobs India
<http://www.sciencejobs.co.in/bio-jobs>

ISRAEL

Israeli Scientist Abroad
<http://www.bioabroad.org.il/>

Israel Science and Technology
<http://www.science.co.il/>

Biotech jobs in Israel
<http://www.biotechjobs.co.il/>

JAPAN

Japan Research Career Information Network
<http://jrecin.jst.go.jp/seek/SeekTop?ln=1>

KOREA

Korean-American Scientists and Engineers Association
<http://www.ksea.org/>

Biology Research Information Center (Korean)
<http://bric.postech.ac.kr/>

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