

Agenda at a Glance

7:45-8:45	Registration and CV/Resume Review Sign up (Building C Rotunda) Coffee (B Atrium; Breakfast available in the EPA Cafeteria)
8:45-9:00	Welcome and Opening Remarks (C111-ABC) William Schrader, Ph.D., Deputy Scientific Director, NIEHS David Dix, Ph.D., Acting Director, National Center for Computational Toxicology, US EPA Staton Wade, Ph.D., Co-Chair, NIEHS Career Fair Committee
9:00-10:00	Keynote Address (C111-ABC) – Patricia Beckmann, Ph.D., Founder, BioStrategy, LLC. “A Crook in the Road: A Real World Path in Bioscience Entrepreneurship”
10:00-10:20	Morning Break (Exhibitor Browsing – B Atrium)
10:20-11:20	Session I – Career Panels (45 minute concurrent sessions) A. Running a Successful Lab (C111-A) B. Using your Degree to Make a Change: Jobs in Science Policy (C114) Session I – Workshops (1 hour concurrent sessions) A. Networking: A Tool for Building Relationships and Exploring Career Options (C113) B. Management and Leadership Skills for Scientists (C112) CV/ Résumé Consultation Session I (Cafeteria) – 10:20-11:40 Visit Company Exhibits (B Atrium)
11:20-12:40	Informal Networking Lunch (Cafeteria – Additional space in B Atrium and Building C Rotunda) Lunchtime Discussion Sessions – 11:40-12:40 A. NIH Funding Q&A (C113) B. Making the Most of LinkedIn (C114)
12:40-1:40	Session II – Career Panels (45 minute concurrent sessions) A. Contract Research Organizations – What Can a PhD Do? (C113) B. Education and Outreach: Careers for the Scientific Extrovert (C114) C. Careers in Consulting (C111-C) Session II – Workshops (1 hour concurrent sessions) A. Setting Your Career Goal and Charting Your Course (C111-A) B. New Paradigms and Opportunities for Funding Your Research: Think Beyond the Grant (C112) CV/ Résumé Consultation Session II (Cafeteria) – 1:00-1:40 Visit Company Exhibits (B Atrium)
1:45-2:45	Session III – Career Panels (45 minute concurrent sessions) A. Careers in Public Health Protection and Promotion (C114) B. Drug Development (C111-A) C. Oh the Places We Go! Biomedical PhDs Outside of Pharma and Biotech (C111-C) Session III – Workshops (1 hour concurrent sessions) D. Preparing for the Academic Job Market (C113) E. The Interview: What You Need to Do Before, During, and After to Get the Job (C112) CV/ Résumé Consultation Session III (Cafeteria) Visit Company Exhibits (B Atrium)
2:45-4:00	Afternoon Reception – Networking and Exhibition Browsing (B Atrium)
4:00-5:00	Session IV – Career Panels (45 minute concurrent sessions) A. Career Transitions: From Academia to Industry (and Back Again) (C111-A) B. Overseeing Science: Program Administration and Grant Management (C114) Session IV – Workshops (1 hour concurrent sessions) A. Resumes for Non-academic Positions – One Size Does Not Fit All (C113) B. You Know More than you Know: Recognizing and Articulating Your Unique Value (C111-C) CV/ Résumé Consultation Session IV (Cafeteria) Visit Company Exhibits (B Atrium)

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National Institutes of Health
National Institute of
Environmental Health Sciences
P. O. Box 12233
Research Triangle Park, NC 27709
Website: www.niehs.nih.gov

Dear Attendees,

On behalf of the entire planning committee, we welcome you to the 16th Annual NIEHS Biomedical Career Fair. This is a grand tradition at NIEHS that strives to provide opportunity for young scientists like you to explore a myriad of job choices and to create a professional contact network as you plan for your future careers in the biomedical sciences. It is our honor to have this year's Keynote address delivered by Dr. Patricia Beckmann the founder of BioStrategy, LLC, former scientist at Immunex Corporation, and an inventor of the blockbuster drug Enbrel. Her speech, entitled "A Crook in the Road: A Real World Path in Bioscience Entrepreneurship" represents the overarching theme of this year's career fair.

This year's Career Fair will showcase the variety of traditional and nontraditional jobs available to biomedical PhDs and emphasize that one path can transition to another throughout your career. We want our attendees to realize that in today's funding climate there are still careers and jobs available in biomedical fields and having an open mind can lead to many different opportunities. In addition, we want to showcase scientists who have successfully navigated dynamic career paths in many different aspects of the biomedical science field. We hope their stories and insight will inspire you in the next step along your own career path.

This year's workshops cover every step of the job search process from important skills such as management for scientists to networking, interviewing, and converting your CV to a resume. We are excited to also include two brand new workshops this year geared toward research careers; *New Paradigms and Opportunities for Funding Your Research: Think Beyond the Grant* will help you discover funding opportunities outside of the NIH and *Preparing for the Academic Job Market* will give you the tools to put together an academic packet and job talk. Again this year, we have brought back the very popular one-on-one CV/Résumé Consultations with more than double the number of reviewers. These will take place throughout the day. Be sure to sign up for an appointment!

We will also be hosting an informal networking lunch and afternoon reception, to give you the opportunity to meet with panelists, workshop leaders, other attendees and exhibitors from local and regional companies and organizations. We encourage you to take advantage these opportunities for information on career paths and positions in different sectors and, most importantly, to expand your professional network!

We are honored to have you be a part of this year's Career Fair and hope that you leave today with a bright outlook for your future.

Sincerely,

Staton L. Wade, Ph.D. and Kymberly M. Gowdy, Ph.D.
Co-Chairs, 16th Annual NIEHS Biomedical Career Fair



National Institutes of Health
National Institute of
Environmental Health Sciences
P. O. Box 12233
Research Triangle Park, NC 27709
Website: www.niehs.nih.gov

April 26, 2013

Dear Career Fair Participants:

On behalf of the NIEHS and its Divisions of Intramural Research, I welcome you to the 16th Annual NIEHS Biomedical Career Fair.

This event provides postdoctoral fellows and graduate students a valuable opportunity to explore a remarkably wide range of traditional and non-traditional career options and to begin to develop the contact networks that are essential for a career in the biomedical sciences. For many of you, decisions that you make over the next few years will shape your lives as scientists for decades to come. A better understanding of the various options that are available to you and what it takes to pursue specific career paths is essential for making informed decisions.

Enjoy the day and profit from your time here.

Sincerely,

Darryl C. Zeldin, M.D.
Scientific Director



William T Schrader, Ph.D.
Deputy Scientific Director
NIEHS
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Research Triangle Park, NC 27709
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Tel.: 919-541-3433
Email: Schrader@niehs.nih.gov

National Institutes of Health
National Institute of
Environmental Health Sciences
P. O. Box 12233
Research Triangle Park, NC

Website: www.niehs.nih.gov

April 26, 2013

Dear Career Fair Participants:

Welcome to the 16th Annual NIEHS Biomedical Career Fair. Again this year members of the NIEHS Trainees Assembly and the EPA postdoc community have organized a day packed with information that will help you move forward into your career path of choice as a young biomedical scientist.

The NIEHS invests heavily in training the next generation of researchers. Our goal is to develop your abilities to work and think as independent, innovative and productive scientists in whatever scientific discipline ultimately attracts you. The NIEHS, as with EPA, is especially dedicated to understanding how and to what extent environmental factors influence the development and progression of human disease. Optimizing your own ability to contribute towards these –or any important scientific lines of inquiry - can be made through a variety of different career paths. The NIEHS endeavors to provide fellows with not only a high-quality scientific training experience, but also a wealth of educational and career development opportunities. As part of its commitment to this training, the NIEHS is pleased to support many young scientists from both the NIEHS and our local scientific community by facilitating today's exchange of information.

As you participate in the sessions organized for you, take some time to reflect on your goals for the future, whether that means to establish a general idea of what is important to your career or to enhance your specific capabilities if you already have a firm knowledge of your career path. Use this opportunity to interact with the other trainees and seasoned professionals here with you today, and ask questions about how to best achieve your goals and/or prepare yourself to obtain your next position. Challenge yourself to add a few new colleagues to your network, and return to your lab and institution where you can share something you learned with your friends and colleagues. I believe there is something for everyone at today's career fair, and I hope each of you enjoys today's events.

Best wishes for a productive day,

William Schrader, Ph.D.
Deputy Scientific Director and Training Director



National Institutes of Health
National Institute of
Environmental Health Sciences
P. O. Box 12233
Research Triangle Park, NC 27709

April 26, 2013

Dear Career Fair Participants:

Welcome to the 16th Annual NIEHS Biomedical Career Fair! The NIEHS Trainees' Assembly Steering Committee, Career Fair Committee, and EPA postdoc community have once again organized a day devoted to providing you with an opportunity to investigate the many different career paths available to you as a young biomedical scientist.

The NIEHS, one of 27 Institutes and Centers that make up the National Institutes of Health, is dedicated to the mission of discovering how the environment affects people in order to promote healthier lives. As such, the NIEHS aims to provide global leadership for innovative research that improves public health by preventing disease and disability, and is thus committed to training the next generation of environmental health scientists and professionals. Acting on this commitment, NIEHS strives to not only foster high-quality scientific training, but to also provide a wide range of educational and career development opportunities to so that each fellow may excel in his/her chosen career path. By consistently facilitating exchange of information on a wide variety of careers, NIEHS has established itself as a staunch supporter of the local scientific trainee community through its continued support the Biomedical Career Fair.

I hope you will take full advantage of the program organized for you today by the enthusiastic members of our Career Fair Committee. Please use this opportunity to investigate the variety of career paths that are available to you, and challenge yourself to learn something new. Actively participate in the workshops and learn about how to best present yourself to a potential employer. Begin building upon and expanding your network, all the while recognizing that "give and take" is an essential component of a successful networking relationship. Finally, return home to share something about your experience, and challenge yourself to act upon what you learn today to help guide your transition into a successful, rewarding career!

Best wishes,

Tammy R. L. Collins, Ph.D. [C]
Director, NIEHS Office of Fellows' Career Development

Detailed Agenda

7:45 – 8:45 **Registration and CV/Resume Review Sign-up** (*Building C Rotunda*)

Coffee (*B Atrium; Breakfast available in the EPA Cafeteria*)

8:45 – 9:00 **Welcome and Opening Remarks** (*Room C111-ABC*)

William Schrader, Ph.D.	Deputy Scientific Director, NIEHS, NIH
David Dix, Ph.D.	Acting Director, National Center for Computational Toxicology, US EPA
Staton Wade, Ph.D.	Co-Chair, NIEHS Career Fair Committee

9:00 – 10:00 **Keynote Address** (*Room C111-ABC*) Pg. 17

“A Crook in the Road: A Real World Path in Bioscience Entrepreneurship”

Patricia Beckmann, Ph.D.	Founder, Biostrategy, LLC.
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10:00 – 10:20 **Morning Break** (*Exhibitor browsing – B Atrium*)

10:20 – 11:20 **Session I** (Concurrent Sessions)

Career Panels (45 minute concurrent sessions)

A. *Running a Successful Lab (C111-A)* Pg. 18

Alison Harrill, Ph.D.	Institute for Drug Safety Science, Hamner Institutes for Health Sciences
Sue Jinks-Roberston, Ph.D.	Professor, Department of Molecular Genetics and Microbiology, Duke University Medical Center
Roger Woodgate, Ph.D.	Chief, Laboratory of Genomic Integrity, Eunice Kennedy Shriver National Institute of Child Health and Human Development, NIH

B. *Using Your Degree to Make a Change: Jobs in Science Policy (C114)* Pg. 20

Neal Fann	US Environmental Protection Agency, RTP, NC
Scott Jenkins, Ph.D.	US Environmental Protection Agency, RTP, NC
Kei Koizumi	Office of Science and Technology Policy, Washington, D.C

Detailed Agenda

Workshops (1 hour concurrent sessions)

- A. *Networking: A Tool for Building Relationships and Exploring Career Options (C113) Pg. 22*

Dara Wilson-Grant, M.S.Ed., NCC UNC Chapel Hill, Careers in Bloom

- B. *Management and Leadership Skills for Scientists (C112) Pg. 23*

Lori Conlan, Ph.D. Director, Office of Postdoc Services, OITE, NIH

CV/Résumé Consultation Session I 10:20-11:40 (Cafeteria) Pg. 15

Visit Company Exhibits (B Atrium) Pg. 45

11:20 – 12:40 Informal Networking Lunch (Cafeteria – Additional space in B Atrium and Building C Rotunda) Pg. 16

Lunchtime Discussion Sessions – 11:40-12:40

- A. *NIH Funding Q&A (C113) Pg. 16*

William Schrader, Ph.D. Deputy Scientific Director, NIEHS, NIH

Carol Shreffler, Ph.D. Program Officer, Training and Career Development Program, NIEHS, NIH

- B. *Making the Most of LinkedIn (C114) Pg. 16*

Tracy Clement, Ph.D. Fellow, LRDT, NIEHS

12:40 – 1:40 Session II (Concurrent Sessions)

Career Panels (45 minute concurrent sessions)

- A. *Contract Research Organizations – What Can a PhD Do? (C113) Pg. 24*

Cynthia Holley, Ph.D. Scientist II at Fujifilm Diosynth Biotechnologies, Cary, NC

Chris Learn, Ph.D., PMP Quintiles Senior Clinical Project Manager, Durham, NC

Radhika Nagarkar, Ph.D. Scientist II at KBI Biopharma, Raleigh-Durham, NC

- B. *Education and Outreach: Careers for the Scientific Extrovert (C114) Pg. 25*

Gillian Backus, Ph.D. Associate Professor, Biology, Northern Virginia Community College, Washington DC

Heather B. Miller, Ph.D. Assistant Professor of Biochemistry, High Point University, High Point, NC

Detailed Agenda

Kelly Leovic, Ph.D.	Director, STEM Program, U.S. Environmental Protection Agency
Laurence Frabotta, Ph.D.	Director, Office of Postdoctoral Affairs, University of Virginia, Charlottesville, VA
Brian Dewar, Ph.D.	Assistant Professor, Biology, Taylor University, Upland, IN

C. *Careers in Consulting (C111-C) Pg. 26*

Geoff Banks, Ph.D.	President and CEO, Kinetigen, Inc. RTP, NC
Patricia Beckmann, Ph.D.	Founder, BioStrategy, LLC.
Mary Jane Selgrade, Ph.D.	Expert Consultant, ICF International, Durham, NC

Workshops (1 hour concurrent sessions)

A. *Setting Your Career Goal and Charting Your Course (C111-A) Pg. 29*

Diane Klotz, Ph.D.	Director, Office of Training and Academic Services, Sanford-Burnham Medical Research Institute, San Diego, CA
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B. *New Paradigms and Opportunities for Funding Your Research: Think Beyond the Grant (C112) Pg. 30*

Alaina G. Levine	President, Quantum Success Solutions, Tucson, AZ
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CV/Résumé Consultation Session II 1:00-1:40 (Cafeteria) Pg. 15

Visit Company Exhibits (B Atrium) Pg. 45

1:45 – 2:45 Session III (Concurrent Sessions)

Career Panels (45 minute concurrent sessions)

A. *Careers in Public Health Protection and Promotion (C114) Pg. 31*

Eva McLanahan, Ph.D.	LCDR, US Public Health Service Toxicologist, EPA, RTP, NC
Emily Sickbert-Bennett, Ph.D.	Associate Director, Hospital Epidemiology, UNC
Heather Stapleton, Ph.D.	Associate Professor, Duke University
Bill Pan, Dr.P.H.	Assistant Professor, Duke University

Detailed Agenda

B. *Drug Development (C111-A) Pg. 33*

Emma-Jane Poulton, Ph.D.	Research Investigator, Sanofi, Waltham, MA
Rajesh Ranganathan, Ph.D.	Director, Office of Translational Research, National Institute for Neurological Disorders and Stroke, NIH
Patricia Beckmann, Ph.D.	Founder, BioStrategy, LLC.

C. *Oh the Places We Go! Biomedical PhDs Outside of Pharma and Biotech (C111-C) Pg. 35*

Ann Beaulieu, Ph.D.	Director, Regulatory Affairs at AgroFresh, Greater Philadelphia Area
Christal Bowman, Ph.D.	Senior Scientist, Bayer CropScience, Research Triangle Park, NC
Sarah Taylor, Ph.D.	Director of Editing Operations at American Journal Experts, Raleigh-Durham, NC

Workshops (1 hour concurrent sessions)

A. *Preparing Your Academic Job Packet (C113) Pg. 37*

Melanie Sinche, M.A., M.Ed., NCC	Director, FAS Office of Postdoctoral Affairs, Harvard University, MS
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B. *The Interview: What You Need to do Before, During, and After to Get the Job (C112) Pg. 38*

Alaina G. Levine	President, Quantum Success Solutions, Tucson, AZ
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CV/Résumé Consultation Session III (Cafeteria) Pg. 15

Visit Company Exhibits (B Atrium) Pg. 45

2:45 – 4:00 **Afternoon Reception – Networking and Exhibition Browsing** (B Atrium)

4:00 – 5:00 **Session IV** (Concurrent Sessions)

Career Panels (45 minute concurrent sessions)

A. *Career Transitions: From Academia to Industry (and Back Again) (C111-A) Pg. 39*

Stefan Bekiranov, Ph.D.	Associate Professor of Biochemistry and Molecular Genetics, University of Virginia
Donald Cook, Ph.D.	Principal Investigator, Immunogenetics Group, National Institute of Environmental Health Sciences, NIH

Detailed Agenda

Gary R. Burleson, Ph.D.

CEO/President, BRT©-Burleson Research Technologies, Inc., Morrisville, NC

B. Overseeing Science: Program Administration and Grant Management (C114) Pg. 41

Danielle Carlin, Ph.D., DABT

Program Administrator, Superfund Research Program, NIEHS, NIH

Michael C. Humble, Ph.D

Program Administrator, NIEHS, NIH

Jana Stone, Ph.D.

Scientific Coordinator, Duke University

Thaddeus Schug, Ph.D.

Health Scientist Administrator, NIEHS, NIH

Workshops (1 hour concurrent sessions)

A. Resumes for Non-Academic Positions – One Size Does Not Fit All (C113) Pg. 43

Pat Phelps, Ph.D.

Educational Specialist, Smithsonian National Museum of Natural History

B. You Know More than you Know: Recognizing and Articulating Your Unique Value (C111-C) Pg. 44

Alaina G. Levine

President, Quantum Success Solutions, Tucson, AZ

CV/Résumé Consultation Session IV (Cafeteria) Pg. 15

Visit Company Exhibits (B atrium) Pg. 45

Sponsors



National Institute of
Environmental Health Sciences

National Institute of Environmental Health Sciences (NIEHS)

*111 T.W. Alexander Drive
Research Triangle Park, North Carolina 27709
www.niehs.nih.gov*

Human health and human disease result from three interactive elements: environmental factors, individual susceptibility and age. The mission of the National Institute of Environmental Health Sciences (NIEHS) is to reduce the burden of human illness and dysfunction from environmental causes by understanding each of these elements and how they interrelate. The NIEHS achieves its mission through multidisciplinary biomedical research programs, prevention and intervention efforts, and communication strategies that encompass training, education, technology transfer and community outreach.



**U.S. Department of Health and Human Services
National Institutes of Health
National Institute of Environmental Health Sciences**

Sponsors



Working Together for a Cleaner Environment

The Environmental Protection Agency's campus in Research Triangle Park, North Carolina is home to one of the world's largest groups of scientists, engineers, policy makers and administrators dedicated to understanding and solving environmental problems.

The mission of the Environmental Protection Agency is to protect human health and the environment. Since 1970, EPA has been working for a cleaner, healthier environment for the American people. EPA leads the nation's environmental science, research, education and assessment efforts.



Develop and enforce regulations: EPA works to develop and enforce regulations that implement environmental laws enacted by Congress. EPA is responsible for researching and setting national standards for a variety of environmental programs, and delegates to states and tribes the responsibility for issuing permits and for monitoring and enforcing compliance. Where national standards are not met, EPA can issue sanctions and take other steps to assist the states and tribes in reaching the desired levels of environmental quality.

Offer financial assistance: In recent years, between 40 and 50 percent of EPA's enacted budgets have provided direct support through grants to State environmental programs. EPA grants to States, non-profits and educational institutions support high-quality research that will improve the scientific basis for decisions on national environmental issues and help EPA achieve its goals.

Perform environmental research: At laboratories located throughout the nation, the Agency works to assess environmental conditions and to identify, understand, and solve current and future environmental problems; integrate the work of scientific partners such as nations, private sector organizations, academia and other agencies; and provide leadership in addressing emerging environmental issues and in advancing the science and technology of risk assessment and risk management.

Sponsor voluntary partnerships and programs: The Agency works through its headquarters and regional offices with over 10,000 industries, businesses, non-profit organizations, and state and local governments, on over 40 voluntary pollution prevention programs and energy conservation efforts. Partners set voluntary pollution-management goals; examples include conserving water and energy, minimizing greenhouse gases, slashing toxic emissions, re-using solid waste, controlling indoor air pollution, and getting a handle on pesticide risks. In return, EPA provides incentives like vital public recognition and access to emerging information.

Further environmental education: EPA advances educational efforts to develop an environmentally conscious and responsible public, and to inspire personal responsibility in caring for the environment.

Networking Opportunities

As you will hear throughout the day, networking is an integral part of career development and searching for a job. Therefore, we have made every effort to allow you as many opportunities as possible to expand your professional network during today's career fair. Below are three different ways you will be able to network with the panelists and exhibitors.

Informal Networking Lunch: 11:20 – 12:40

Grab your lunch and feel free to politely seek out a panelist or speaker and learn about their organization and career. Spaces in the Cafeteria, B Atrium and Building C Rotunda are available. *See page 16 for details.*

Networking Reception: 2:45 – 4:00

What better way to meet new people and learn about different careers than over drinks and a cookie! This networking session will bring together all participants, panelists, speakers, and exhibitors for an afternoon break and networking reception.

Visiting Exhibitor Booths

Throughout the day, representatives from several organizations in the area will be set up in the B Atrium. Be sure to ask them about their science and what sorts of jobs their company has for PhD level scientists. Exhibitors are not conducting interviews or accepting applications during the career fair, but knowing someone on the inside can be very valuable when it does come time to apply for a position. *See page 45 for a list of Exhibitors.*

CV/Résumé Reviews

CV and Résumé consultations will be conducted by appointment throughout the day with career services experts.

Please follow these directions to make your appointment:

1. Sign up for an appointment in the morning on the board in the Rotunda by the registration desk.
2. **NEW THIS YEAR:** Some reviewers specialize in reviewing only certain types of CV/resumes. Please refer to their expertise listed on the table when making an appointment.
3. Select **ONE** 20-minute time slot that you prefer and write your name in the single time slot.
4. Take the sticker with the corresponding appointment time as your reminder.
5. **Please keep your appointment.** If you cannot keep your appointment, speak to a volunteer at the registration desk or in the cafeteria.

Consultant *	Title	Affiliation	Session
Expertise: Academic, Government, and Industry			
Prakash Bhawe, Ph.D.	Senior Science Advisor, Atmospheric Modeling Division	US EPA	I, II
Amy Blackburn, M.S.Ed.	Senior Assistant Director for Graduate Students	UNC	I, II, III, IV
Nisha Cavanaugh, Ph.D.	Director, Office of Postdoctoral Affairs	NC State University	I, IV
Tammy Collins, Ph.D.	Director, Office of Fellows' Career Development	NIEHS	I, II, III, IV
Lori Conlan, Ph.D.	Director-Office of Postdoc Services	OITE, NIH	II, III, IV
Ken Elstein, M.B.A.	Organizational Development Specialist	US EPA	I, II
Erin Hopper, Ph.D.	Director, Training Initiatives in Biomedical and Biological Sciences	UNC	I, III
Diane Klotz, Ph.D.	Director, Office of Training & Academic Services	Sanford-Burnham Research Institute	I, IV
Alaina Levine	Career Consultant	Quantum Success Solutions	I
Rachel Murrell, Ph.D.	Founder, Postdoctoral Association	East Carolina University	I, II, III, IV
Pat Phelps, Ph.D.	Education Specialist	Smithsonian National Museum of Natural History	I, II, III
Amy Rawls, Ph.D.	Recruitment and Talent Development	American Journal Experts	I, II, III, IV
Jen Richmond-Bryant, Ph.D.	Research Physical Scientist	US EPA	I, II, III
Denise Saunders, Ph.D.	Career Counselor	OITE NIH	I, III, IV
Melanie Sinche, M.A., M.Ed., NCC	Director, FAS Office of Postdoctoral Affairs	Harvard University	I, IV
Molly Starback, M.S.L.S	Director, Office of Postdoctoral Services	Duke University	I, II, III
Expertise: Government			
Dan Costa, Sc.D.	National Program Director for Air, Climate and Energy Research	US EPA	I, II
Andrew Lindstrom, Ph.D.	Research Physical Scientist	US EPA	I, II, III, IV
Molini Patel, Ph.D., M.P.H.	Epidemiologist	US EPA	I, II, III, IV
Paul Schlosser, Ph.D.	Environmental Health Scientist	US EPA	III, IV
Expertise: Industry			
Ann Beaulieu, Ph.D.	Director, Regulatory Affairs	AgroFresh	I, IV

* Contact information for the consultants can be found in the back of this booklet.

Lunch

Lunch is available from the cafeteria. If you pre-registered on-line you will be given a ticket when you pick up your career fair package from the registration desk. This ticket entitles you to a discount on the lunch buffet available in the cafeteria. Please give your ticket to the cashier when paying for your lunch. Seating is available in the cafeteria with additional seating in the B Atrium and across from the registration desk.

Informal Networking Lunch (11:20-12:40)

(Cafeteria - Additional space in B Atrium and Building C Rotunda)

Lunch is a great opportunity for informal networking. Put those skills you learned in the morning Networking Workshop to work or introduce yourself to a panelist on your preferred career path. This is a great time to meet the panelists, workshop presenters and exhibitors, and expand your professional network!

This is an informal Networking opportunity. To make it easier for you to find panelists, we have designated tables in the cafeteria for each panel. Look for table tents with the panel names. Feel free to join the panelists and learn more about their organization and career. Many of the workshop presenters will also be around during lunch with the expectation of networking so feel free to seek them out and introduce yourself.

Lunchtime Discussion Sessions (11:40-12:40)

Informal Q&A sessions during the lunch break. If you are interested in one of these topics, grab your lunch and head to C113 or C114.

A. NIH Funding Q&A (C113)

Presented by William Schrader, Ph.D., Deputy Scientific Director & Training Director, NIEHS, NIH and Carol Shreffler, Ph.D., Program Officer, Training and Career Development Program, NIEHS, NIH

There have been recent changes to the K99/R00 Pathway to Independence Award mechanism and Dr. Schrader and Dr. Shreffler will be available to answer all of your questions regarding applying for the K99 and other NIH funding issues. The K99 offers a unique opportunity for postdoctoral fellows to be supported during the completion of their mentored position as well as during the first 3 years of a tenure-track position. This session will provide a brief overview of recent changes to eligibility requirements, how to apply and the review process.

B. Making the most of LinkedIn (C114)

Presented by Tracy Clement, Ph.D., NIEHS

Why maintain a LinkedIn profile? Grab your lunch and join us to learn what this networking site can do for you. Tracy will share tips to help you present your best image and build effective networks on LinkedIn followed by an open discussion with example profiles.

Keynote Address

“A Crook in the Road: A Real World Path in Bioscience Entrepreneurship”

9:00 - 10:00 AM Room C111-ABC

Introduction by Staton Wade, Ph.D., Co-Chair, 2013 NIEHS Career Fair Committee



Patricia Beckmann, Ph.D.

Dr. Patricia Beckmann's career spans research, operations, law and venture capital. Patricia spent most of her career at Immunex Corporation and Amgen in Research, Administration and Law. She is an inventor of the drug Enbrel (2012 worldwide sales ~\$8B), for which she was awarded National Inventor of the Year in 2000. She was an Investment Specialist for Microsoft Co-founder Paul Allen's Vulcan Capital and a member of the strategy team establishing the endowed Allen Institute for Brain Sciences. She was founding Chief Scientific Officer for Homestead Clinical (now Integrated Diagnostics) at the venture-backed Accelerator in Seattle. Dr. Beckmann was also President of the Oregon Translational Research and Development Institute where she developed an incubator model for bioscience start-ups.

Recently she established BioStrategy, LLC. Her team focuses on strategic planning for start-ups, non-profits and academic clients. She serves on the Boards of Cancer Research and Biostatistics and Aronora Biopharma and the Advisory Board of Northwest Technology Ventures.

Patricia earned her BA from The Evergreen State College and her PhD from the University of Arizona, College of Medicine. She was a Fulbright Scholar in Sweden, an NRSA Fellow at the National Cancer Institute and a Kauffman Fellow. She has over 50 peer-reviewed scientific publications and over 40 issued U.S. Patents to her credit.

Session I: Career Panels

Running a Successful Lab

10:20 - 11:20 AM Room C111-A
Moderator: Bret Freudenthal, Ph.D.

Did you miss the class on managing and running your own lab? Well you aren't alone! Come learn how to run a successful lab with a panel of team leaders from non-profit, academic, and government labs. The panel will share their experiences on a broad range of topics from personnel management, obtaining and managing money, what to look for in future employees, how to start and maintain a successful group, and much more.

Alison Harrill, Ph.D.

Institute for Drug Safety Sciences
Hamner Institutes for Health Sciences
aharrill@thehamner.org

Dr. Alison Harrill is a Research Investigator at The Hamner-UNC Institute for Drug Safety Sciences, a non-profit research institute in Research Triangle Park, NC. She received her Ph.D. in Toxicology from the University of North Carolina at Chapel Hill and currently heads the Translational Pharmacogenomics Laboratory at the Hamner where she has worked since 2008. Dr. Harrill's research focuses on using genetically diverse mouse models as an improved model for prediction of drug safety liabilities in humans. Her research has gained national attention and awards ranging from the 2009 "outstanding published paper advancing the science of risk assessment" to a top 10 best abstract award and mentoring awards from the Risk Assessment Specialty Section of the Society of Toxicology. She currently serves as a member and project team leader for consortia efforts including the Predictive Testing Safety Consortium and the ILSI/HESI committees on application of genomics to risk assessment and biomarkers of nephrotoxicity. In addition, Dr. Harrill supports the mission of the UNC School of Pharmacy where she holds an adjunct faculty position and lectures on pharmacogenomics at Duke University.

Sue Jinks-Roberston, Ph.D.

Professor, Department of Molecular Genetics and Microbiology
Duke University Medical Center
sue.robertson@duke.edu

Dr. Sue Jinks-Robertson is a professor in the Department of Molecular Genetics and Microbiology at Duke University. She received her BS in Biology from Agnes Scott College and Ph.D. in Genetics from the University of Wisconsin. Following her postdoctoral training at the University of Chicago, she joined the Department of Biology at Emory University. While at Emory she was awarded the Winship Distinguished Research Professor in 2005. In 2006 she joined the Department of Molecular Genetics and Microbiology at Duke. Her major research interests are regulation of genome stability, using budding yeast as a model genetic system. Current interests include the regulation of mitotic recombination fidelity and outcome; molecular mechanisms of spontaneous mutagenesis; effects of high levels of transcription on genome stability. She is also actively involved in organizing international conferences, serves on multiple editorial boards, NIH review sections, and the Genetics Society of America. She recently was appointed a fellow of the American Academy of Microbiology and the American Association of the Advancement of Science.

Roger Woodgate, Ph.D.

Chief, Laboratory of Genomic Integrity,
Eunice Kennedy Shriver National Institute of Child Health and Human Development, NIH
woodgate@nih.gov

Roger Woodgate has worked at the National Institutes of Health in Bethesda, Maryland for over two decades and is currently Chief of the Laboratory of Genomic Integrity in the National Institute of Child Health and Human Development. His doctoral studies were at the

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MRC Cell Mutation Unit at the University of Sussex in Brighton under the supervision of Bryn Bridges. His post-doctoral studies were at the University of California, Berkeley, in the lab of the late Harrison Echols. Roger's laboratory currently investigates the molecular mechanism of mutagenesis promoted by Y-family DNA polymerases in variety of model organisms ranging from *Escherichia coli* to mammals.

Session I: Career Panels

Using Your Degree to Make a Change: Jobs in Science Policy

10:20 - 11:20 AM Room C114

Moderator: Michelle Oakes, Ph.D.

Are you interested in a science position outside of the laboratory? Have you ever wondered how science impacts policy? Or want to know how to apply your scientific expertise to make a change on a community or national scale? Attend this session to find out more about career opportunities in science policy. A wide range of panelists, who have impacted local and federal policy, have been selected to provide a broad perspective on careers in science policy. Learn more about their experiences, such as why they decided this career path, how they landed their current position, as well as the advantages and disadvantages of working in policy.

Neal Fann

US Environmental Protection Agency
RTP, NC
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After graduating from the Duke University Sanford School of Public Policy in 2003, Neal Fann began work in the Office of Air and Radiation of the U.S. Environmental Protection Agency as a Presidential Management Fellow, where he now characterizes the human health impacts and monetized benefits, of changes in air pollution. Neal manages the environmental Benefits Mapping and Analysis Program (BenMAP), the PC-based program that EPA uses to estimate the health and economic benefits of air quality rules. Neal's research interests include characterizing the health impacts of poor air quality among highly susceptible populations. He recently authored articles examining the public health burden of recent levels of fine particles and ground-level ozone in the U.S. and a proof of concept approach for reducing the health burden of air pollution among susceptible populations while both maximizing the public health benefits of air quality improvements and achieving a more equitable distribution of risk. His current research uses source apportionment photochemical modeling results to apportion by emission sector the health burden of current and projected PM_{2.5} and ozone levels among susceptible populations.

Scott Jenkins, Ph.D.

US Environmental Protection Agency
RTP, NC
Jenkins.scott@epa.gov

Scott Jenkins received a BA in Psychology from Furman University (in Greenville, SC) (1994), a PhD in Behavioral Neuroscience from Univ Alabama at Birmingham (1999), and was a Howard Hughes Medical Institute Postdoctoral Research Fellow at Duke Univ, in the Dept. of Cell Biology (1999-2001). After his fellowship at Duke, he was an EPA Postdoc in the Neurotoxicology division in NHEERL (2001-2003); worked in OAR/OAQPS in the air toxics program (Residual Risk, MACT programs) (2003-2007). He has worked in OAR/OAQPS in the National Ambient Air Quality Standards (NAAQS) program (2007-present). He also served briefly (5/2006 to 9/2006) on a detail as the acting Assistant Laboratory Director for Air Research in NHEERL.

Kei Koizumi

Office of Science and Technology Policy
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kkoizumi@ostp.eop.gov

Kei Koizumi is Assistant Director for Federal Research and Development at the White House Office of Science and Technology Policy (OSTP). He is known as a leading authority on federal science and technology funding and budget issues and is a frequent speaker to public groups and to the press. Before joining OSTP, Koizumi served as the Director of the R&D Budget and Policy Program at the

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American Association for the Advancement of Science (AAAS). Koizumi received his M.A. from the Center for International Science, Technology, and Public Policy program at George Washington University, and received his B.A. in Political Science and Economics from Boston University. He is a Fellow of the American Association for the Advancement of Science.

Session I – Workshops

Networking: A Tool for Building Relationships and Exploring Career Options

10:20 - 11:20 AM Room C113

Presented by Dara Wilson-Grant, M.S.Ed., NCC

Networking is one of the most effective approaches to getting your career on the fast track. Yet, for a variety of reasons (e.g., shyness, negative perceptions), most of us fail to make networking an active part of our ongoing career development. In this workshop, participants will learn the keys to tactful networking along with easy-to-use strategies for face-to-face networking, corresponding via email, and the appropriate use of social media.

Dara Wilson-Grant, M.S.Ed., NCC

UNC Chapel Hill, Careers in Bloom
dara@careersinbloom.com

Dara Wilson-Grant has over 15 years of experience providing career counseling and career management education to students and professionals across a wide range of disciplines and career fields. She currently serves as the Associate Director at UNC Chapel Hill's Office of Postdoctoral Affairs, providing personalized individual career counseling to postdoctoral scholars.

Dara is also the owner of Careers in Bloom, where she designs and presents a variety of career management workshops and seminars that facilitate personal and professional growth, strategic planning and career advancement. Her career management workshops have been presented at universities, government agencies, and research institutions, both nationally and internationally.

Dara holds a Master's Degree in Counseling from Fordham University. She is also a National Certified Counselor (NCC) and Licensed Professional Counselor Associate (LPCA).

Session I – Workshops

Management and Leadership Skills for Scientists

10:20 - 11:20 AM Room C112

Presented by Lori Conlan, Ph.D.

This session will discuss the common challenges and pitfalls that new managers experience regardless if you are heading to academics, industry, non-profit or government. We will discuss managing expectations, motivating others and dealing with conflict.

Lori Conlan, Ph.D.

Director-Office of Postdoc Services

OITE, NIH

conlanlo@mail.nih.gov

Lori M. Conlan is trained as a biochemist, receiving her B.S. in biochemistry from Michigan State University and her Ph.D. in biochemistry and biophysics from Texas A&M University. She worked for several years as a postdoc at the Wadsworth Center, NYS Department of Health, before transitioning from the lab to focus on career issues for the next generation of scientists. Lori started as the director of the Science Alliance, an international career development program for graduate students and postdocs sponsored by the New York Academy of Sciences. She now is at the NIH in the Office of Intramural Training & Education assisting the 4000 NIH postdocs in their personal career choices. Lori is the director of two offices, the Office of Postdoctoral Services and the NIH Career Services Center.

Session II – Career Panels

Contract Research Organizations: What Can a Ph.D. Do?

12:40 – 1:40 PM Room C113

Moderator: Kimberly Wiggins, Ph.D.

Have you ever wondered about research opportunities outside of academia, government, biotechnology and pharmaceutical companies? Contract Research Organizations (CROs) were first established in the late 1970s and quickly took on a significant role in research and development. CROs provide research support to the pharmaceutical, biotechnology, and medical fields as well as research institutions and government organizations. With many companies outsourcing their work to these organizations, the interest and growth in this field has been exponential. This panel focuses on the various opportunities within CROs. Find out what it is like to work at a CRO, and learn why the panelists chose this career path and how they obtained employment within the company.

Cynthia Holley, Ph.D.

Scientist II at Fujifilm Diosynth Biotechnologies
Cary, NC
cynthia.holley@fujifilmdb.com

Cynthia Holley obtained her B.S. in Biochemistry from NC State University and then completed her Ph.D. in Biochemistry and Biophysics from UNC-Chapel Hill. She did her postdoctoral work at the National Institute of Environmental Health Sciences in the Macromolecular Structure Group under the direction of Dr. Traci M.T. Hall. Cynthia currently holds the position of Scientist II at FUJIFILM Diosynth Biotechnologies, a biopharmaceutical contract manufacturing organization. She works in the Process Development division, where she develops protein purification processes and helps to transition those processes from lab scale to manufacturing scale.

Chris Learn, Ph.D., PMP

Quintiles Senior Clinical Project Manager
Durham, NC
chris.learn@quintiles.com

As a clinical research professional with trials execution and management experience, Chris

is enthusiastic and passionate about oncology research. As a former project leader with the Duke Brain Tumor Center, Chris has been an author on three separate investigator-initiated clinical trials, and was part of the design, implementation and execution of each of those studies. As a certified Project Management Professional (PMP) at Quintiles, Chris has led five multi-million dollar global oncology studies and numerous regional trials, assuming full operational and financial accountability for each.

Radhika Nagarkar, Ph.D.

Scientist II at KBI Biopharma
Raleigh-Durham, NC

Radhika Nagarkar works in Biopharmaceutical Development with KBI Biopharma, a contract research organization based in Durham, NC. Her research interests include analytical characterization of protein therapeutics and their higher order structure. Previously, she worked with GlaxoSmithKline in King of Prussia, PA. Radhika earned her Ph.D. at the University of Delaware studying peptide self-assembly with Professor Joel Schneider.

Session II – Career Panels

Education and Outreach: Careers for the Scientific Extrovert

12:40 – 1:40 PM Room C114
Moderator: Jen Nichols, Ph.D.

The typical portrayal of a scientist is that of an introverted intellectual, but some scientists actually enjoy talking about science with people that are not scientists. This session includes panelists that have used their scientific expertise developed through graduate studies and postdoctoral experience to help others in their understanding and pursuit of science. This panel will provide attendees with an opportunity to learn more about outreach and teaching positions in academia and government. Specific emphasis will be placed on topics such as understanding what experience is desired and/or necessary to start on this career path as well as how to gain this experience or translate prior experience that may be relevant. Additionally, panelists will discuss their experience with the application process, potential for conducting research, and unexpected aspects of their career. If you consider yourself to be an extroverted scientist, perhaps a career in education and outreach is for you. Please join this panel session to learn more about this career field and ask questions of these diverse and experienced panelists.

Gillian Backus, Ph.D.

Associate Professor, Biology
Northern Virginia Community College,
Washington DC
gbackus@nvcc.edu

Gillian Backus is Associate Professor of Biology at Northern Virginia Community College, Loudoun Campus where she teaches Anatomy and Physiology, Biology, and Environmental Science. From 2006-2009, Gillian worked for the US EPA in Washington, DC., where she evaluated chemical risk assessment. She earned her Ph.D. in Toxicology from the University of North Carolina-Chapel Hill in 2006. She conducted her research at NIEHS in the laboratory of Dr. Steven R. Kleeberger. Her dissertation focused on the effect of polymorphisms of innate immune genes to influence differential susceptibility to pulmonary inflammation in response to ozone exposure. Gillian then studied science and policy issues at the National Academy of Sciences in Washington, D.C. as a Science and Technology Policy Fellow. In her life before graduate school, Gillian taught high school biology at independent schools. She graduated *magna cum laude* with a B.A. and High Honors from Mount Holyoke College with a Biology major and French minor. She is happily married and lives with her two-year old son and two dogs in Vienna, VA. Gillian has a passion for the outdoors and environmental

stewardship, and enjoys backpacking, kayaking and traveling.

Heather B. Miller, Ph.D.

Assistant Professor of Biochemistry
High Point University, High Point, NC
hmill@highpoint.edu

Dr. Heather Miller received her B.S. in Molecular Biology/ Biotechnology from Clarion University of Pennsylvania in 2003, graduating summa cum laude. She went on to earn her Ph.D. in Molecular Genetics from Duke University in 2009. While at Duke, she pursued her interest in teaching by serving as a T.A. and completing a Certificate in Teaching College Biology. Heather then completed a 3-year teaching postdoc at North Carolina State University in the Biotechnology Program, where she designed and implemented two new classes, taught several existing ones, and mentored undergraduate researchers. In 2012, Heather was appointed as a tenure-track faculty member in High Point University's Department of Chemistry and Physics, where she teaches general chemistry and several courses in the Biochemistry Major's curriculum. She has authored multiple publications in the area of gene expression regulation, as well as the scholarship of teaching and learning. Heather is the coauthor of a recently published textbook, "Molecular Biology Techniques: A Classroom Laboratory Manual".

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Kelly Leovic, Ph.D.

Director, STEM Program
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Kelly, an Environmental Engineer, has worked in EPA's Office of Research and Development in Research Triangle Park, NC since 1987. As the Director of EPA-RTP's (Science, Technology, Engineering, & Math) STEM Program, Kelly collaborates with schools and the community to develop and implement educational outreach programs, particularly in minority and low-income K-12 schools. Kelly co-chairs Durham Public School's Business Advisory Council and is on the NC New Schools Energy & Sustainability STEM Industry Innovation Council. During her career at EPA, Kelly has also conducted research on indoor air quality in schools and on human exposure to pollutants. Previously, she worked as a Field Engineer for Inter-Mountain Engineering in Avon, CO.

Kelly holds a Masters of Business Administration from the Fuqua School of Business at Duke University, a Masters of Science from the Department of Civil and Environmental Engineering at Duke University in Clay Liners for Hazardous Waste Landfills, and a Bachelors of Science in Geology and Math from Duke University.

Laurence Frabotta, Ph.D.

Director, Office of Postdoctoral Affairs
University of Virginia, Charlottesville, VA
frabotta@virginia.edu

Laurence Frabotta recently joined the University of Virginia as the Director of their new Office of Postdoctoral Affairs. In addition, Laurence currently sits on the Board of Directors for the National Postdoctoral Association. Prior to UVA, Laurence served as the Director of the Postdoctoral Development Program (PDP) at The City University of New York (CUNY). In this capacity, Laurence oversaw the PDP steering committee, implemented career development and RCR training of postdocs,

and served as an advocate and liaison for CUNY's postdocs, including serving on the New York Academy of Science Science Alliance steering committee and liaison to the Northeast Postdoc Office Consortium. During this time, Laurence also served as the Biomedical Science Advisor for the New York City Science and Engineering Fair (NYCSEF), the high school science fair program for NYC schools, and developed the CUNY-wide Science Café, *Serving Science*. Before moving to administration, Laurence was an HHMI Postdoctoral Fellow at Queens College–CUNY. He received his PhD in Zoology from Texas A&M University and earned BS and MS degrees (Zoology and Biology, respectively) at California State University, Long Beach. Laurence has over 16 years of teaching experience at the university level, most recently as an adjunct professor of biology teaching courses in Biostatistics, Bioinformatics, Phylogenetic Analysis, Comparative Physiology, and Comparative Vertebrate Anatomy.

Brian Dewar, Ph.D.

Assistant Professor, Biology
Taylor University
Upland, IN
brdewar@tayloru.edu

Brian Dewar is currently an Assistant Professor of Biology at Taylor University. Dr. Dewar joined the faculty at Taylor in 2010 and is responsible for teaching undergraduate classes including Introductory Biology, Anatomy and Physiology, and Genetics in addition to advising undergraduate students. Prior to his position at Taylor, Dr. Dewar was a postdoc in Jeffrey McDonald's lab in the Department of Biomedical Engineering at the University of North Carolina. Dr. Dewar earned his Ph.D. in 2007 from the Curriculum in Toxicology at the University of North Carolina where he studied PPAR γ -independent Mechanisms of Src Kinase Activation and EGFR Transactivation in Response to Thiazolidinediones under the supervision of Dr. Lee Graves. He completed his B.S. in Biology at Geneva College.

Session II – Career Panels

Careers in Consulting

12:40 – 1:40 PM Room C111-C
Moderator: Georgette Charles, Ph.D.

Have you ever wondered about the business science of science? Have you been interested in applying your problem solving skills to make a long-standing impact within the pharmaceutical, biological, and health care industries? The “Careers in Consulting” panel will provide you with a unique opportunity to learn from Ph.D.-level consultants who took a step away from the bench and into the consulting world. Learn how they got there, why they enjoy what they do, and which skills will most help you transition from bench scientist to consultant.

Geoff Banks, Ph.D.

President and CEO
Kinetigen, Inc. RTP, NC
gbanks@kinetigen.com

Geoffrey Banks, Ph.D. is the President and CEO of Kinetigen Inc., a leading consulting firm in clinical pharmacology and pharmacokinetics for the pharmaceutical industry. After receiving his Ph.D. in protein biochemistry from Washington State University and a post-doctoral appointment at NIEHS, Dr. Banks transitioned to pharmaceutical drug development in 2001. In 2008, Dr. Banks founded Kinetigen (formally known as ClinPharm Consulting) and has extensive experience working with large pharma, biotech, and specialty pharma on global development programs across a wide range of therapeutic areas.

Patricia Beckmann, Ph.D.

Founder
BioStrategy, LLC.
mpbeckmann@biostrategyllc.com

Dr. Patricia Beckmann’s career spans research, operations, law and venture capital. Patricia spent most of her career at Immunex Corporation and Amgen in Research, Administration and Law. She is an inventor of the drug Enbrel (2012 worldwide sales ~\$8B), for which she was awarded National Inventor of the Year in 2000. She was an Investment Specialist for Microsoft Co-founder Paul Allen’s Vulcan Capital and a member of the strategy team establishing the endowed Allen Institute for Brain Sciences. She was founding Chief

Scientific Officer for Homestead Clinical (now Integrated Diagnostics) at the venture-backed Accelerator in Seattle. Dr. Beckmann was also President of the Oregon Translational Research and Development Institute where she developed an incubator model for bioscience start-ups.

Recently she established BioStrategy, LLC. Her team focuses on strategic planning for start-ups, non-profits and academic clients. She serves on the Boards of Cancer Research and Biostatistics and Aronora Biopharma and the Advisory Board of Northwest Technology Ventures.

Patricia earned her BA from The Evergreen State College and her PhD from the University of Arizona, College of Medicine. She was a Fulbright Scholar in Sweden, an NRSA Fellow at the National Cancer Institute and a Kauffman Fellow. She has over 50 peer-reviewed scientific publications and over 40 issued U.S. Patents to her credit.

Mary Jane Selgrade, Ph.D.

Expert Consultant ICF International
Durham, NC
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Dr. Mary Jane Selgrade earned her M.S. and Ph.D. in Medical Microbiology from the University of Wisconsin, Madison, after which she spent a year doing research in viral immunology as a National Research Council fellow at the Naval Medical Research Institute in Bethesda, MD and two years as a Public Health Service NRSA postdoctoral fellow at the

Session II – Career Panels

University of North Carolina at Chapel Hill. She was a visiting assistant Professor in the Microbiology Department at North Carolina State University before joining the U.S. EPA as a Research Microbiologist in 1979. During her 32 year career at EPA she gained broad technical and managerial experience in environmental health, toxicology, and risk assessment culminating in her position as Chief of the Cardiopulmonary and Immunotoxicology Branch of the Environmental Public Health Division within the National Health and Environmental Effects Research Laboratory. In addition to supervising a staff of 32 scientists her responsibilities at EPA included developing research strategies to meet particular EPA regulatory needs related to health effects in diverse areas including biotechnology, Libby asbestos (superfund), particulate matter air pollution, air toxics, indoor air, susceptible populations (primarily children), and pesticides. She joined ICF International in August 2010 as a senior toxicologist working in the Environmental Risk and Toxicology line of business. She serves as a consultant for both government and industry clients and has major responsibilities in the development of risk assessment documents. In addition to her current position at ICF, she also does private consulting. She is an adjunct professor in the Curriculum of Toxicology, University of North Carolina, Chapel Hill (and currently is a member of Professional Sciences Masters Advisory Board) and in the Department of Toxicology at North Carolina State University. She recently completed an 8-year term as an associate editor for *Toxicological Sciences*. She has served on the program committee and membership committee of the Society of Toxicology and has held offices in both the Immunotoxicology and Inhalation and Respiratory Specialty sections. Her research interests involve the effects of environmental pollutants on the induction, elicitation, and exacerbation of allergic asthma and other types of allergic diseases. She has published over 100 research papers and book chapters covering an array of topics in toxicology and risk assessment, and has organized workshops on important topics in toxicology for EPA, Society of Toxicology, World Health Organization and others.

Session II – Workshops

Setting Your Career Goal and Charting Your Course

12:40 – 1:40 PM Room C111-A

Presented by Diane Klotz, Ph.D.

In this session, trainees will participate in a combination of lecture and interactive exercises to clearly define their career goals, understand the importance of doing so, and begin to chart a course for achieving that goal that includes identifying necessary skills for success. Participants will leave with tools to clarify their specific career goals and a draft version of a plan to achieve them.

Diane Klotz, Ph.D.

Director

Office of Training and Academic Services
Sanford-Burnham Medical Research Institute
San Diego, CA
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Dr. Diane Klotz is Director of the Office of Training & Academic Services at the Sanford-Burnham Medical Research Institute in San Diego, CA. In this position, Diane oversees scientific career education and training programs for Sanford-Burnham's trainees and scientific staff and provides training-related support to the Institute's PIs and trainees. In addition to her program development role, Diane participates in Institute-wide efforts in strategic planning with respect to education and training initiatives, serves as an advisor to executive leadership on education and training issues, and collaborates with Institute leaders to develop training policies. Diane received her PhD in Molecular and Cellular Biology from Tulane University. As a postdoctoral fellow at the National Institute of Environmental Health Sciences (NIEHS, NIH), Diane's research focused on cross-talk between steroid hormone receptor and growth-factor signaling pathways, primarily in the female reproductive tract. Outside the lab, Diane served as a member and chair of the NIEHS Trainees Assembly Steering Committee, was a member and chair of the National Postdoctoral Association (NPA) policy committee, and she subsequently served as a member and chair of the NPA Board of Directors. She remains active with the NPA as a member of the Advisory Council. Prior to accepting her current position, Diane was the Director of the NIEHS Office of Fellows' Career Development.

Session II – Workshops

New Paradigms and Opportunities for Funding Your Research: Think Beyond the Grant

12:40 – 1:40 PM Room C112

Presented by Alaina Levine

A government grant is nice, but there are plenty of other avenues to find financial support for your research endeavors. We will discuss how to identify and find sources, how to approach different potential investors, and how to create a partnership with these support lines. Learn the essentials of fundraising and securing sponsors for your activities. Discover how to approach internal (university) and external (industrial) sources for in-kind and monetary support, and, very importantly, *why* they should and would support your research endeavors. And of course, the emerging world of crowd funding will also be addressed.

Alaina G. Levine

President

Quantum Success Solutions

Tucson, AZ

Alaina@alainalevine.com

Alaina G. Levine is a Contributor to National Geographic, science writer, science careers consultant, professional speaker and corporate comedian. Her new book on networking strategies for scientists and engineers will be published by Wiley in 2013/14. As President of Quantum Success Solutions, a career consulting enterprise with a focus on advancing the professional development expertise of scientists and engineers, she has been advising emerging and established scientists and engineers about their careers for over a decade, and has consulted with tens of thousands of early- and mid-career scientific and engineering professionals. The author of over 100 articles pertaining to science, science careers and business in such publications as Science, Nature, Smithsonian, Scientific American Online, IEEE Spectrum, New Scientist, and COSMOS, Levine was recently named a Contributor to National Geographic, where she writes and blogs for NatGeo's website. She also pens the Profiles in Versatility career column for the American Physical Society's national publication, APS News.

Previously, she directed the Professional Science Master's (PSM) in applied science and business programs and taught entrepreneurship to science and engineering graduate students at the University of Arizona (UA). She has given over 500 workshops and seminars around the country and in Europe. Levine holds degrees in mathematics and anthropology from the UA, studied abroad at the American University in Cairo as a DoD National Security Education Program/Boren Fellow, and pursued grant-funded research in cosmology and mathematics history. Recently, she was honored with a travel fellowship to cover the 62nd Lindau (Physics) Nobel Laureates Meeting in Lindau, Germany (which she used to cover the meeting for National Geographic and APS News), during which she broke the Higgs news for NatGeo. She also has been honored as a Logan Science Journalism Fellow at the Marine Biological Laboratory at Woods Hole, a Robert Bosch Stiftung Science Journalism Fellow, and an Institutes for Journalism & Natural Resources Fellow. In addition, Levine is an award-winning entrepreneur, and was named Tucson Leader of the Year, an honor previously bestowed upon former US Surgeon General Richard Carmona, and a Tucson 40 Under 40 Leader, an honor also bestowed upon former US Congresswoman Gabrielle Giffords the same year. Read her complete bio at www.alainalevine.com.

Session III – Career Panels

Careers in Public Health Protection and Promotion

1:45 – 2:45 PM Room C114

Moderator: Margaret Adgent, Ph.D.

Are you interested in translating research into action? The public health protection and promotion panel will feature professionals from different sectors (academia, government, and nonprofit) and disciplines (laboratory research, risk assessment, statistics and epidemiology) who investigate exposures and health risks of concern to the public. Panelists will discuss their careers, their work with local, national, and international organizations, and their experiences communicating findings about environmental exposures and health risks to the public and policymakers.

Eva McLanahan, Ph.D.

LCDR, US Public Health Service Toxicologist
EPA, RTP, NC
McLanahan.Eva@epa.gov

LCDR Eva McLanahan holds degrees in both environmental health (BSEH) and toxicology (PhD). She is an Environmental Health Officer with the U.S. Public Health Service and is currently assigned to the U.S. Environmental Protection Agency where she focuses on the application of quantitative methods and models in human health risk assessments. She also has experience in state environmental health and toxicology applications such as landfill, UST, and factory inspections –as well as setting fish consumption guidelines for local bodies of water. With the U.S. Public Health Service, she deployed to assist with public health emergencies related to the Deepwater Horizon oil spill (Venice, LA) and midwestern floods (Paducah, KY).

Emily E. Sickbert-Bennett, Ph.D., MS, CIC

Associate Director
Hospital Epidemiology, UNC
esickber@unch.unc.edu

Emily Sickbert-Bennett is the Associate Director for Hospital Epidemiology at the University of North Carolina Health Care System and a Research Assistant Professor in the Division of Infectious Diseases at the University of North Carolina School of Medicine. She received her Ph.D. in Infectious Disease Epidemiology and M.S. in Environmental Microbiology from the Gillings School of Global Public Health at the University of North Carolina at Chapel

Hill. Previously, she has also served as the Director of the Healthcare-associated Infection Surveillance Program and Public Health Epidemiologist for UNC Health Care System as well as a Disease Investigation Specialist on a regional public health surveillance team.

Heather Stapleton, Ph.D.

Associate Professor
Duke University
stapleto@duke.edu

Dr. Stapleton received her PhD in environmental chemistry from the University of Maryland at College Park in 2003. From 2003-2005 she was a postdoctoral research associate at the National Institute of Standards & Technology in their Analytical Chemistry Division and in September of 2005 she accepted a position as assistant professor in the Nicholas School of the Environment at Duke University. In 2008 she was awarded with an Outstanding New Environmental Scientist Award (ONES) from the National Institute of Environmental Health Sciences for her research grant proposal entitled “Children’s Exposure to Brominated Flame Retardants: Effects on Thyroid Hormone Regulation.” In 2012 she received the award for best science paper of 2011 published in the journal Environmental Science and Technology for her research on the identification of flame retardant chemicals in baby products.

Dr. Stapleton’s research program examines the sources, fate, transport and metabolism of halogenated organic contaminants in the environment. Her current research projects

Session III – Career Panels

focus on human exposure to flame retardant chemicals, particularly in children, and identification of flame retardant chemicals in consumer products. She also has active research programs that examine species-specific differences in the metabolism of flame retardant chemicals and impacts of halogenated contaminants on thyroid hormone regulation. Analytical methods employed in Dr. Stapleton's laboratory include gas chromatography, liquid chromatography and mass spectrometry.

Bill Pan, Dr.P.H.

Assistant Professor
Duke University
William.pan@duke.edu

William Pan, Dr.P.H., Assistant Professor of Global Environmental Health, joined the faculty at Duke in 2011. He holds a joint appointment at the Duke Global Health Institute and the Nicholas School of Environment, and is Adjunct Assistant Professor in the Department of International Health at Johns Hopkins Bloomberg School of Public Health. Pan's training is in biostatistics with additional expertise in remote sensing, spatial analysis, mathematical demography, longitudinal models, and environmental health. He is strongly committed to improving research capacity in low- and middle-income countries to improve evidence-based policy decisions and in 2012, he was recognized with the James E. Grizzle Distinguished Alumni Award from UNC-Chapel Hill for significant contributions to public health and biostatistics. Pan's research focuses on Population, Health, and Environmental interactions, particularly in Latin America where he helps run the Iquitos Tropical Disease Laboratory in collaboration with Johns Hopkins and Tulane Universities. He is currently the PI or co-PI of six studies related to research in the Amazon Basin with inter-related objectives including vector-borne disease transmission, chronic and cardiovascular disease risk, environmental change (viz., land use / land cover, climate change), migration, reproductive health, household vulnerability and livelihoods, and gold mining and heavy metal exposure.

Session III – Career Panels

Drug Development

1:45 – 2:45 PM Room C111-A
Moderator: Maria Shatz, Ph.D.

Drug development is a long and complicated process involving many different stages: from development of a lead compound to market assessment to safety and toxicity studies of the final product. It happens at different venues: research labs in academia, small biotech, big pharma, all the way to postmarketing studies. Biomedical scientists are involved in each step of this process. Our panelists will share their experience in different aspects of drug development.

Emma-Jane Poulton, Ph.D.

Research Investigator
Sanofi
Waltham, MA
emma-jane.poulton@sanofi.com

Emma-Jane Poulton obtained a BS degree in chemistry from the Massachusetts Institute of Technology. From there she went on to the University of Washington, where she completed a PhD in toxicology in the laboratory of Dr. David Eaton. Her dissertation examined the role of sulforaphane as a novel antagonist to the human pregnane and xenobiotic receptor, PXR. She joined Sanofi as a post-doctoral researcher in the predictive and investigative toxicology group studying mechanisms of drug induced liver injury. In October of 2011 she accepted a full time position as a research investigator in that group.

Rajesh Ranganathan, Ph.D.

Director, Office of Translational Research
National Institute for Neurological Disorders and Stroke, NIH
rajesh.ranganathan@nih.gov

Dr. Rajesh Ranganathan is currently the Director of the Office of Translational Research (OTR) at National Institutes for Neurological Disorders and Stroke (NINDS) at the National Institutes of Health (NIH) and has been in this role since Jan. 2012. The OTR currently has five funding programs that aim to provide a breadth of opportunities for academic investigators and small businesses to engage in the spectrum of work, beginning with assay development through to initial test of clinical candidate in human trials. The emerging

priorities of the office are to ensure that therapeutic development is partnered with the development of mechanistic biomarkers to facilitate deeper understanding of the mechanism of action of the therapeutic candidate. Additionally, there will be emphasis going forward on engaging other stakeholders, such as pharma, biotech, venture capital, and patient organizations to ensure that projects in the office's portfolio have been appropriately de-risked to ensure downstream investments, which will accelerate getting the much-needed therapies to patients suffering from neurological disorders.

Previously, Dr. Ranganathan served in the NIH Office of the Director beginning in Nov. 2010 as the Senior Advisor to the NIH Director for Translational Medicine, where he led efforts to assess the translational medicine pipeline across the NIH and helped formulate an NIH-wide strategy which culminated in the formation of the new NIH National Center for Advancing Translational Sciences (NCATS). Prior to that, he spent 7+ years at the Novartis Institutes for BioMedical Research Inc. where he was a Director in the scientific strategy and portfolio management group and also founded and led a Global Office of Scientific Education for the Institutes. Dr. Ranganathan received his Bachelor's Degrees in Biology and Chemistry from Amherst College, performed his doctoral training with Dr. H. Robert Horvitz at MIT in *C. elegans* neurobiology, and his postdoctoral training with Dr. Linda Buck at Harvard Medical School and the Fred. Hutchinson Cancer Research Center in the area of mammalian sensory regulation.

Session III – Career Panels

Patricia Beckmann, Ph.D.

Founder

BioStrategy, LLC.

mpbeckmann@biostrategyllc.com

Dr. Patricia Beckmann's career spans research, operations, law and venture capital. Patricia spent most of her career at Immunex Corporation and Amgen in Research, Administration and Law. She is an inventor of the drug Enbrel (2012 worldwide sales ~\$8B), for which she was awarded National Inventor of the Year in 2000. She was an Investment Specialist for Microsoft Co-founder Paul Allen's Vulcan Capital and a member of the strategy team establishing the endowed Allen Institute for Brain Sciences. She was founding Chief Scientific Officer for Homestead Clinical (now Integrated Diagnostics) at the venture-backed Accelerator in Seattle. Dr. Beckmann was also President of the Oregon Translational Research and Development Institute where she developed an incubator model for bioscience start-ups.

Recently she established BioStrategy, LLC. Her team focuses on strategic planning for start-ups, non-profits and academic clients. She serves on the Boards of Cancer Research and Biostatistics and Aronora Biopharma and the Advisory Board of Northwest Technology Ventures.

Patricia earned her BA from The Evergreen State College and her PhD from the University of Arizona, College of Medicine. She was a Fulbright Scholar in Sweden, an NRSA Fellow at the National Cancer Institute and a Kauffman Fellow. She has over 50 peer-reviewed scientific publications and over 40 issued U.S. Patents to her credit.

Session III – Career Panels

Oh the Places We Go! Biomedical PhDs Outside of Pharma and Biotech

1:45 – 2:45 PM Room C111-C
Moderator: Rachel Goldsmith, Ph.D.

A biomedical Ph.D. is not just for the pharmaceutical or biotech industry any more. In this panel you will explore careers outside of the traditional drug development pipeline. Learn about how a biomedical Ph.D. functions in the agriculture and chemical industries. And what about stepping away from the bench? You will learn about using your Ph.D. as an editor at a journal and as a manager within a larger company. Biomedical Ph.D.s are used in many different industries doing a variety of jobs, so come to this panel and see just how far your degree can go.

Ann Beaulieu, Ph.D.

Director, Regulatory Affairs at AgroFresh
Greater Philadelphia Area
abeaulieu@agrofresh.com

After receiving a Ph.D. in synthetic organic chemistry, Ann began her career in Rohm and Haas' Agriculture business as a Discovery chemist. After many internal transfers, today she is the Global Regulatory Director for a small agricultural subsidiary of Dow AgroSciences as well as the R&D Chemistry Leader. In these dual roles, she is responsible for developing the registration strategies as well as compiling, submitting and managing dossiers through agencies around the world. As R&D leader, she oversees the discovery and formulations chemistry teams, responsible for new product development. In the intervening years, Ann had multiple R&D manager positions of increasing responsibility in different businesses, including adhesives, water purification and agricultural manufacturing. In addition to R&D roles, Ann had two development assignments, one in human resources and one in procurement. After graduate school, Ann expanded her training by attending business programs for technologists at U of Penn Wharton and the Northwestern Kellogg schools of business.

Christal Bowman, Ph.D.

Senior Scientist
Bayer CropScience
Research Triangle Park, NC
Christal.bowman@bayer.com

Christal Bowman is an immunologist and a senior scientist at Bayer CropScience, where she works in the area of human safety related to genetically modified crops and novel proteins. Dr. Bowman is a graduate of the College of William and Mary and holds a Ph.D. in Microbiology and Immunology from Tulane University. She conducted postdoctoral research at the University of North Carolina at Charlotte and the U.S. Environmental Protection Agency in the areas of host defense, immune activation, and food allergy. Following her postdoctoral training, Dr. Bowman served as a staff scientist with EPA's National Center for Environmental Assessment, providing immunotoxicology support for the integrated science assessments used to develop the national ambient air quality standards.

Sarah Taylor, Ph.D.

Director of Editing Operations at American Journal Experts
Raleigh-Durham, NC
sarah.taylor@journalexperts.com

Sarah Taylor is the Director of Editing Operations at American Journal Experts in Durham, NC. In this position, Sarah oversees the ongoing operations related to AJE's scientific editing and formatting services. Her primary focus is on maintaining AJE's high quality and customer service standards by overseeing teams of managing editors and by fostering continuous innovation in the Editing Division. Sarah earned her BS in Biology from Grand Valley State University in 2004 and her PhD in Molecular, Cellular, and Developmental

Session III – Career Panels

Biology from The University of North Carolina at Chapel Hill in 2010. At UNC, she studied vascular morphogenesis during mammalian development and tumorigenesis under Dr. Victoria Bautch. During her time in graduate school, she co-authored several peer-reviewed articles and was awarded the American Heart Association Predoctoral Fellowship and the University of North Carolina Developmental Biology Predoctoral Fellowship.

During Sarah's time at AJE, the company has received several accolades, including the Inc. Hire Power Award and the Alfred P. Sloan Award for Workplace Effectiveness and Flexibility, and AJE was recently added to the Inc. 500|5000 list of fastest growing companies. To learn more about AJE careers, please visit <https://careers.journalexperts.com/> or contact Sarah directly at sarah.taylor@journalexperts.com.

Session III – Workshops

Preparing for the Academic Job Packet

1:45 – 2:45 PM Room C113

Presented by Melanie Sinche, M.A., M.Ed., NCC

If you are going on the academic job market this fall, you know that there is a lot more to the process than writing a CV and cover letter. In this workshop, we will discuss the variety of documents you will need for your application packet, and we'll discuss strategies for an effective academic job search.

Melanie Sinche, M.A., M.Ed., NCC

Director, FAS Office of Postdoctoral Affairs
Harvard University, MS
melanie_sinche@harvard.edu

Melanie Sinche currently serves as Director of the FAS Office of Postdoctoral Affairs in the Faculty of Arts and Sciences at Harvard University. In this role, she serves over 1,000 postdocs across a variety of disciplines, assisting with their career and professional development, and advises university administrators on issues pertaining to postdoctoral scholars. Melanie is also currently serving on a committee for the National Postdoctoral Association to improve data collection on postdoc services across the U.S. Melanie came to Harvard from the National Institutes of Health (NIH) where she served as a Consultant and Career Counselor. In this role, she assisted in the design, planning, and implementation of the first NIH-wide career center for intramural trainees. Her duties included defining services, recruiting staff, developing workshops, creating content for the career center website, and authoring a careers blog for scientists. Prior to this, Melanie served as the Founding Director of the Office of Postdoctoral Services at the University of North Carolina at Chapel Hill. She has also delivered career development presentations and training sessions for universities, government agencies, professional associations, and non-profit organizations across the country. Melanie earned a Bachelor's degree from Colgate University and a Master's degree from the University of Michigan. Melanie completed a second Master's degree in counseling at North Carolina State University and possesses the National Certified Counselor (NCC) credential.

Session III – Workshops

The Interview: What you Need to Do Before, During, and After to get the Job

1:45 – 2:45 PM Room C112

Presented by Alaina Levine

When does the interview begin? Much sooner than you think: it starts from the first point of contact you have with someone from the organization. And when does it end? Only when the offer is extended and accepted. Learn how to convert conversations and networking into interviews and interviews into job offers. Discover what you need to know and do throughout the interview process to demonstrate your value to the institution and land the job. We will discuss common mistakes that job seekers make, and specific ways in which you can give yourself a competitive edge in the interview. Both academic and non-academic interviewing tactics will be addressed.

Alaina G. Levine

President
Quantum Success Solutions
Tucson, AZ
Alaina@alainalevine.com

Alaina G. Levine is a Contributor to National Geographic, science writer, science careers consultant, professional speaker and corporate comedian. Her new book on networking strategies for scientists and engineers will be published by Wiley in 2013/14. As President of Quantum Success Solutions, a career consulting enterprise with a focus on advancing the professional development expertise of scientists and engineers, she has been advising emerging and established scientists and engineers about their careers for over a decade, and has consulted with tens of thousands of early- and mid-career scientific and engineering professionals. The author of over 100 articles pertaining to science, science careers and business in such publications as Science, Nature, Smithsonian, Scientific American Online, IEEE Spectrum, New Scientist, and COSMOS, Levine was recently named a Contributor to National Geographic, where she writes and blogs for NatGeo's website. She also pens the Profiles in Versatility career column for the American Physical Society's national publication, APS News.

Previously, she directed the Professional Science Master's (PSM) in applied science and business programs and taught entrepreneurship to science and engineering graduate students at the University of Arizona (UA). She has given over 500 workshops and seminars around the country and in Europe. Levine holds degrees in mathematics and anthropology from the UA, studied abroad at the American University in Cairo as a DoD National Security Education Program/Boren Fellow, and pursued grant-funded research in cosmology and mathematics history. Recently, she was honored with a travel fellowship to cover the 62nd Lindau (Physics) Nobel Laureates Meeting in Lindau, Germany (which she used to cover the meeting for National Geographic and APS News), during which she broke the Higgs news for NatGeo. She also has been honored as a Logan Science Journalism Fellow at the Marine Biological Laboratory at Woods Hole, a Robert Bosch Stiftung Science Journalism Fellow, and an Institutes for Journalism & Natural Resources Fellow. In addition, Levine is an award-winning entrepreneur, and was named Tucson Leader of the Year, an honor previously bestowed upon former US Surgeon General Richard Carmona, and a Tucson 40 Under 40 Leader, an honor also bestowed upon former US Congresswoman Gabrielle Giffords the same year. Read her complete bio at www.alainalevine.com.

Session IV – Career Panels

Career Transition: From Academia to Industry (and Back Again)

4:00 – 5:00 PM Room C111-A
Moderator: Bethany Hsia, Ph.D.

Many opportunities exist for PhDs in the biotech and pharmaceutical industries. But how does one transition from being a scientist trained in an academic setting, to a job in industry? This panel will focus on ways to prepare yourself for a move from academics to industry. Also, our panel features scientists who have made an even trickier transition – the one from industry back to academic science as successful PIs. This panel will assist you in learning about the skills and preparation that can make these career transitions possible.

Stefan Bekiranov, Ph.D.

Associate Professor of Biochemistry and
Molecular Genetics
University of Virginia
sb3de@virginia.edu

Dr. Bekiranov received his PhD in theoretical condensed matter physics from the University of California at Santa Barbara and went on to do a postdoc in statistical physics at the University of Maryland followed by a postdoc in computational biology at The Rockefeller University. He pioneered the analysis of high-resolution genomic tiling array data (ChIP-chip, RNA-chip, Repli-chip) as a Bioinformatics Staff Scientist at Affymetrix. He is now an Associate Professor at the University of Virginia School of Medicine working in the field of epigenomics.

Donald Cook, Ph.D.

Principal Investigator, Immunogenetics Group
National Institute of Environmental Health
Sciences, NIH
Cookd@niehs.nih.gov

Dr. Cook received his Ph.D. degree in Microbiology and Immunology from McGill University in Montreal, Quebec, Canada and did a postdoctoral fellowship at the University of North Carolina in the laboratory of the Nobel laureate, Oliver Smithies. After directing an embryonic stem cell laboratory at the pharmaceutical company, Schering-Plough, for four years, Dr. Cook accepted a position as assistant professor in the Division of Pulmonary, Allergy and Critical Care Medicine at Duke University. He joined NIEHS in 2005, and formed the Immunogenetics Group within

the Laboratory of Respiratory Biology. He is also an adjunct assistant professor in the Department of Immunology at Duke University. His research is focused on understanding the immunologic mechanisms that lead to allergic asthma.

Gary R. Burleson, Ph.D.

CEO/President
BRT©-Burleson Research Technologies, Inc.
Morrisville, NC
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Dr. Burleson has over 30 years professional experience in academia, clinical microbiology, contract research, government, and the pharmaceutical industry. He is currently and has been since 1996 the President and CEO of BRT-Burleson Research Technologies, Inc., a CRO in the Research Triangle Park area of North Carolina. His background includes academic appointments and affiliations at the University of Notre Dame and North Carolina State University, clinical experience at Milwaukee County General Hospital, contract research organization experience, government regulatory experience at the USEPA, and pharmaceutical experience in drug discovery at Procter & Gamble. His Immunotoxicology career began in 1983 setting up an immunotoxicology laboratory at the US EPA. He is Senior Editor of *Methods in Immunotoxicology*, volumes 1 and 2, a member of the editorial board of the *Journal of Immunotoxicology* and is past president of the Immunotoxicology Discussion Group (IDG) and current Vice President Elect of the Immunotoxicology Specialty Section of the

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SOT. Dr. Burleson has scientific expertise in Immunotoxicology, Tumor Metastasis Immunology, Pulmonary Immunology, Clinical Microbiology, Inflammation, Immunomodulation, Virology, and Computer Disease Modeling.

Session IV – Career Panels

Overseeing Science: Program Administration and Grant Management

4:00 – 5:00 PM Room C114

Moderator: Julie Hall, Ph.D.

How are scientific projects and programs organized? Who coordinates NIH grants and programs? We have all enjoyed scientific programs, and this panel is about the people who develop and run them. The panelists come from academia and government and work at different levels on a variety of programs providing a broad perspective. All of them coordinate and organize scientific information, programs and/or people. Join us to learn more about working in the logistical side of science.

Danielle Carlin, Ph.D., DABT

Program Administrator
Superfund Research Program
Danielle.carlin@nih.gov

Danielle Carlin, Ph.D., D.A.B.T., is a program administrator with the Superfund Research Program (SRP). Her position consists of providing guidance and advice to grantees applying for SRP P42 Center grants, and serving as the lead liaison between SRP trainees and the various training opportunities offered by SRP. She also oversees the xenobiotic metabolism and asbestos grant portfolios (e.g., R01s). Her current research interests include chemical mixtures, combined exposures, metals, asbestos, and xenobiotic metabolism.

Prior to her current position, she was a post-doctoral researcher for four years at the University of North Carolina: two years within the Eshelman School of Pharmacy, Division of Molecular Pharmaceutics, studying aerosolized drugs/vaccines for treatment and prevention of tuberculosis; and two years within the Curriculum in Toxicology conducting her research at the U.S. Environmental Protection Agency, in Research Triangle Park, N.C., where she studied the toxicological effects of exposure to Libby amphibole asbestos in the rat model. Her areas of expertise include cardiopulmonary/reproductive physiology and inhalation toxicology/pharmacology. She received her Ph.D. in 2005 from Kansas State University, College of Veterinary Medicine, Department of Anatomy and Physiology. She also has a B.S. and M.S. in animal science from New Mexico State University.

Michael C. Humble, Ph.D

Program Administrator
NIEHS, NIH
humble@niehs.nih.gov

Mike Humble, Ph.D., is a Program Director in the Cellular, Organs, and Systems Pathobiology Branch, Division of Extramural Research and Training (DERT) at the National Institute of Environmental Health Sciences (NIEHS) in Research Triangle Park, NC. Dr. Humble oversees the extramural Fellowship program, as well as the research portfolios in skin disease, immunotoxicology, and autoimmune disease. Dr. Humble has a BA in Chemistry from St. Olaf College in Northfield, Minnesota, an MS in Chemistry from the University of Minnesota-Twin Cities, and a Ph.D. in Toxicology from the University of North Carolina at Chapel Hill.

Jana Stone, Ph.D.

Scientific Coordinator
Duke University
Jana.stone@duke.edu

Dr. Stone is the Scientific Coordinator for the Duke Center for Systems Biology. In this position, she oversees education and outreach programs, grant preparation, program evaluation, and communications. Before she switched from research to administration, Dr. Stone was a postdoctoral Fellow at the National Institute of Environmental Health Sciences (NIEHS), where her research focused on DNA replication and mutagenesis. While

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there she was a member of the NIEHS Trainees Assembly Steering Committee and the NIEHS Biomedical Career Fair Planning Committee. Dr. Stone earned a B.S. in Microbiology from Indiana University and a Ph.D. in Genetics & Molecular Biology from the University of North Carolina, Chapel Hill.

Thaddeus Schug, Ph. D.

Health Scientist Administrator
NIEHS, NIH
Schugt2@mail.nih.gov

Thaddeus (Thad) Schug, Ph.D., is a program administrator in the Cellular, Organs, and Systems Pathobiology Branch in the extramural division of NIEHS where he is involved with programs in the scientific areas of male and female reproduction, metabolism, the development and disruption of the endocrine systems, and nanotechnology. He also has interest in projects associated with green chemistry. Thad received his doctorate in nutrition and biomedical sciences from Cornell University. His graduate work focused on the relationships between nuclear hormone receptor activation and various forms of cancer. Thad conducted his postdoctoral studies at the National Institutes of Health/National Institute of Environmental Health Sciences (NIH/NIEHS). At NIH, he investigated the sirtuin family of genes, which are involved in the aging process, homeostasis, metabolism, and inflammation.

Session IV – Workshops

Resumes for Non-academic Positions – One Size Does Not Fit All

4:00 – 5:00 PM Room C113

Presented by Pat Phelps, Ph.D.

When it comes to applying for non-academic positions, one size does NOT fit all. In this interactive workshop, participants will learn about how to prepare effective résumés, cover letters, and CVs for different employment sectors. The workshop will lead participants through the transition of a typical postdoctoral CV into other formats, such as an application for USA jobs or a résumé for industry. The workshop will also provide examples of cover letters to accompany each job application. Participants are encouraged to bring their own CV to the workshop to use as an example.

Pat Phelps, Ph.D.

Educational Specialist
Smithsonian National Museum of Natural History
phelpspv@gmail.com

Patricia Phelps has career experience in academia, industry, the nonprofit industry and the federal government. Pat is currently an education specialist at the Smithsonian National Museum of Natural History where she is assisting with the development of a new genomics exhibit.

Prior to joining the Smithsonian, Pat was the Deputy Director at the National Institutes of Health Graduate Partnerships Program where she developed innovative training programs and workshops in translational medicine, health disparities, professional development and career awareness for post baccalaureates, graduate students and postdoctoral scholars.

Prior to joining NIH, Pat was the Founding Director of the University of North Carolina at Chapel Hill's (UNC) School of Medicine Science, Training, and Diversity Office where she directed NIH funded training programs and professional and career development workshops for postdoctoral fellows and graduate students. While at UNC, Pat founded North Carolina DNA Day and was inducted into the Frank Porter Graham Society.

Patricia received her PhD in Physiology at North Carolina State University. Prior to her academic career, Patricia was Senior Director of Global Product Development and Marketing for a biotechnology company. As the Director of a department comprised of 23 scientists and engineers. Patricia gained extensive experience in developing collaborations and implementing strategic plans.

Session IV – Workshops

You Know More Than You Know: Recognizing and Articulating Your Unique Value

4:00 – 5:00 PM Room C111-C

Presented by Alaina Levine

I have a brand and you have a brand. A brand is simply a promise of value and every successful professional and company is successful in part because they know how to articulate their brand. The ability to communicate your promise of value is vitally important for not only crafting your own career path, but also for finding out about hidden opportunities and jobs. In this workshop, we learn the fundamentals of branding as it relates to career development and planning strategy. We will work together to develop your own 30-second brand statement which you can use in networking, and informational and job interviews. We will discuss the connection between brand, attitude and reputation, and why every interaction with someone affects how people perceive your brand. You will leave this workshop with the ability to elucidate your own brand to whomever you meet, giving you a critical competitive edge in your career and the job market.

Alaina G. Levine

President, Quantum Success Solutions
Tucson, AZ
Alaina@alainalevine.com

Alaina G. Levine is a Contributor to National Geographic, science writer, science careers consultant, professional speaker and corporate comedian. Her new book on networking strategies for scientists and engineers will be published by Wiley in 2013/14. As President of Quantum Success Solutions, a career consulting enterprise with a focus on advancing the professional development expertise of scientists and engineers, she has been advising emerging and established scientists and engineers about their careers for over a decade, and has consulted with tens of thousands of early- and mid-career scientific and engineering professionals. The author of over 100 articles pertaining to science, science careers and business in such publications as Science, Nature, Smithsonian, Scientific American Online, IEEE Spectrum, New Scientist, and COSMOS, Levine was recently named a Contributor to National Geographic, where she writes and blogs for NatGeo's website. She also pens the Profiles in Versatility career column for the American Physical Society's national publication, APS News.

Previously, she directed the Professional Science Master's (PSM) in applied science and business programs and taught entrepreneurship to science and engineering graduate students at the University of Arizona (UA). She has given over 500 workshops and seminars around the country and in Europe. Levine holds degrees in mathematics and anthropology from the UA, studied abroad at the American University in Cairo as a DoD National Security Education Program/Boren Fellow, and pursued grant-funded research in cosmology and mathematics history. Recently, she was honored with a travel fellowship to cover the 62nd Lindau (Physics) Nobel Laureates Meeting in Lindau, Germany (which she used to cover the meeting for National Geographic and APS News), during which she broke the Higgs news for NatGeo. She also has been honored as a Logan Science Journalism Fellow at the Marine Biological Laboratory at Woods Hole, a Robert Bosch Stiftung Science Journalism Fellow, and an Institutes for Journalism & Natural Resources Fellow. In addition, Levine is an award-winning entrepreneur, and was named Tucson Leader of the Year, an honor previously bestowed upon former US Surgeon General Richard Carmona, and a Tucson 40 Under 40 Leader, an honor also bestowed upon former US Congresswoman Gabrielle Giffords the same year. Read her complete bio at www.alainalevine.com.

Exhibitors



Aerotek Scientific® LLC, a subsidiary of Aerotek Inc, has scientific and clinical job opportunities in laboratories, universities, medical offices, hospitals and pharmacy environments. Working with nearly 9,000 unique companies, Aerotek Scientific provides immediate access to positions you might have missed by browsing for a job on your own. And we work with many leading organizations to perform all of their hiring, giving you an entry into Fortune 1000 companies. Most importantly, Aerotek Scientific's job opportunities are completely free.



The Duke Global Health Institute, established in 2006, brings knowledge from every corner of Duke University to bear on the most important global health issues of our time. DGHI was established as a University-wide institute to coordinate, support, and implement Duke's interdisciplinary research, education, and service activities related to global health. DGHI is committed to developing and employing new models of education and research that engage international partners and find innovative solutions to global health challenges.

DGHI works to reduce health disparities in our local community and worldwide. Recognizing that many global health problems stem from economic, social, environmental, political, and health care inequalities, DGHI brings together interdisciplinary teams to solve complex health problems and to train the next generation of global health leaders.

Research priorities: Cardiovascular Disease and Obesity; Emerging Infectious Diseases; Global Cancer; Global Environmental Health; Global Mental Health; Health Systems Strengthening; Maternal and Child Health

Education programs offered: Global Health Major and Minor; Student Research Training Program; Master of Science in Global Health; Doctoral Certificate; Third Year Global Health Study Program; Doris Duke Clinical Research Fellowship; Residency/Fellowship Pathway; Postdoctoral Fellowship; Human Resources for Health Program – Rwanda; Duke-Peking University Global Health Diploma

Contact: globalhealth@duke.edu; phone 919-681-7760; fax 919-681-7748; globalhealth.duke.edu

Exhibitors



AAAS Science & Technology Policy Fellowships

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

One-year fellowships that seek to foster scientifically informed, evidence-based policy and practice by engaging scientists and engineers from a broad range of disciplines and career stages. A doctoral level degree (or MS in engineering) is required.



American Journal Experts (AJE) has helped thousands of international researchers to eliminate language barriers and get their work published in the best journals in the world. We provide editing, translation, formatting and other associated services to help researchers throughout the publication process, leveraging our own academic experience and English language proficiency. Our team is highly credentialed, experienced and educated, yet also embraces a strong sense of fun. AJE's work environment is casual and collegiate, and the hours are uniquely flexible.

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Exhibitors



NLTO stands for the Networking and Leadership Training Organization. Our organization provides information on professional advancement and opportunities for career development for all pre- and post-doctoral trainees working at EPA in Research Triangle Park. In particular, our Brown Bag Seminar Series focuses on issues in science and career development that are of interest to young investigators.

Trainees include postdoctoral fellows, graduate students, guest scientists in training, interns, and undergraduate volunteers working at the EPA in RTP and UNC-Chapel Hill (Human Studies Division). All

trainees are encouraged to join! Contact our current president, Nicole Hagan (hagan.nicole@epa.gov), or our current vice president, Nisha Sipes (sipes.nisha@epa.gov), for more information. Also view our archive of NLTO Newsletters and library of career development resources available on the website at <http://epa.gov/nheerl/nlto/>.



Exhibitors



Graduate Women in Science (GWIS) Rho Tau chapter gives its members a route to diversify their scientific life and become a part of the larger scientific Triangle community. Our members hail from academia, government, and biotech/clinical for-profit companies. Nationally, our mission is to advance the participation and recognition of women in science and to foster research through grants, awards, and fellowships. Locally, we are eager to foster networking/professional development, provide educational outreach opportunities, and support those preparing GWIS fellowship applications. We recognize the value of strengthening one another in every challenge that scientists face today. Accept our invitation to join GWIS today! See our website for examples of past events, as well as upcoming events. Contact Info: rhotaugwis@gmail.com



Burleson Research Technologies, Inc. (BRT) is a Contract Research Organization (CRO) in the Research Triangle Park area that provides services to clients from the biotechnology, pharmaceutical, chemical manufacturing, and health care industries with proof-of-concept, pre-clinical, clinical, and toxicology studies that reflect BRT staff expertise. BRT clients span the globe, representing companies throughout the United States and overseas including France, the U.K., Switzerland, Italy, Germany, Russia, Israel, New Zealand, Australia, Korea and Japan. BRT provides flexibility in tailoring studies to best suit clients' individual requirements with accurate, confidential, and timely results utilizing quality assurance programs that guarantee adherence to these principles and GLP regulations.

Exhibitors



National Institute of
Environmental Health Sciences
Trainees Assembly

NIEHS Trainees Assembly (NTA)
National Institute of Environmental Health Sciences
111 T.W. Alexander Drive
Research Triangle Park, North Carolina 27709
www.niehs.nih.gov/careers/research/nta

The NIEHS Trainees Assembly (NTA) is an organization started by fellows and graduate students at the NIEHS in order to foster the professional development of NIEHS trainees. The NTA is comprised of all non-tenured, non-permanent scientists training at the Institute. Due to the diversity of scientists in training at the NIEHS and the broad range of training needs, the NTA organizes and sponsors a variety of activities.

NTA Mission:

1. To cultivate an atmosphere of intercommunication among members.
2. To assist in the orientation of new domestic and international fellows.
3. To organize educational activities both independently and in collaboration with the Office of Fellows' Career Development (OFCD).
4. To inform trainees about opportunities in both bench and non-bench career paths.
5. To promote open communication between trainees and the NIEHS administration by serving as the official liaison.
6. To create opportunities for fellows to receive guidance and mentoring tailored to their career goals by working with the NIEHS administration and OFCD.

NTA Steering Committee

The NTA Steering Committee is made up of fellows and graduate students who volunteer to address the needs of trainees and help organize and lead activities for trainees including: The Annual Career Fair, Science Day (Mentor of the Year), Monthly Career Workshops, Training, Brown Bag Lunches, and Social Events. In addition, NTA Steering Committee members serve on a variety of committees including: the DIR Council, the Assembly of Scientists, the NIH FELCOM, and the OSED Advisory Committee. Participation in the NTA Steering Committee and in subcommittees provides excellent leadership training and networking opportunities. We meet every third Wednesday of the month. Please contact the NTA at jukica@niehs.nih.gov and rachel.goldsmith@niehs.nih.gov to give us your input and to find out how you can get involved.

Exhibitors



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Social & Scientific Systems, Inc. (SSS) is an employee-owned professional services company with offices in Silver Spring, MD; Rockville, MD; Durham, NC; Kigali, Rwanda; Kampala, Uganda; and Jakarta, Indonesia. Our mission is to improve public health worldwide by providing technical, research, and program management services to government and other clients. This support enables policymakers, medical professionals, communities, and citizens to improve public health knowledge and to mitigate the effects of devastating diseases, such as HIV/AIDS.

We achieve our mission through significant contributions to public health research, international health programs, and health information dissemination. Whether we are supporting HIV/AIDS clinical trials around the world, providing program monitoring and evaluation services in Africa, collecting epidemiologic data in Europe, coordinating AIDS conferences in the Caribbean and Africa, or analyzing Medicare data in the United States, we consistently provide the highest quality support available. We are committed to conducting ourselves ethically, honoring our commitments, acting proactively and responsively, and delivering excellent services—on time and at good value.

For more information visit our webpage at <http://www.s-3.com> or you can email us at careers@s-3.com.



Bayer CropScience

Exhibitors



The National Health and Environmental Effects Research Laboratory (NHEERL) is the U.S. Environmental Protection Agency's focal point for scientific research on the effects of contaminants and environmental stressors on human health and ecosystem integrity. Headquartered in Research Triangle Park, NC, NHEERL is geographically dispersed with research facilities in Chapel Hill, NC; Gulf Breeze, FL; Narragansett, RI; Duluth, MN; and Corvallis, OR. Its research mission and efforts toward its goals help the Agency to identify and understand the processes that affect our health and environment and help the Agency to evaluate the risks that pollution poses to humans and ecosystems.

NHEERL's intramural program consists of toxicological, clinical, epidemiological, ecological, and biogeographic research studies. Scientists define and characterize toxicological hazards, quantify dose response and other important cause-effect relationships, and assess the integrity and sustainability of ecosystems. The laboratory has highly specialized facilities, including high-hazard chemical containment facilities, state-of-the-art inhalation exposure chambers for use in human studies, and programmable growth chambers for terrestrial plant studies.

In addition to its intramural research, NHEERL fosters cooperative research projects with academic and other scientific institutions to complement NHEERL efforts, as well as to insure that the Agency has the benefit of the highest quality peer-reviewed science. NHEERL scientists use collaborative mechanisms to draw on the expertise of preeminent researchers in academia, industry, and other government organizations through cooperative agreements, contracts, and interagency agreements.

For additional information, please visit www.epa.gov/nheerl.

The National Exposure Research Laboratory (NERL) provides leadership in exposure science for the U.S. Environmental Protection Agency. EPA's exposure science leads to improved methods, measurements and models to assess and predict exposures of humans and ecosystems to harmful environmental stressors. Exposure science also provides the foundation for the development of approaches to reduce these exposures, and safeguard human health and the environment.

The goals of NERL are to conduct relevant and responsive research to:

- Develop the knowledge and tools necessary to assess potential exposures and risks to emerging environmental threats, and
- Mitigate exposures to known contaminants and environmental stressors.

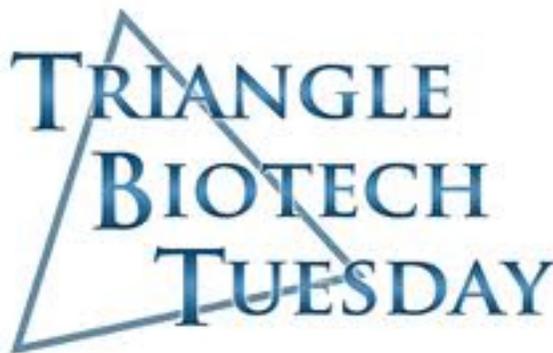
Understanding exposures and approaches for reducing exposures is critical in making informed decisions to protect public health and the environment. NERL's multidisciplinary expertise enables the laboratory to bring cutting-edge research and technology to the field of exposure science to understand the world we live in and how humans and other organisms interact with that world.

NERL is involved in the following research areas:

- Atmospheric sciences, modeling and analysis;
- Ecological exposures, modeling and analysis;
- Community level decision support tool development;
- Human exposures, modeling and analysis; and
- Microbiological and chemical analytical methods and exposure evaluation in water.

For additional information, please visit www.epa.gov/nerl

Exhibitors



“This is an exciting time of growth and change for public health in North Carolina. While change is not always easy, it also brings the opportunity to move in a positive direction, positioning ourselves to respond to health care reform and continued challenges in our economy while continuing to do the important work of improving and protecting the health of the people of our state. We have set ambitious goals for improving overall health through the Healthy North Carolina 2020 objectives. If we are to accomplish those goals, we must close the gap in health outcomes for our most vulnerable citizens. We must work to change environments and policies to make it easier for people to make healthy choices. And we must continue to work collaboratively with state and community partners to ensure access to care for all people and focus on the most pressing health problems in our state, especially those that are preventable.” - Laura Gerald, M.D., M.P.H., State Health Director

Our organization is made up of: Administrative, Local and Community Support; Chronic Disease and Injury Prevention; Environmental Health; Epidemiology; Minority Health and Health Disparities; Oral Health; State Center for Health Statistics; State Laboratory for Public Health; Vital Records; and Women’s and Children’s Health.

Contact Information: Shanda Snead, Recruitment Coordinator, 919-707-5455, shanda.snead@dhhs.nc.gov

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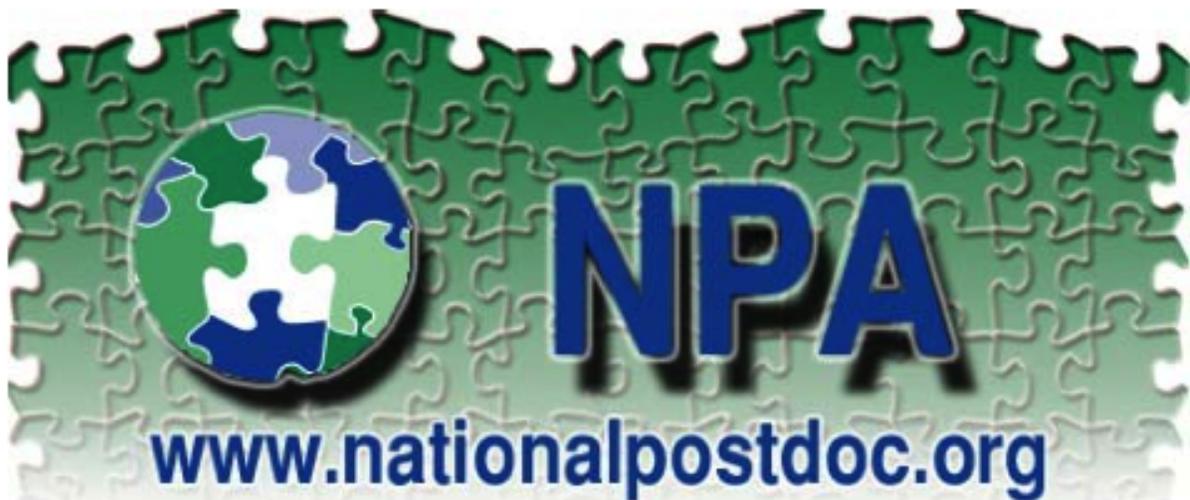


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Providing a national voice and seeking positive change for postdocs

The NPA is a national professional association working to represent the interests of postdoctoral scholars through advocacy, resource development, and community-building. We welcome the involvement of postdocs, graduate students, faculty, administrators, and others working to enhance the postdoctoral training experience.

Join the NPA today: an investment in your future.



Free membership available to postdocs and graduate students affiliated with NIEHS, UNC Chapel Hill, Duke University, NC State and other NPA sustaining member institutions. Visit the NPA website for further details and to complete your membership application.

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Today's Career Fair is organized entirely by postdoctoral fellows at the NIEHS and EPA who volunteer their time and efforts. All of the food and beverages provided today were bought with funds donated by the NIEHS and EPA postdoctoral community. This event would not be possible without the support and sponsorship of the organizations and companies acknowledged in this program. We also very much appreciate and depend on the good will and support of many people working behind the scenes including the following:

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KBI Biopharma Inc
1101 Hamlin Rd, Durham, NC 27704
<http://www.kbibioharma.com/>
For job enquiries please contact Val Paxton,
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Career Resource List

The following list of resources was initially compiled by the 2011 NIH Career Symposium Fellows Committee, OITE/NIH. These are provided for your reference, and do not imply endorsement by the OITE or the NIH. Additionally, this is only a partial representation of the wealth of information available to you in print and online.

NIH Office of Intramural Training & Education (OITE)

NIH IC Training Offices

Prior OITE Workshop Videos

NIH Links: Scientific Interest Groups

www.training.nih.gov/

www.nih.gov/icd/index.html

www.training.nih.gov/oite_videocasts

www.nih.gov/sigs/sigs.html

NORTH CAROLINA RESOURCES

NC Biotechnology Center

Sigma Xi

Triangle Jobs

The Research Triangle Park (Includes RTP company Directory)

Women in Bio – RTP chapter

NIEHS Fellows and Trainees LinkedIn Group

NIEHS Trainees' Assembly

NIEHS Office of Fellows' Career Development

www.ncbiotech.org/

www.sigmaxi.org/

www.trianglejobs.com/

www.rtp.org/

www.womeninbio.org/chapter-rtp.shtml

www.linkedin.com/groups?gid=2748694&trk=hb_side_g

junction.niehs.nih.gov/divisions/dir/career/nta/index.cfm

junction.niehs.nih.gov/divisions/dir/career/fellow/index.htm

GENERAL CAREER LINKS

BioSpace

BioCareers

The National Postdoctoral Association

Science Careers

Nature Jobs

LinkedIn

myIDP (Individual Development Plan)

NIH Intramural Group on LinkedIn

www.biospace.com

www.biocareers.com

www.nationalpostdoc.org/

sciencecareers.sciencemag.org/

www.nature.com/naturejobs/index.html

www.linkedin.com/

myIDP.sciencecareers.org

www.linkedin.com/groups?mostPopular=&gid=1404617

BOOKS AND OTHER RESOURCES

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

Career Resource List

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

Getting to Yes: Negotiating agreement without giving in by Roger Fisher and William Ury

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

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

Career Development for Chemists Book List: www.balbes.com/Careers/books.htm

ONLINE RESOURCES

Howard Hughes Medical Institute:

Online Resources for Scientists

Science Careers Booklets

Naturejobs: Career Toolkit

Science Careers Blog: Seeking the

Alternative by Kate Travis

myIDP (Individual Development Plan)

www.hhmi.org/resources/scientists.html

sciencecareers.sciencemag.org/tools_tips/outreach/booklets

www.nature.com/naturejobs/career-toolkit/

blogs.sciencemag.org/sciencecareers/2010/09/alternative-careers.html

myIDP.sciencecareers.org

SALARY INFORMATION

Naturejobs: Salaries

Glassdoor.com

Mysalary.com: Browse Average Salary

Ranges for Pharmaceutical Jobs

U.S. Office of Personnel Management:

Salaries & Wages

TheScientist: Life Sciences Salary Survey, 2012

PayScale Blogs: Salary Calculator

The Chronicle of Higher Education:

AAUP Faculty Salary Survey

www.nature.com/naturejobs/career-toolkit/salaries/

www.glassdoor.com/Salaries/index.htm

www1.salary.com/Pharmaceuticals-Salaries.html

www.opm.gov/policy-data-oversight/pay-leave/salaries-wages/#url=2013

www.thescientist.com/?articles.view/articleNo/32918/title/Life-Sciences-Salary-Survey-2012/

www.payscale.com/wizards/choose.aspx?src=pc_ct_2013cbpr_mang

chronicle.com/stats/aaup/

ADDITIONAL TRAINING AND CERTIFICATE PROGRAMS

Foundation for Advancing Education in the Sciences

Grant Management Training for Nonprofit Applicants and Recipients

Grant Writing and Grants Management Training Workshops & Seminars

Science Communication Program at the University of California, Santa Cruz

The Science, Health and Environmental Reporting Program (SHERP) at NYU

DABT (Diplomate of the American Board of Toxicology)

RAC (Regulatory Affairs Certification)

faes.org/

www.epa.gov/ogd/training/

grantwritingusa.com/

scicom.ucsc.edu/SciWriting.html

journalism.nyu.edu/graduate/courses-of-study/science-health-and-environmental-reporting

www.abtox.org

www.raps.org/rac.aspx

Career Resource List

FELLOWSHIP OPPORTUNITIES

NC Biotechnology Center Industrial Fellowships

www.ncbiotech.org/business-commercialization/business-loans-support/industrial-fellowships

FDA: Commissioner's Fellowship Program

www.fda.gov/AboutFDA/WorkingatFDA/FellowshipInternshipGraduateFacultyPrograms/CommissionersFellowshipProgram/default.htm
fellowships.aaas.org/

AAAS Science & Technology Policy Fellowships

AAAS Mass Media Science and Engineering Fellows Program

www.aaas.org/programs/education/MassMedia/

AAAS Policy Fellowship Resource Page

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

Presidential Management Fellows Program

www.pmf.opm.gov/

NIH Intern and Fellow Programs

trainingcenter.nih.gov/intern/

Christine Mirzayan Science & Technology Policy Graduate Fellowship Program

sites.nationalacademies.org/PGA/policyfellows/index.htm

Teach for America: Help Ensure Educational Opportunity for All

www.teachforamerica.org/

Institutional Research and Academic Career Development Awards (IRACDA)

www.nigms.nih.gov/Training/CareerDev/TWDInstRes.htm

FEDERAL GOVERNMENT JOBS

USAJOBS

www.usajobs.gov

US Patent and Trademark Office

www.uspto.gov/

Scientists of the US Public Health Service

usphs-scientist.org/

Working at FDA

www.fda.gov/AboutFDA/WorkingatFDA/

National Science Foundation

www.nsf.gov/about/career_opps/

Opportunities at CDC

www.cdc.gov/about/opportunities.htm

NIH jobs

jobs.nih.gov

NIH Office of Science Policy

osp.od.nih.gov/

NIH Center for Scientific Review

cms.csr.nih.gov/

NIH Office of Technology Transfer

www.ott.nih.gov/

Opportunities at the NIH for

www.jobs.nih.gov/jobsearch/noncitizen.htm

Non-U.S. Citizens

Below are websites containing job listings and other resources for specific careers. To read articles related to these various careers visit: sciencecareers.sciencemag.org/career_magazine/career-profiles

CAREERS IN NON-PROFITS

American Public Health Association: Advocacy and Policy

www.apha.org/advocacy/activities/

Association of Fundraising Professionals

www.afpnet.org/

National Grants Management Association

www.ngma.org/

Grants Management Training and Resources

e-grants.ed.gov/training/

Idealist: Jobs in Nonprofits

www.idealists.org/

Career Resource List

COMMUNICATION OF SCIENCE

AAAS Communicating Science: Tools for Scientists and Engineers

communicatingscience.aaas.org/Pages/newmain.aspx

[The American Medical Writer's Association](http://www.amwa.org)

www.amwa.org

The National Association of Science Writers

www.nasw.org

[Council of Science Editors](http://www.councilscienceeditors.org)

www.councilscienceeditors.org

Council for the Advancement of Science Writing

casw.org/casw/guide-careers-science-writing#E

[The World Federation of Science Journalists](http://www.wfsj.org/resources/)

www.wfsj.org/resources/

The Science Communication Network

www.sciencecommunicationnetwork.org/

[The Health and Science Communications Association](http://www.hesca.org/)

www.hesca.org/

Science Media Group

www.cfa.harvard.edu/smg/

[New Science Journalism Project](http://www.newsciencejournalism.net/)

www.newsciencejournalism.net/

The Public Library of Science (PLOS)

blogs.plos.org/blogosphere/

Blogs Network

ACADEMIC POSITIONS

NIH Office of Extramural Research: Grant Application Basics

grants.nih.gov/grants/grant_basics.htm

[Science Careers: GrantsNet](http://sciencecareers.sciencemag.org/funding)

sciencecareers.sciencemag.org/funding

Career Guide for Scientists: Getting Tenure

www.phds.org/career-guide/getting-tenure/

[Academic Careers Online](http://www.academiccareers.com/)

www.academiccareers.com/

HigherEdJobs

www.higheredjobs.com/

[Academic Employment Network](http://www.academploy.com/)

www.academploy.com/

Transitions Abroad

www.transitionsabroad.com/

[Carnegie Foundation for the Advancement of Teaching](http://www.carnegiefoundation.org/)

www.carnegiefoundation.org/

Academic360: Academic Job Hunting Resources

www.academic360.com/

[Academic Careers Online: Listings for Teaching, Education, Research and Professional Jobs](http://www.academiccareers.com/)

www.academiccareers.com/

Academic Keys: Listings for Academic Jobs

academickeys.com/

[The Chronicle of Higher Education: Information and Jobs for Faculty and Administrators](http://chronicle.com/section/Home/5)

chronicle.com/section/Home/5

Academic Employment Network: Primary, Secondary, and University Jobs and Resources

www.academploy.com/

NON-TENURE TRACK ACADEMICS AND GOVERNMENT

"Negotiating the Non-Tenure Track" Tenure-/ by Cathy Trower

chronicle.com/article/Negotiating-the-Non-45495

[NIH Staff Scientists/Staff Clinicians Org. Non-Tenure Track Jobs](http://sigs.nih.gov/NIH_SSSC/Pages/default.aspx)

sigs.nih.gov/NIH_SSSC/Pages/default.aspx
jobs.phds.org/non-tenure-track

[Adjunct Nation: Resources and Jobs for Temporary Faculty](http://www.adjunctadvocate.com)

www.adjunctadvocate.com

The Association of Biomedical Resource Facilities

www.abrf.org

[PhDs.org Non-Tenure Track jobs](http://jobs.Ph.D.s.org/non-tenure-track)

jobs.Ph.D.s.org/non-tenure-track

Career Resource List

CAREERS IN TEACHING AND PUBLIC OUTREACH

“A Career at the Museum” by Ricki Lewis

www.nature.com/naturejobs/2008/080110/full/nj7175-218a.html

Careers in Science Education and Outreach

oitecareersblog.wordpress.com/2010/11/30/careers-in-science-education-and-outreach/

National Association of Biology Teachers

www.nabt.org

NAFSA: Association of International Educators

www.nafsa.org/index.aspx

Great Teacher

www.greatteacher.net

NIH Office of Science Education

science.education.nih.gov/home2.nsf/feature/index.htm

National Science Teachers Association (NSTA)

www.nsta.org/

NASA Science: Education and Public Outreach

science.nasa.gov/researchers/education-publicoutreach/

European Southern Observatory Science Outreach Network

www.eso.org/public/outreach/eson/

AAAS Public Outreach Overview

communicatingscience.aaas.org/PublicOutreach/Pages/default.aspx

Great Teacher: Resources and Information for the Education Field

www.greatteacher.net/

NIH Office of Science Education

science.education.nih.gov/home2.nsf/feature/index.html

National Education Association (NEA)

www.nea.org/

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

www.science-policy.net/

U.S. Office of Science and Technology Policy

www.ostp.gov/

US House of Representatives Committee on Science and Technology

science.house.gov/

Science and Development Network

www.scidev.net/en/

Research!America

www.researchamerica.org/

Institute on Science for Global Policy

www.scienceforglobalpolicy.org

AAAS Federal R&D Budget: Science and Policy Programs

www.aaas.org/spp/rd/

FASEB Science Policy Resources and Links

www.faseb.org/Policy-and-GovernmentAffairs/Advocacy-on-Capitol-Hill/Explore-Resources/Science-Policy-Resources-and-Links.aspx

INDUSTRY – GENERAL

NC Biotech Companies

ncbcjobs.ncbiotech.org/

Biotechnology Industry Organization

www.bio.org

Fierce Biotech

www.fiercebiotech.com/

Signals

www.signalsmag.com

Career Resource List

INDUSTRY CAREERS AT THE BENCH

“Tips on How Academic Scientists Can Make the Career Switch to Industry” by Don Rule

www.xconomy.com/seattle/2010/02/25/tips-on-how-academic-scientists-can-make-the-career-switch-to-industry/

“What to Expect During a Structured Interview for a Research Scientist Position”

www.biospace.com/news_story.aspx?NewsEntityId=152376

BioCareers.com article: “Getting Started with Biopharma Research” by Christine Traxler
BioCareers BioPharma Research

biocareers.com/resource/getting-started-biopharma-research
biocareers.com/articles/biopharma-research

CAREERS AWAY FROM THE BENCH

Careers Away from the Bench

images.sciencecareers.org/pdf/tools_tips/outreach/careers-away-from-the-bench.pdf

PhDs.org: Business Schools for Scientists

www.phds.org/jobs/nonacademic-careers/business-school-for-scientists/

“MBA Programs Expand Career Prospects for Cross-Trained Scientists” by Robert Finn

ccrma.stanford.edu/~ujung/guide/mba.html

PROGRAM MANAGEMENT

Project Management International
Project Management/Pharma-Biotech

www.pmi.org
www.pharmasig.org/

CONTRACT RESEARCH ORGANIZATIONS (CROs)

Contract Pharma Magazine
Charles River (CRO)
Covance (CRO)
Quintiles

www.contractpharma.com/
www.criver.com/en-US/Pages/home.aspx
www.covance.com/pharma/index.php
www.quintiles.com/

INTELLECTUAL PROPERTY

NIH Office of Technology Transfer Resources
Knowledge Management Professional Society (KmPro)

ott.od.nih.gov/training/training.aspx
www.kmpro.org/

NCI Technology Transfer Center
Employment Opportunities
Association of University Technology Managers

ttc.nci.nih.gov/employment/

Emory Office of Technology Transfer
National Tech Transfer Center
Licensing Executives Society
US Public Health Service Scientist Professional Advisory Committee

www.ott.emory.edu/
www.nttc.edu/
www.lesusacanada.org/
usphs-scientist.org/

CONSULTING, VENTURE CAPITAL AND ENTREPRENEURSHIP

“Case in Point: Complete Case Interview Preparation”
Booz Allen Hamilton: A Strategy and Technology Consulting Firm

Book by Marc P. Cosantino
www.boozallen.com

Career Resource List

Accenture

McKinsey and Company

The Boston Consulting Group

Sg2 Healthcare Solutions

Capgemini

The 411 on Startups

My Corporation.com

Intuit Community Service

The Angel Capital Education Foundation

Harvard Business School Entrepreneurship

Free Management Library

Businessplans.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

www.accenture.com

www.apd.mckinsey.com

www.bcg.com/

www.sg2.com

www.capgemini.com

[www.thestartup411.com/AngelFinancing/
category/Finding-Angels](http://www.thestartup411.com/AngelFinancing/category/Finding-Angels)

www.mycorporation.com/

community.intuit.com/

www.angelcapitaleducation.org/about-acef/

www.hbs.edu/entrepreneurship/

www.managementhelp.org/

www.bplans.com/

www.sbir.gov/about/index.htm

Funding Sources List

Provided is a list of various funding agencies that provide grants and/or fellowships for postdoctoral fellows. Please note that this is not an extensive list.

**Grantsnet - a searchable database
(courtesy of HHMI and AAAS)**

sciencecareers.sciencemag.org/funding

NIH Office of Extramural Research

grants.nih.gov/grants/oer.htm

**American Association for Cancer
Research**

www.aacr.org/home/scientists/aacr-researchfunding/current-funding-opportunities-for-postdoctoral-or-clinical-research-fellows.aspx

American Brain Tumor Association

www.abta.org/advancing-research/research-grants/

American Diabetes Association

www.diabetes.org/news-research/research/

American Lung Association

www.lung.org/finding-cures/our-research/awards-and-grants/

American Skin Association

www.americanskin.org/research/seekers.php

Burroughs Wellcome Fund

www.bwfund.org

**Damon Runyon-Walter Winchell
Foundation**

www.damonrunyon.org/for_scientists/categories/category/awards/

Dystonia Medical Research Foundation

www.dystonia-foundation.org/pages/funding_opportunities/142.php

**Graduate Women in Sciences
Fellowship**

www.gwis.org/programs.html

Helen Hay Whitney Foundation

www.hhwf.org/HTMLSrc/ResearchFellowships.html

Jane Coffin Childs Memorial Fund

www.jccfund.org/fellowship-information

Life Sciences Research Foundation

www.lsrp.org/pages/welcome.htm

L'oreal fellowship

www.aaas.org/programs/education/loreal.shtml

National Fragile X Foundation

www.fragilex.org/research/funding-opportunities/