

nih career symposium 2010

May 18, 2010

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welcome

Dear NIH Trainee,

Welcome to the Third NIH Career Symposium for Graduate Students and Postdocs! We hope you will use this event to sample the diversity of careers available to you as a member of the scientific community.

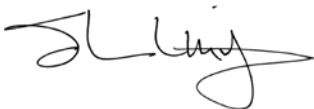
Throughout the day you will have the opportunity to meet with people successfully pursuing many different careers, enhance your professional skills through workshops, and network with scientists from across the country. We have worked hard to ensure that a wide variety of fields and educational backgrounds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

Helping you prepare for a satisfying career is a fundamental part of our job in the Office of Intramural Training & Education (OITE). We invite you to take advantage of the wealth of information available to you at this event and to remember the OITE as a resource for you throughout your training here at NIH. OITE staff members and career counselors are more than happy to discuss career choices and to assist you with finding the best place to use your doctoral degree.

As we approach the third anniversary of the "new" OITE, I wanted to highlight a few new things that you will be seeing from the office. First, our new website is ready to roll (www.training.nih.gov). This new site allows us to better integrate our services, one of the biggest highlights is our new calendar and event registration tool. Also, keep following our blog! (<http://oitecareersblog.wordpress.com/>). The blog is a fantastic way for us to be able to answer those quick questions and topics that are on everyone's mind. Additionally, the NIH Intramural LinkedIn group is blossoming, and in fact this is where we are posting all jobs that come through the OITE staff (an average of 10 new jobs are posted per week) (http://www.linkedin.com/groups?home=&gid=1404617&trk=anet_ug_hm). Finally, I have been promising an alumni database, we are almost there, and will be asking you to help populate the database as you move on to your next career endeavors.

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, Ph.D.
Director, Office of Intramural Training & Education
Senior Investigator, National Heart Lung and Blood Institute
Adjunct Investigator, National Human Genome Research Institute

detailed agenda

7:30 am

Registration

8:30 am

Plenary and Welcome

Kathie L. Olsen, Ph.D.

Vice President, International Programs,
Association of Public and Land-grant Universities (APLU)

10:00 am

Session One

Research Careers in Industry, MAIN AUDITORIUM

Michele Gunsior, Ph.D.

Principal Investigator, Immunochemistry Services, Covance
Laboratories, Inc.

Brandon Jeffy, Ph.D.

Principal Scientist, Molecular Toxicology, Safety Assessment US,
AstraZeneca Pharmaceuticals, LP

Hosein Kouros-Mehr, M.D., Ph.D. Associate Scientist, Genentech/Roche

Evguenia Svarovskaia, Ph.D.

Research Scientist II, Clinical Virology, Gilead Sciences, Inc.

Careers Options for Clinicians, BALCONY A

Vecihi Batuman, M.D., FACP,
FASN

Chief, Medicine Service, VA Medical Center, New Orleans and
Professor of Medicine, Tulane University Medical School

Susan McCune, M.D., M.A.Ed.

Deputy Director, Office of Translational Sciences, Center for Drug
Evaluation and Research, U.S. Food and Drug Administration

Steven Ryder, M.D., FACP

President, Astellas Pharma Global Development

William Savage, M.D.

Assistant Professor of Pathology and Pediatrics,
The Johns Hopkins University School of Medicine

Clifford R. Weiss, M.D.

Assistant Professor of Radiology and Surgery,
The Johns Hopkins University School of Medicine

Science Policy Overview, BALCONY C

Tobin L. Smith

Vice President for Policy, Association of American Universities

Careers in Nonprofit Organizations: Public Education and Outreach, Grants Management or Administration, CONFERENCE ROOM E1/E2

Sonal S. Das, Ph.D.

Associate Director, Research Programs,
The Michael J. Fox Foundation for Parkinson's Research

Maryrose Franko, Ph.D.

Senior Program Officer, Graduate Science Education, Office of
Grants & Special Programs, Howard Hughes Medical Institute

India Hook-Barnard, Ph.D.

Program Officer, Board on Life Sciences,
National Research Council, National Academy of Science

Catherine Oliveros, Dr.PH.

Manager, Community Health, Susan G. Komen for the Cure®

Sean Sanders, Ph.D.

Worldwide Commercial Editor, Program Director, Outreach,
Science/AAAS

Life In Academics, LISTER HILL

Christopher Jaronec, Ph.D.

Assistant Professor of Chemistry, The Ohio State University

Jon Lorsch, Ph.D.

Professor, Department of Biophysics and Biophysical Chemistry,
The Johns Hopkins University School of Medicine

Michelle Dykstra Snyder, Ph.D.

Assistant Professor, Biological Sciences, Towson University

Amy Cheng Vollmer, Ph.D.

Professor of Biology, Swarthmore College

11:15 am

Break

detailed agenda

11:30 am

Session Two

Science in Industry: Non-Bench Scientific Careers, MAIN AUDITORIUM

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|--------------------------------|---|
| Nick Kaludov, Ph.D. | Vice President Scientific Operations, Gradient Biomodeling, LLC |
| Matthew B. Kiser, M.S., M.B.A. | Executive Director, Pharmaceutical Business Development, Martek Biosciences Corporation |
| Dzung H. Nguyen, Ph.D. | Associate Director, Global Sales and Marketing, BioLegend |
| Jenelle M. Timmins, Ph.D. | Associate Program Manager, Research, Regeneron Pharmaceuticals, Inc. |

Non-tenure Track Careers at the Bench: Government and Academia, BALCONY A

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|------------------------------|--|
| Christopher Colangelo, Ph.D. | Director of Protein Profiling, Keck Biotechnology Resource Facility, Yale University |
| Tim Hunter | Manager, VT Genetics Network Microarray Facility; Manager, VT Cancer Center DNS Analysis Facility; and Assistant Director, Translational Technologies Unit, Center for Clinical and Translational Science, University of Vermont |
| Paul T. Morrison | Director, Molecular Biology Core Facilities, Dana-Farber Cancer Institute |
| Jack Simpson, Ph.D. | Senior Scientist, SAIC-Frederick |
| Meredith Yeager, Ph.D. | Senior Principal Scientist and Scientific Director, SAIC-Frederick, CGF/DCEG/NCI, Advanced Technology Center |

Careers Guiding the Direction of Scientific Research, BALCONY C

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|--------------------------|--|
| Bobbie Ann Austin, Ph.D. | Assistant Director, Science Policy & Programs, Association for Research in Vision & Ophthalmology |
| Della M. Hann, Ph.D. | Acting Deputy Director, Office of Extramural Research, Office of the Director, NIH |
| Rasika Kalamegham, Ph.D. | Science Policy Analyst, Friends of Cancer Research |
| Michael Stebbins, Ph.D. | Assistant Director for Biotechnology, White House Office of Science and Technology Policy, Executive Office of the President |

Communicating Science: Careers in Public Relations, Communications, Writing and Editing, CONFERENCE ROOM E1/E2

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|--------------------------------|--|
| Lucilia Pereira Mouriès, Ph.D. | Biomedical Communications Specialist, Consultant for the Orthopedic Medical Devices Industry |
| Brian T. Pittner, Ph.D. | Medical Science Liaison, Spectrum Pharmaceuticals |
| Brian Plosky, Ph.D. | Associate Editor, <i>Molecular Cell</i> , Cell Press |
| Abby Vogel, Ph.D. | Communications Officer, Georgia Institute of Technology |

Navigating the Academic Search Process, LISTER HILL

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|------------------------------|--|
| Ibrahim Z. Ades, Ph.D. | Associate Professor, Department of Biology, University of Maryland, College Park |
| Richard D. Foust, Jr., Ph.D. | Professor and Head, Department of Chemistry and Biochemistry, James Madison University |
| Terri Goss Kinzy, Ph.D. | Professor and Senior Associate Dean, University of Medicine and Dentistry of New Jersey - Robert Wood Johnson Medical School |
| Amy Cheng Vollmer, Ph.D. | Professor of Biology, Swarthmore College |

12:45 pm

Lunch on your own

1:45 pm

Session Three

Science at the Federal Government: Careers Away from the Bench, MAIN AUDITORIUM

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|------------------------|--|
| Lisa Dunbar, Ph.D. | Scientific Review Officer, National Institute of General Medical Sciences, NIH |
| Joshua D. Levin, Ph.D. | Regulatory Scientist, Center for Devices and Radiological Health, U.S. Food and Drug Administration |
| Wolf Lindwasser, Ph.D. | Health Science Grants Manager, Congressionally Directed Medical Research Programs |
| Sue Liu, Ph.D. | Primary Examiner, U.S. Patent and Trademark Office |
| Rob Lyerla, Ph.D. | Acting Director, Division of International Relations, Fogarty International Center, NIH |

Science in Business: Careers in Scientific Consulting and Intellectual Property, BALCONY A

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|--|---|
| Lawrence J. (Butch) Carroll, Ph.D., J.D. | Patent Attorney, Womble Carlyle Sandridge & Rice, PLLC |
| Katie Darius, Ph.D. | Associate, The Frankel Group |
| John G. Julias, Ph.D. | Associate, Booz Allen Hamilton |
| Clifford Michaels, Ph.D. | Intellectual Property Associate, Office of Technology Transfer, Emory University |

Careers in Public Policy Making, BALCONY C

| | |
|-------------------------|--|
| Kavita M. Berger, Ph.D. | Associate Program Director, AAAS Center for Science, Technology, and Security Policy |
| Ticora V. Jones, Ph.D. | AAAS Science & Technology Policy Fellow, U.S. Agency for International Development |
| Kevin Whittlesey, Ph.D. | FDA Commissioner's Fellow, Office of the Commissioner, U.S. Food and Drug Administration |
| Shimere Williams, Ph.D. | Professional Staff Member, U.S. House of Representatives, Committee on Science and Technology |

Scientists Teaching Science: Building the Next Generation, CONFERENCE ROOM E1/E2

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|----------------------------|--|
| Patrick Brandt, Ph.D. | Associate Director of Biomedical Graduate Training, University of North Carolina |
| Jayatri Das, Ph.D. | Senior Exhibit and Program Developer, The Franklin Institute |
| Michael T. Kim, Ph.D. | High School Teacher, Thomas Wootton High School, Montgomery County Public Schools |
| Latarchal D. Morton, Ph.D. | Director of Learning Programs, Claremont Campus, Emory University |
| Kathleen A. Travers, Ph.D. | Senior Lecturer, University of Maryland, College Park |

Getting Academic Tenure, LISTER HILL

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|--------------------------------|---|
| Matthew M. Ames, Ph.D. | Professor and Chair, Department of Molecular Pharmacology and Experimental Therapeutics, College of Medicine, Mayo Clinic Comprehensive Cancer Center |
| Joana Carneiro da Silva, Ph.D. | Assistant Professor, Institute for Genome Sciences & Department of Microbiology and Immunology, University of Maryland School of Medicine, Baltimore |
| Julio C. de Paula, Ph.D. | Dean of the College of Arts & Sciences and Professor of Chemistry, Lewis & Clark College |
| Susan Parrish, Ph.D. | Assistant Professor, Department of Biology, McDaniel College |
| Clifford R. Weiss, M.D. | Assistant Professor of Radiology and Surgery, The Johns Hopkins University School of Medicine |

3:00 pm

Break

detailed agenda

Session Four: Skills Blitz

3:15–3:35 pm

American Culture for Job Seekers, MAIN AUDITORIUM

Interviewing, BALCONY A

CV/Resumes, BALCONY C

Networking and Informational Interviews, CONFERENCE ROOM E1/E2

3:40–4:00 pm

Job Search Strategies, MAIN AUDITORIUM

Interviewing, BALCONY A

Find Your Career, BALCONY C

Elevator Speech, CONFERENCE ROOM E1/E2

4:05–4:25 pm

CV/Resumes, MAIN AUDITORIUM

Cover Letters, BALCONY A

Leadership Opportunities at NIH, BALCONY C

Job Search Strategies, CONFERENCE ROOM E1/E2

5:00 pm

Networking Event

panel descriptions

Careers Guiding the Direction of Scientific Research

Are you interested in being involved in making decisions that shape the large-scale direction of scientific research? Panelists in this session work in various public and private sectors to establish guidelines and set priorities for federally and privately funded research. As a group, they focus on the revitalization of our competitive edge in the global community, national biosecurity, public health, preservation of the environment, and improvement of public science education. The panelists will describe how they became interested in the issues they work on, their career paths, and their current work.

Careers in Nonprofit Organizations: Public Education and Outreach, Grants Management or Administration

Are you considering a career move away from the bench? Are you passionate about making a difference in the world? Then consider the many career options within science and health-focused nonprofit organizations. Nonprofit organizations engage in public education and outreach by organizing and carrying out activities aimed at promoting a broad understanding of science and health. An important aspect of many nonprofits is the funding of health-based research grants which creates a need for trained scientists to participate in the management of these grants. Managing multiple agendas within a given nonprofit organization often requires administrators who can direct outreach and grants programs. The panelists will describe their experiences at nonprofits and discuss how to pursue a career in public outreach, grants management or administration within these organizations.

Careers in Public Policy Making

The government relies on scientists to help shape effective and accurate public policy on health and research-related issues. Career opportunities exist for scientists in policy making at federal agencies and non-profits. This intensive question and answer session will feature panelists who apply their scientific backgrounds to help develop public policy, and answer a wide array of questions ranging from how health screening guidelines are set, to how outbreaks of infectious diseases should be managed. The panelists will describe how they became interested in science policy, how the skills they obtained in the lab helped them along their career paths, and the day-to-day responsibilities of their current positions.

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.

Communicating Science: Careers in Public Relations, Communications, Writing and Editing

While strong communication skills are a valuable strength for all scientists, those that have exceptional writing skills may be up to the challenge of communicating complex scientific ideology to targeted audiences that may include non-scientists. Policy makers, research institutions, practitioners and scholars, all rely on science writers to communicate complex ideas and as such, these scientists are often regarded as advocates. Science communicators play an important role in influencing public perception of new technologies, which aids hugely in creating health and science policy. While most scientists are likely familiar with the work of journal editors, the medium for science communication takes many different forms; including media relations, public relations, and medical and scientific liaison positions. Panelists will discuss the diverse opportunities within this field, and address the varying entry requirements for the available careers.

Getting Academic Tenure

The years spent working towards tenure are often considered the most stressful in academia. Understanding the tenure process will reduce the stress and prepare you for tenure review. This panel will address how tenure requirements vary amongst institutions and how to navigate the tenure process successfully. The panelists will also cover what resources are available to an assistant professor, common reasons people do not get tenure and what to do if you think you will not be given tenure. Panelists have been selected from a variety of schools and career stages, providing a range of expertise on the tenure process.

panel descriptions

Life in Academics

Are you interested in a career in higher education, but are unsure of how to choose a position to pursue? Have you considered seeking a professorship, but are unsure of how responsibilities differ at large compared to small institutions? During this session, the panelists will present an overview of life as a professor in a wide range of higher education settings. They will describe the differences between working at a large state school, a medical school, a liberal arts college, and a masters/comprehensive university. The panelists will share the challenges and rewards of working in an academic setting, and by the end of the session you will be better equipped to decide whether a career in higher education is right for you and what type of institution or position you might pursue.

Navigating the Academic Search Process

The priorities, needs and requirements of academic search committees are often difficult to discern. Subtle nuances in their candidate choices vary widely across academia and can lead to frustration for job candidates in their academic job search. This session will allow you to find out what it takes to get hired at different types of institutions, common reasons why people are not offered a position, and what you should be doing now to prepare yourself. Panelists will also cover common first-time applicant mistakes, hiring packages, salary ranges, and will offer insight into the priorities of search committees. Finally, panelists will discuss the current hiring trends at their institutions.

Non-tenure Track Careers at the Bench: Government and Academia

Are you interested in careers at the bench that do not involve seeking tenure? Panelists in these sessions are staff scientists, associate research professors, and lab managers. They all perform critical services at the bench, or are involved in the operation or management of core facilities in academic institutions or government laboratories, but do not have the added pressure that comes with being a tenure-track investigator. They will discuss both the advantages and disadvantages of this career path, how they reached their current positions, and the required skills to obtain these types of jobs.

Research Careers in Industry

For scientists who remain passionate about bench research, many career opportunities exist in a wide range of pharmaceutical and biotechnology companies. This panel will address the roles of research scientists in different industry settings, such as large or small biotechnology or pharmaceutical companies. The panelists will discuss how an industrial research environment differs from an academic one, the steps in their training that were important in making the transition to industry, and the skills required for obtaining a research position in an industry setting.

Science at the Federal Government: Careers Away from the Bench

With two million employees, the federal government is the largest employer in the country and federal positions for trained scientists extend beyond basic research. Federal scientists work in a variety of positions where they may be responsible for tracking changes in legislation, registering new chemicals, communicating legal and scientific restraints to their colleagues, negotiating with regulatory authorities, reviewing patent applications, administering grants or promoting health education and policy. Panelists will provide insight into a wide range of federal positions for scientists including regulatory affairs, patent examination, grants administration and the US Public Health Service.

Science in Business: Careers in Scientific Consulting and Intellectual Property

Are you interested in a career that combines science and business? This panel provides an opportunity to explore opportunities for scientists in consulting and business careers. This panel will give you an understanding of how your training and skills as an MD and/or Ph.D. would be well suited to a position in business, scientific consulting, intellectual property and entrepreneurship. In addition, this panel is designed to give you an idea of what skills you may need for a career in these fields and how to acquire them. The panelists will discuss in depth how they were able to transfer their medical and scientific backgrounds to these different fields. They will also discuss their daily duties, work environment, and opportunities for further career development.

Science in Industry: Non-Bench Scientific Careers

There are many opportunities in the private sector for scientists to leverage their skills and knowledge from bench research into positions such as sales, business development, or project management. In fact, many industry positions seek scientists with management and regulatory acumen. This panel provides information about the role of scientists in business-focused careers, and how scientists promote innovation through leadership and executive roles. Our panelists will highlight the options available to scientists and will share the steps and skill sets that are required to pursue these careers.

Science Policy Overview

How are federal agency budgets determined? Who participates in developing national policy positions on health and science issues such as H1N1 preparedness and climate change? How do our nations health initiatives dovetail with international diplomacy efforts and biosecurity concerns? Scientists are heavily involved in these types of policy decisions at the federal level. This session will provide a general overview of how public policy directs scientific research and how science influences public policy.

Scientists Teaching Science: Building the Next Generation

As schools prepare today's students to live in the highly globalized and competitive 21st century, the need for every student to receive a good science education has never been more imperative. All students, not just those destined for a scientific, technical, or health-related career, can benefit from the skills that science education provides; such as critical thinking, data analysis, working in teams, and oral and written communication. Scientists can share their unique skills and training by choosing careers in education to shape the path for future scientists at a young age. This panel will address different types of educational careers available to scientists that include K-12, post-secondary and public outreach programs. Management of educational programming will also be discussed.

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:

American Culture for Job Seekers

- » Specifically designed for foreign fellows entering the US job market. This session seeks to give you culture tips to navigate the job process.

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.

Elevator speech

- » Can you explain who you are quickly and succinctly (about the time it takes the elevator to go up a few floors)? Gather tips on how to make a first impression.

Find Your Career

- » 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 Strategies

- » 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.

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.

Michael Abram, NCI
Maria Dolores Arjona Mayor, NCI
Caren Petrie Aronin, NIAID
Zain Bengali, NIAID
Matthew Berberich, NIMH
Sonia Bhangoo, NIDCR
Arianna Biesso, NHLBI
Hyrum Carroll, NLM/NCBI
Angel Davey, NIAID
Monika Deshpande, NEI
Nicholas Fitzkee, NIDDK
Caryl Giuliano, FDA
Kristofor Langlais, NICHD
Andrea McCollum, NCI
Shamsideen Musa, OD
Thabisile Ndlebe, CC
Yvette Pittman, NICHD
Ranjini Prithviraj, NINDS
Kathrina Quinn, NIDCR
Sarah Rhodes, NIMH
Sarah Rothman, NIA
Sunita Shukla, NHGRI
Elizabeth Webber, NIDCD/NINDS
Yizhou Ye, NIMH

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



Kathie L. Olsen, Ph.D.

Vice President, International Programs,
Association of Public and Land-grant Universities (APLU)

Dr. Kathie L. Olsen is currently the Vice President, International Programs at the Association of Public and Land-grant Universities (APLU). She is responsible for a dynamic and extensive set of activities focused on strengthening and developing new international programs as an integral part of the modern university and a 21st century global education.

Prior to the APLU, Dr. Olsen had a prolific 24-year federal government science career included senior leadership positions at NSF, NASA and Office of Science and Technology Policy (OSTP) in the Executive Office of the President. As the Senior Advisor in the National Science Foundation (NSF) she advised the Chief Human Capital Officer as well as NSF senior management on opportunities for NSF-wide management improvement. She championed strengthening merit review and interdisciplinary research processes, workforce planning, Program Officer training and development, and succession planning.

Dr. Olsen was the Deputy Director and Chief Operating Officer of NSF in August 2005 until January 2009. As such, she was responsible for the day-to-day management and oversight of program creation and administration; national and international collaborations; merit review processes; strategic and long-term planning and performance; budget development, implementation and reporting; personnel; and operations.

Olsen joined NSF from the Office of Science and Technology Policy (OSTP) in the Executive Office of the President where, since 2002, she had been the Associate Director and Deputy Director for Science. Her responsibilities included overseeing national and international science and education policy development and federal agency program coordination for the physical sciences, life sciences, environmental science, behavioral and social sciences and education.

Prior to OSTP, Olsen served as Chief Scientist for the National Aeronautics and Space Administration (NASA) (May 1999-April 2002) and the Acting Associate Administrator for Biological and Physical Research (July 2000-March 2002). As Chief Scientist, she served as the Administrator's senior scientific advisor, principal advisor on budget content of the scientific programs and principal interface with the national and international scientific community. As Acting Associate Administrator during the formulation of the new Enterprise for Biological and Physical Research, she oversaw budget development and implementation, recruitment and development of professional and support staff and strategic planning.

Dr. Olsen was recruited to NASA from the NSF, where since 1997 she had been Senior Staff Associate for the Science and Technology Centers in the Office of Integrative Activities. From February 1996 until November 1997, she was a Legislative Fellow and detailee from NSF to the Office of Senator Conrad Burns of Montana. Between 1984 and 1996, she served NSF in a variety of administrative and scientific leadership positions. At various times in her early professional career, Dr. Olsen also served as a Research Scientist at the State University of New York – Stony Brook's Long Island Research Institute and Assistant Professor in the Department of Psychiatry and Behavioral Science at the Medical School, as well as Adjunct Associate Professor in the Department of Microbiology at the George Washington University.

speakers

Dr. Olsen received a B.S. in Biology and Psychology with honors from Chatham College and Ph.D. in Neuroscience from the University of California, Irvine. She was a Post-doctoral Fellow in the Department of Neuroscience at Children's Hospital of Harvard Medical School. Her research on neural and genetic mechanisms underlying development and expression of behavior was supported by the National Institutes of Health.

Olsen holds numerous awards from foreign entities, government agencies, institutions and scientific societies. These include the Norwegian Royal Order of Merit; NASA's Outstanding Leadership Medal; the NSF Director's Award of Excellence; awards for outstanding contributions from the International Behavioral Neuroscience Society and the Society for Behavioral Neuroendocrinology; the Barry M. Goldwater Educator Award from the American Institute of Aeronautics and Astronautics, National Capital Section; the University of California, Irvine Lauds and Laurels Distinguished Alumna Award; and the Barnard College Medal of Distinction. She is an elected Fellow of the American Association for the Advancement of Science and the Association for Women in Science, and an elected member of the Explorers Club. She has been awarded honorary doctoral degrees from Chatham College, Clarkson University, and University of South Carolina.

Ibrahim Z. Ades, Ph.D.

Associate Professor
Department of Biology
University of Maryland, College Park
301.405.7496
izades@umd.edu

Dr. Ades received his Ph.D. from the University of California, Los Angeles in 1976. His research activities have been in two areas of cell physiology. Most of the work by his laboratory focused on the regulation of production and maturation of mitochondrial proteins, particularly of enzymes involved in the synthesis of metalloporphyrins. More recently, his interests shifted to the biochemical mechanisms that regulate cell proliferation. Dr. Ades joined the University of Maryland in 1982, and his appointments have included service as Acting Chair of the Department of Microbiology (1992-95), and Director of the Molecular and Cell Biology Program (1993-2004).

Matthew M. Ames, Ph.D.

Sandra J. Schulze Professor and Chair
Department of Molecular Pharmacology and Experimental Therapeutics, College of Medicine, Mayo Clinic Comprehensive Cancer Center
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products associated with individual variation in response to anticancer agents. He has been continuously funded by the National Cancer Institute for more than 25 years. Relevant to the career discussion, Dr. Ames also served as the Director for Research at Mayo Foundation for seven years.

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Dr. Colangelo is the Director of Protein Profiling at the Yale Keck Biotechnology Resource Facility. Since joining Yale in 2003, he has worked with hundreds of investigators to educate, design, and analyze their protein profiling samples. In addition he has overseen the implementation of four new protein profiling technologies into the Keck Foundation Biotechnology Resource Laboratory, namely iTRAQ, ICAT, MudPIT, and Targeted Proteomics. In 2000, Dr. Colangelo was hired by 454 Corporation as their seventh employee and was one of the co-inventors of the high-throughput sequencing platform (U.S. WO/2002/077287). In late 2000, the 454 Corporation moved its headquarters to San Diego and Dr. Colangelo joined the parent company CuraGen Corporation where his work in the Advanced Engineering group enabled him to continue developing new technologies for both high throughput genomics and proteomic platforms. He is an author of two book chapters on proteomics, 16 peer-reviewed publications, and has been an invited speaker at 7 international meetings. Finally in 2008, Dr. Colangelo was selected to be the scientific advisor for the Yale's Digital Landscape Project, which selected YPED as the life science test system for implementing large scale data preservation and dissemination of electronic data throughout Yale University and beyond.

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Immunology, and her research focuses on population genetics, molecular evolution and comparative genomics of eukaryotic parasites. She came to UMB from the Institute for Genomic Research (TIGR), which she joined in 2002 as a Staff Scientist I. She was promoted to Staff Scientist II in 2005, and in 2006 she applied for, and got, the position of Assistant Investigator at TIGR. While at TIGR, she worked mostly on comparative genomics of unicellular eukaryotic parasites, with particular emphasis on *Plasmodium* and *Trichomonas*. From 2000 to 2002, Dr. Silva was a Fogarty postdoctoral fellow at the Computational Biology Branch of the National Center for Biotechnology Information, at the National Institutes of Health (NCBI, NIH), where she gained extensive experience in the field of comparative genomics. Dr. Silva earned her B.S. degree in Biology from the Universidade Clássica de Lisboa, in Lisbon, Portugal, and her Ph.D. in Genetics from the University of Arizona.

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ized to distinct regions within the same neuron. Dr. Das then continued her research as a postdoctoral fellow in Dr. Stanley Froehner's laboratory at the University of Washington, where she broadened her neuroscience background by investigating a protein integral to water flux at the blood-brain barrier and the means by which this protein was anchored to the cell surface of astrocytes both normally and during an in vitro model of stroke.

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Dr. Foust is the Head of the Department of Chemistry and Biochemistry at James Madison University in Harrisonburg, Virginia. JMU is a predominately undergraduate institution with an undergraduate student enrollment of 16,619 out of a total student population of 17,964. Before assuming his current position at James Madison, Dr. Foust was Professor of Chemistry and Environmental Sciences at Northern Arizona University in Flagstaff, Arizona where he served nine years as Director of NAU's Ralph M. Bilby Research Center. He was NAU's representative to the Historically Black Colleges and Universities/Minority Institutions Environmental Technology Consortium from 1991 through 2008. From 2004 through 2005, Dr. Foust served as a Program Officer in the Chemistry Division of the National Science Foundation where he directed the Research Experiences for Undergraduates and the Undergraduate Research Collaboratives Programs. Dr. Foust earned his bachelor's degree in chemistry from Pennsylvania State and his Ph.D. in chemistry from the University of California, Santa Barbara. He did postdoctoral research at the University of California, Irvine. His current research interests are in the biogeochemical transformations of environmental arsenic and atmospheric deposition of trace metals from coal-fired power plants.

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Dr. Gunsior is a Principal Investigator with Immunochemistry Services at Covance and has been with the company for more than two years. Her job responsibilities include managing the development and validation of immunoassays to quantitate drug and anti-drug-antibodies in various matrices, and overseeing analysis of clinical and nonclinical study samples using the validated methods. Prior to her position at Covance, she was a Research Fellow at the National Cancer Institute in the Antibody and Protein Purification Laboratory working under Dr. Paul Goldsmith. She began working with Dr. Goldsmith as a postdoctoral fellow in 2003, and her research primarily focused on the development of immunoassays as well as antibody design, purification and characterization. In addition, Dr. Gunsior served as an editor on the NIH Fellows Editorial Board. Dr. Gunsior received her B.S. degree in Chemistry from Bucknell University in Lewisburg, PA, and matriculated to The Johns Hopkins University in Baltimore where she received her M.A. and Ph.D. in Chemistry. Her thesis research encompassed sequencing the biosynthetic gene cluster of Nocardicin A antibiotic from *Nocardia*

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Prior to joining Friends she was a Burroughs-Wellcome Science Policy Fellow at Research!America. Dr. Kalamegham obtained her Ph.D. at The Pennsylvania State University and underwent postdoctoral training at the National Institutes of Health.

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Dr. Kaludov is an experienced biotech executive and entrepreneur with extensive R&D expertise and a successful industry track record. As an industry executive, Nick has transformed two biotechnology research platforms into product pipelines, taken a product through pre-clinical development and IND submission, founded one biotechnology company, and established several corporate alliances. Prior to his current position as a Vice President Scientific Operations at Gradient Biomodeling, Dr. Kaludov served as the Director of Cancer Research and Development for ImQuest BioSciences. Nick earned his Ph.D. from Florida State University in 1996 and completed his postdoctoral training at the NIH in 2001.

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Dr. Lindwasser joined the Congressionally Directed Medical Research Programs (CDMRP) in 2008 as part of the Prostate Cancer Research Program (PCRP) team. In addition to managing grants for the PCRP, he is a member of the Program Evaluation Steering Committee, Consumer Working Group, and is co-chair of the planning committee for the upcoming Innovative Minds in Prostate Cancer Today (IMPACT) conference. He will also be CDMRP's representative on the newly formed United States Army Medical Research and Materiel Command Systems Biology Integrating Integrated Product Team. From 2004–2008, Dr. Lindwasser was a postdoctoral fellow at the National Institute of Child Health and Human Development, National Institutes of Health. His research was focused on intracellular protein trafficking, viral modulation of immune cell receptors, and the cell biology of HIV-1. Dr. Lindwasser earned his B.A. in Biology from Hunter College and his Ph.D. in Cell Biology and Genetics from the Weill Cornell Graduate School of Medical Sciences, Cornell University.

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Dr. Liu is a primary patent examiner in Technology Center 1600 (Biotechnology and Organic Chemistry) and examines combinatorial chemistry related patent applications. From 2004 to 2005, she was a postdoctoral fellow at CBER, FDA, and worked on mycoplasma related projects. She obtained a Master of Science in Industrial Administration in 2003 at Purdue University. Dr. Liu studied transcriptional regulation in vaccinia virus for her Ph.D. thesis and graduated from Department of Biochemistry, Purdue University. She obtained her B.S. degrees in Chemistry (with emphasis in Biochemistry) and Psychology from Arizona State University.

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Jon Lorsch first became interested in understanding the molecular mechanics of biological processes in college when he worked with Judy Voet and Nancy Hamlett studying the enzyme mercuric reductase. He then went to Harvard for graduate school specifically to work with the enzymologist Jeremy Knowles. When Prof. Knowles was made Dean of the Faculty, he closed his lab and sent Jon to Jack Szostak's lab. After graduation, Jon went to work as a postdoctoral fellow with Dan Herschlag at Stanford where he studied the RNA-dependent ATPase (DEAD-box protein) eIF4A. After working on eIF4A for two years, Dr. Lorsch became fascinated by the broader questions of what all of the other 24 or more proteins involved in translation initiation in eukaryotes did and how they did it, and so he set out to use the tools of mechanistic enzymology and biophysical chemistry to dissect the process and probe its molecular mechanics. Dr. Lorsch's lab continues to work on these questions. In his current position Jon is Professor of Biophysics and Biophysical Chemistry, Johns Hopkins University School of Medicine. He received a B.A. in Chemistry from Swarthmore College (1990) and a Ph.D. in Biochemistry from Harvard University (1995) isolating RNAs with novel functions from large pools of random-sequence RNAs.

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Dr. Lyerla spent 8 years as an epidemiologist in the Division of Viral Hepatitis at the Centers for Disease Control and Prevention in Atlanta, GA. He came to CDC in 1995 as a member of the Epidemic Intelligence Service, a post graduate training program in Epidemiology, where he worked on the diphtheria epidemic in the former Soviet Union. While in the Division of Viral Hepatitis he worked with a number of at risk populations, including hemodialysis patients, injection drug users and prisoners, and Men who have Sex with Men, as well the risk of infection from procedures such as tattooing or body piercing. Dr Lyerla received the Outstanding Young Scientist Award from the US Public Health Service Commissioned Corps in 1998, and is a Captain in the PHS Commissioned Corps.

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Dr. Oliveros works in the Medical and Scientific Affairs branch at the global headquarters of Susan G. Komen for the Cure® and is currently responsible for the development and oversight of the Susan G. Komen for the Cure® community needs assessment process completed by 122 domestic and three international Affiliates. The community-based research completed by Komen Affiliates informs how 80 million dollars annually are spent at the local level. Before assuming her current position, she was the Deputy Director of Program Operations for the Area Agency on Aging in Fort Worth, Texas. She has over ten years experience working in social services, primarily with older adults and caregivers and has research experience evaluating government-subsidized programs and their impact on caregiver physical and mental well-being. In addition, she has extensive field experience in the area of chronic disease management and international health issues including travel to Kenya, Tanzania, India and China to study existing health and social infrastructures for its aging population. Dr. Oliveros earned her B.A. degree in Psychology from Pitzer College, her Masters in Global Health and her Doctorate in Preventive Care from Loma Linda University in Loma Linda, California.

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speakers

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Dr. Pittner is a scientific liaison within the Medical Affairs Department at Spectrum Pharmaceuticals. From 2001 to 2004, he was a postdoctoral fellow on faculty at the Mayo Clinic, Rochester, Minnesota where he studied the biology of chronic lymphocytic leukemia and other B cell malignancies. Before joining the Mayo Clinic, Dr. Pittner served as a microbiology officer in the United States Navy where he performed tours of duty at Portsmouth Naval Medical Center, Virginia and Naval Medical Research Unit #3 in Cairo, Egypt. During his naval career, he was also the director of the Navy Forward Deployable Laboratory serving in support of Operation Desert Watch over the Southern No-Fly Zone of Iraq in 1998. From 1991-1997, Dr. Pittner earned his doctorate studying normal B cell biology at the University of Kentucky. Dr. Pittner earned his B.S. degree in Zoology from the University of Iowa.

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Dr. Plosky is currently an Associate Editor for the journal Molecular Cell, www.molecule.org. Scientific editors at journals are distinct from the editors who handle the actual production of the journal (i.e., copy editors or managing editors). The job focuses on the scientific content of the journal and interactions with the scientists who read the journal and submit manuscripts to the journal. Dr. Plosky graduated from Colgate University in 1997 with a B.A. in Molecular Biology, then went on to the Ph.D. program in Biology at New York University where he studied the interplay between transcription and DNA repair. In 2001 he started as a postdoctoral fellow working with Dr. Roger Woodgate (Chief, Laboratory of Genomic Integrity) in

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Dr. Ryder is President of Astellas Pharma Global Development, which is the development organization of Astellas Pharma, Inc, a Japanese-based global mid-sized R&D-based pharmaceutical company. Current areas of development focus include transplantation, immunology, oncology, urology, and infectious disease. Prior to joining Astellas in 2008, Dr. Ryder worked for Pfizer R&D (1987-2008) and Ayerst Laboratories (1982-87) in various positions of increasing responsibility in pharmaceutical development. His experience covers a number of therapeutic areas, with special focus on endocrine/metabolic and cardiovascular therapeutics including both small molecule and biological new medicinal development. He holds leadership positions in both the BIO and PhRMA trade associations, is immediate past-President of the American Society of Clinical Pharmacology and Therapeutics, served as the Industry Representative on the FDA Endocrine and Metabolic Drugs Advisory Committee, and is an active member of the editorial boards for several journals. Prior to joining Astellas, he was a member and Chair (2005-8) of the Board of Directors of Gaylord Hospital (a specialty care hospital in Wallingford, CT). Dr. Ryder graduated from Mt. Sinai School of Medicine, completed training in Internal Medicine and Endocrinology/Metabolism at SUNY Stony Brook followed by a Research Associate position at the Berson Laboratory of the Bronx VAMC.

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Will Savage, M.D., grew up in Arizona, but has lived on the East Coast for over 20 years. He went to Columbia University for undergraduate school and Cornell University Medical College afterwards. He trained in the Harriet Lane pediatric residency program at Johns Hopkins. He subsequently completed the joint NIH/JHH pediatric hematology/oncology fellowship and then completed the transfusion medicine fellowship at Hopkins. His research focus is on discovery and validation of biomarkers that track organ damage in people with sickle cell disease, many of whom receive chronic red blood cell transfusions. In addition to his clinical interests in transfusion medicine and pediatric hematology, Dr. Savage has pursued specialized clinical research training, including a year at the NIH Clinical Research Training Program, and he is currently a Ph.D. candidate in Clinical Investigation at the Bloomberg School of Public Health at Johns Hopkins. This training is being applied to studies that will identify transfusion techniques that minimize morbidity of chronic red cell transfusion.

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Dr. Simpson is a Senior Scientist in the Protein Chemistry Laboratory, Advanced Technology Program at SAIC-Frederick, located at Ft. Detrick in Frederick, MD. He received a B.S. from LSU in 1982 and a M.S. in Organic Chemistry in 1989

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Tobin (Toby) Smith is Vice President for Policy at the Association of American Universities (AAU), an organization of 62 leading research universities devoted to maintaining a strong system of academic research and education. At AAU, he has broad responsibility for science policy and is directly responsible for overseeing policy matters relating to innovation and competitiveness, physical sciences and engineering, and energy. Prior to joining AAU in January 2003, Toby was the Director of Federal Relations for Research for the University of Michigan. From 1992-1999 he served as Federal Relations Representative and Assistant Director of the Massachusetts Institute of Technology (MIT) Washington D.C. Office. From 1988 to 1992, Toby served as a legislative assistant to Congressman Bob Traxler (D-Michigan). Toby has written and spoken widely on science policy and funding issues. He is the co-author of a recently released book on national science policy published by the University of Michigan Press titled, *Beyond Sputnik – U.S. Science Policy in the 21st Century*.

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Clifford R. Weiss, M.D. received a Bachelor of Arts in biology and genetics from Dartmouth College, where he graduated summa cum laude. Dr. Weiss received his M.D. degree from Johns Hopkins University School of Medicine. After Dr. Weiss matriculated from medical school, he remained at Johns Hopkins and completed his medicine internship and residency training in radiology. He then continued his training at Johns Hopkins as a vascular and interventional radiology fellow. Dr. Weiss is currently an Assistant Professor of Radiology and Surgery at Johns Hopkins University School of Medicine, Division of Vascular and Interventional Radiology. He is also a principal investigator of an active Career Development Award through the Society of Interventional Radiology that is designed to provide support to junior Interventional Radiology faculty members early in their academic careers to allow time for the conduct of research and to eventually obtain additional funding from other sources, e.g., National Institutes of Health (NIH). Dr. Weiss also recently served as a research delegate to Siemens' health-care, imaging and IT division, magnetic resonance, in Erlangen, Germany, and is associated with five patents that have been submitted in cooperation with Siemens. Before graduating from medical school, Dr. Weiss participated in the NIH Clinical Research Training Program (CRTP) from 1998-2000, under the mentorship of Drs. Robert Balaban and Andrew Arai. Over the course of the two years that he was at the NIH, he worked on several imaging related clinical research projects. He conducted research on simultaneous differentiation of stunned, infarcted, and normal myocardium using magnetization transfer contrast enhanced cine MRI; evidence of arterial wall inflammation in humans by MRI; and MRI detection of arterial wall injury after angioplasty. Dr. Weiss has over 20 peer-reviewed publications. He is currently a member of the Society of Interventional Radiology, Association of University Radiologists; American Roentgen Ray Society; International Society for Magnetic Resonance in Medicine; American College of Radiology; Society of Interventional Radiology; and the Radiology Society of North America.

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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:

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

CV/resume workshop

Career Exploration

- » Putting Your Ph.D. to Work - Peter Fiske
- » Exploring Careers
- » Career Satisfaction and Success
- » Networking
- » Non-Bench Careers for Scientists at NIH
- » Fellowship Opportunities
- » Successfully Publishing a Scientific Paper
- » Project Management
- » Getting a Job with the Federal Government
- » Careers in Science Policy
- » Careers in Patents and Tech Transfer

Academics

- » Academic Overview
- » Academic Job Interviews
- » Effective Job Talks
- » Evaluating Positions and Negotiating Academic Offers
- » Making the Move to Academia
- » K99/R00 Grants
- » e-submission of K-grants

Communications

- » Communicating Science: Tools for Scientists and Engineers
- » Giving a Great Science Talk
- » Scientific Writing from the Reader's Perspective

Industry

- » Industry Overview
- » Navigating the Application Process
- » Cover Letters for Industry
- » Interviewing for Industry
- » Business Etiquette
- » Job Talks for Industry

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.

Your professional society (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>

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?home=&gid=1404617&trk=anet_ug_hm

Books

(A selection of those available free 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

Book List

Career Development for Chemists
<http://www.balbes.com/Careers/books.html>

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>

Presidential Management Fellows Program
<https://www.pmf.opm.gov/>

US Patent and Trademark Office: Links to Jobs and Information on Patents, Trademarks and Intellectual Property
<http://www.uspto.gov/>

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

NIH jobs
<http://jobs.nih.gov>

USAJOBS: Listings for Federal Government Jobs and Information on How to Apply
<http://www.usajobs.gov>

Careers in Non-Profits

Science Careers article: "Mastering your Ph.D.: Exploring Nonprofit Organizations" by Patricia Gosling
http://sciencecareers.sciencemag.org/career_magazine/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=PublicEducationOutreach>

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/>

NASA Science: Education and Public Outreach
<http://science.nasa.gov/researchers/education-public-outreach/>

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>

resources

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

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

Grant Management Training for Nonprofit Applicants
and Recipients
<http://www.epa.gov/ogd/training/>

Grant Writing and Grants Management Training Work-
shops & Seminars
<http://grantwritingusa.com/>

Jobs in Non-profits
<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](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](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/naturejobs/2004/041118/full/
nj7015-418a.html](http://www.nature.com/naturejobs/2004/041118/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](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](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](http://healthcareers.about.com/od/healthcareerprofiles/p/MedSciLiaison.htm)

Journal of Commercial Biotechnology: "Biotechnology's
Special Forces: Field-Based Science Medical Science
Liaisons" by Jane Chin
[http://www.palgrave-journals.com/jcb/journal/v10/n4/
abs/3040088a.html](http://www.palgrave-journals.com/jcb/journal/v10/n4/abs/3040088a.html)

AAAS Public Outreach Overview
[http://communicatingscience.aaas.org/PublicOutreach/
Pages/default.aspx](http://communicatingscience.aaas.org/PublicOutreach/Pages/default.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>

AAAS Mass Media Science and Engineering Fellows
Program
<http://www.aaas.org/programs/education/MassMedia/>

Academic-General

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

HigherEdJobs: Listings for Faculty, Administrative and
Executive Jobs in Higher Education
<http://www.higheredjobs.com/>

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.academply.com/>

Tenure-Track Careers

HHMI Book: *Making the Right Moves: A Practical Guide to Scientific Management for Postdocs and New Faculty*
<http://www.hhmi.org/resources/labmanagement/moves.html>

The American Society for Cell Biology Booklet: *How To Get a Teaching Job at a Primarily Undergraduate Institution*
<http://www.ascb.org/newsfiles/teaching.pdf>

The American Society for Cell Biology Booklet: *Life Sciences Research and Teaching: Strategies for a Successful Job Hunt*
<http://www.ascb.org/newsfiles/jobhunt.pdf>

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

Science Careers Booklet: *Career Trends: The Informed Job Search, Advice for Scientists*
http://images.sciencecareers.org/images/the_informed_job_search.pdf

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

Non-Tenure Track Academics and Government

Science Careers article: "The Incredible Shrinking Tenure Track" by Beryl Lieff Benderly
http://sciencecareers.sciencemag.org/career_magazine/previous_issues/articles/2004_07_02/noDOI.17522077037716206232

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

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>

Ph.D.s.org Non-Tenure Track jobs
<http://jobs.Ph.D.s.org/non-tenure-track>

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

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

Careers in Teaching and Public Outreach

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.htm>

University of Maryland: Transition from Laboratory to Classroom Program
<http://www.education.umd.edu/EDCI/info/tlc.htm>

Teach for America:
Help Ensure Educational Opportunity for All
<http://www.teachforamerica.org/>

National Education Association (NEA)
<http://www.nea.org/>

resources

Careers in Policy

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/>

AAAS Federal R&D Budget: Science and Policy Programs
<http://www.aaas.org/spp/rd/>

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>

Scientists and Engineers for America
<http://sharp.sefora.org/about/>

FASEB Policy and Government Affairs
<http://www.faseb.org/Policy-and-Government-Affairs.aspx>

Scientists and Engineers for America:
Science Policy News Alerts
<http://sharp.sefora.org/join/>

AAAS Science and Policy Blog Alerts
<http://blogs.aaas.org/blogs/spppolicyalert/> (requires AAAS membership)

AAAS ScienceInsider: Breaking News and Analysis from the World of Science Policy
<http://news.sciencemag.org/scienceinsider/> (requires AAAS membership)

Christine Mirzayan Science & Technology Policy Graduate Fellowship Program
<http://sites.nationalacademies.org/PGA/policyfellows/index.htm>

AAAS Science & Technology Policy Fellowships
<http://fellowships.aaas.org/>

National Human Genome Research Institute: Genetics and Public Policy Fellowship
<http://www.genome.gov/10003979>

Scientists and Engineers for America: Links to Science Policy Fellowships
<http://sharp.sefora.org/chapters/science-fellowships/>

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

Research!America
<http://www.researchamerica.org/>

Industry Careers at the Bench

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

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>

BioSpace article: "What to Expect During a Structured Interview for a Research Scientist Position"
http://www.biospace.com/news_story.aspx?NewsEntityId=166186

BioCareers.com article: "Getting Started with Biopharma Research" by Christine Traxler
http://www.biocareers.com/article/resources/new_career_paths/biopharma_research/getting_started_with_biopharma_research.html

BioCareers BioPharma Research

http://www.biocareers.com/articles/new_career_paths/biopharma_research.html

Careers Away from the Bench

Science Careers Webcast: Careers Away from the Bench

http://sciencecareers.sciencemag.org/tools_tips/outreach_events/2009_02_25

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>

Ph.D.s.org Links: Business Schools for Scientists

<http://www.Ph.D.s.org/jobs/nonacademic-careers/business-school-for-scientists/>

Medical Device Sales

Medical Device Sales Recruiter: Tips and Quips

<http://www.phcconsulting.com/WordPress/category/medical-device-sales/medical-device-sales-recruitment/>

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>

Background on Pharmaceutical Market Research

<http://www.docstoc.com/docs/24873500/Pharmaceuticals-Market-Research>

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

http://sciencecareers.sciencemag.org/career_magazine/previous_issues/articles/2000_05_05/noDOI.5895535108627554113

Project Management International

<http://www.pmi.org>

Project Management/Pharma-Biotech

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

Contract Research Organizations (CROs)

Contract Pharma Magazine

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

Contract Pharma article: "CRO Industry Update:

Opportunities in Uncertain Times" by Kristin Brooks

<http://www.contractpharma.com/articles/2009/06/cro-industry-update>

The Scientist article: "Contract Research on the Rise" by Jef Akst

<http://www.the-scientist.com/blog/display/55878/>

Charles River (CRO)

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

Covance (CRO)

<http://www.covance.com/pharma/index.php>

Westat (CRO)

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

resources

Intellectual Property

Science Careers article: "In Person: Peter Brown, Patent Attorney Pending" by Peter Brown
http://sciencecareers.sciencemag.org/career_magazine/previous_issues/articles/2008_09_12/caredit.a0800136

Science Careers article: "Breaking into Law" by Career Doctor
http://sciencecareers.sciencemag.org/career_magazine/previous_issues/articles/2004_01_09/noDOI.5643471408631376802

Science Careers article: "Transferring Skills to Tech Transfer" by Lucas Laursen
http://sciencecareers.sciencemag.org/career_magazine/previous_issues/articles/2008_10_10/caredit.a0800150

Nature Jobs article: "From Bench to Briefs" by Monya Baker
<http://www.nature.com/naturejobs/2006/060803/full/nj7102-596a.html>

NIH Office of Technology Transfer Resources
Benchfly article: "Technology Transfer: Applying the Ph.D. Away from the Bench" by Alan Marnett
<http://www.benchfly.com/blog/technology-transfer-applying-the-Ph.D.-away-from-the-bench/>

<http://ott.od.nih.gov/training/training.aspx>

NCI Technology Transfer Center
<http://ttc.nci.nih.gov/mission/missionandrole.php>

Link to FAES Catalog: Courses on Technology Transfer, Patent Prosecution, Intellectual Property, and Other Business Courses
http://www.faes.org/graduate_school.htm

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://usphs-scientist.org/>

Consulting, Venture Capital and Entrepreneurship

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

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/careers/is_bcg_for_me/backgrounds/default.aspx

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

GE Healthcare Product Technology Solutions and Consulting
http://www.gehealthcare.com/usen/service/performance_solutions/solutions_consulting.html

ACTiVATE® Program at UMBC: Achieving the Commercialization of Technology Through Applied Training for Entrepreneurs
<http://www.umbc.edu/activate/>

University of Maryland Technology Start-Up Boot Camp
http://www.bootcamp.umd.edu/presentations/2009/Boot_Camp_2009_complete_program.pdf

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>

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