ISMMS 5th Annual Postdoc Symposium

SCIENCE POLICY

~ September 26th, 2014 ~
Please See the Final Pages of the Program For:

✦ A list of useful resources for postdocs
✦ Exciting upcoming events for postdocs
✦ Raffle prizes - tickets given out before workshops and the data blitz; winners drawn before the keynote talk
✦ A list of our guests at the networking reception tonight - many interesting companies will be represented
Your Postdoc Executive Committee

Eric Sweet                    Co-Chair
Kamila Sip                    Co-Chair
Nicole McKnight
Merina Varghese
Kate Seip-Cammack
Hannah Schreier
Mustafa Siddiq
Audrey Au
Nebosja Kezunovic
Abigale Lade
Alison Sanders
Ricky Joshi
Jesica Levingston Macleod
Michael Oropallo
Giovanna Collu
Mirela Matokanovic
Astrid Stoker
Ryan Cummings
Katie Nolan
Program at a Glance

The first half of the program is open to Mount Sinai postdocs only

9:00 - 10:00 Registration and Breakfast
Hatch Auditorium Reception Area

10:00 - 10:05 Welcome and Workshop Introduction
Hatch Auditorium

10:05 - 10:30 Talk: Robin Chemers Neustein Award Winner
Sonja Schmid, ISMMS
Hatch Auditorium

10:30 - 12:00 Concurrent Workshops
Workshop 1: Communicating with Policymakers
Workshop 2: Careers in Science Policy
Multiple locations; see detailed program

12:00 - 1:00 Lunch
Annenberg West Lobby

1:00 - 2:30 Concurrent Workshops
Workshop 3: Communicating with Scientists
Workshop 4: Fellowships in Science Policy
Multiple locations; see detailed program
The afternoon program is open to all Mount Sinai employees, New York area postdocs and invited guests.

2:30 - 3:30  Postdoc Data Blitz  
*Hatch Auditorium*

3:30 - 4:00  Coffee Break  
*Hatch Auditorium Reception Area*

4:00 - 4:15  Introduction to Keynote Talk & Raffle Draw  
*Hatch Auditorium*

4:15 - 5:15  Keynote Talk: Dr. Bruce Alberts, UCSF  
The Future of Biology: Keeping Science Healthy  
*Hatch Auditorium*

5:15 - 7:15  Networking Reception  
*Annenberg West Lobby*
What drives us to investigate our chosen scientific discipline? What mechanisms provide funding to pay for us and our supplies? What restrictions are put on research? The answer to these and many other questions lies in a mixture of scientific curiosity and science policy. ‘Science Policy’ refers to the guidelines, regulations, methods, and practices that guide the way science is performed. The policies that regulate how science is done are integral to our daily professional lives.

As postdocs, we engage in science on a practical level every day but we often neglect to think about the larger context in which we work. Decisions in policy making can substantially hinder the progress of science or, conversely, help us achieve things we didn’t think possible. To develop into effective leaders in our fields, we need to be aware of the impact science policy has not only on how we perform science but also on how we can shape the best policy to ensure the continuing process of scientific discovery.

Getting involved in policy can take the form of working with a politician to pass a law, starting an initiative to get kids interested in science, promoting diversity in hiring practices, or deciding how much money individual areas of research receive. The postdoc committee has put together a great program of talks and workshops to help you learn about science policy and how you can get involved.

Welcome and enjoy the day!

The Postdoc Executive Committee
Detailed Program

9:00 - 10:00am  Registration & Breakfast  
_Hatch Auditorium Reception Area_

10:00 - 10:05am  Welcome & Workshop Introduction  
_Hatch Auditorium_

**Eric Sweet**, PhD and **Kamila Sip**, PhD  
Chairs of the Postdoctoral Executive Committee

10:05 - 10:30am  Talk: Robin Chemers Neustein Award Winner  
_Hatch Auditorium_

**Sonja Schmid**, PhD, ISMMS

“Drosha as an interferon-independent antiviral factor”

Utilization of antiviral small interfering RNAs is thought to be largely restricted to plants, nematodes, and arthropods. To determine if a physiological interplay exists between the host small RNA machinery and the cellular response to virus infection in mammals, we evaluated antiviral activity in the presence and absence of Dicer or Drosha, the RNase III nucleases responsible for generating small RNAs. Although loss of Dicer did not compromise the cellular response to virus infection, Drosha deletion resulted in a significant increase in virus levels. We demonstrate that diverse RNA viruses trigger exportin 1 (XPO1/CRM1)-dependent Drosha translocation into the cytoplasm independent of de novo protein synthesis or the canonical type I IFN system. Additionally, increased virus infection in the absence of Drosha was not due to a loss of viral small RNAs but, instead, correlated with cleavage of viral genomic RNA and modulation of the host transcriptome. Taken together, we propose that Drosha represents a unique and conserved arm of the cellular defenses used to combat virus infection.
Concurrent Workshops

10:30 - 12:00pm  Workshop 1: Communicating with Policymakers  
Location: TBA

Workshop led by: **Megan Anderson Brooks, PhD** - Former Policy and Advocacy Fellow for the Society for Neuroscience

Summary: This interactive workshop will take you through tips for successfully translating your research to policymakers and the general public. You will have the opportunity to develop your own short, but informative, “pitch” about your research and also learn strategies for how to transition from describing your research interests to making specific policy requests.

10:30 - 12:00pm  Workshop 2: Careers in Science Policy  
Hatch Auditorium

Panelists: **Tahilia Rebello, PhD** - Research Scientist, Global Mental Health Program, Research Foundation for Mental Hygiene & Project Coordinator, Global Clinical Practice Network, Department of Mental Health and Substance Abuse, WHO; **Meredith Lee, PhD** - AAAS Science and Technology Policy Fellow; Co-Chair, AAAS Fellowship Big Data Group; Homeland Security Advanced Research Projects Agency (HSARPA) - Science and Technology Directorate, Department of Homeland Security; **Wes Brooks, PhD** - Staff Assistant, Congresswoman Iliana Ros-Lehtinen (FL)

Summary: Hear from PhD scientists who successfully transitioned into science policy! Panelists will describe their career path, a typical day in their current position, and the training and skills that allowed them to find and succeed in policy positions. The session will include moderated questions and Q&A.
Detailed Program ctd.

12:00 - 1:00pm  Lunch
   Annenberg West Lobby

Concurrent Workshops

1:00 - 2:30pm  Workshop 3: Communicating with Scientists
   Location: TBA

Workshop led by: **Beth Schachter, PhD** - Science Communications Consulting: Strategies/Tactics of Biomed Grantsmanship (NIH, NSF), Manuscript Writing/Publishing

Summary: This workshop will cover tools for effective communication which will then be put to use in an interactive exercise. Participants will have time to draft a statement about their own research and review and revise it together with others. The best research statements will be selected and presented to the group.

1:00 - 2:30pm  Workshop 4: Fellowships in Science Policy
   Hatch Auditorium

Workshop led by: **Yvette Seger, PhD** - Director of Science Policy, Federation of American Societies For Experimental Biology

Summary: Interested in obtaining a fellowship in Science Policy? Come hear Yvette Seger, as she discusses the current landscape of science policy fellowships, the availability of these fellowships for domestic and international students and postdocs, experiences to pursue while conducting a postdoc to increase the chance of landing a science policy fellowship, and finally, how to prepare a competitive application.
Join us as six Mount Sinai postdocs give short presentations to showcase the breadth of research across ISMMS.

**Youngmin Lee**, PhD (Medicine, Liver Disease):
*Hepatic growth regulation and tumorigenesis is linked to autophagy via the hippo tumor suppressor pathway*

**Matthew Miller**, PhD (Microbiology):
*Learning from nature – Developing a “universal” influenza virus vaccine*

**Sara Violante**, PhD (Genetic and Genomic Sciences):
*Peroxisomal fatty acid beta-oxidation as a modifier and therapeutic target in mitochondrial fatty acid oxidation defects*

**Kamila Sip**, PhD (Psychiatry and Neuroscience):
*The role of contextual setting in risk-taking behavior in obsessive-compulsive disorder*

**Erin Bobeck**, PhD (Pharmacology and Systems Therapeutics):
*When BigLEN met GPR171: A tale of a recently deorphanized neuropeptide/receptor system*

**Rachel Litke**, PhD (Neuroscience):
*Role of HAT on β-amyloid toxicity in Caenorhabditis Elegans*
Detailed Program ctd.

4:00 - 4:15pm  Introduction to Keynote Talk & Raffle Draw  
Hatch Auditorium

Eric Sweet, PhD and Kamila Sip, PhD  
Chairs of the Postdoctoral Executive Committee

4:15 - 5:15pm  Keynote Talk: Dr. Bruce Alberts, UCSF  
Hatch Auditorium

“The Future of Biology: Keeping Science Healthy”

Dr. Bruce M. Alberts served as Editor-in-Chief of Science (2008-2013) and as a United States Science Envoy (2009-2011). Dr. Alberts holds the Chancellor’s Leadership Chair in Biochemistry and Biophysics for Science and Education at the University of California, San Francisco, to which he returned after serving two six-year terms as the president of the National Academy of Sciences (NAS). Dr. Alberts is noted as one of the original authors of The Molecular Biology of the Cell, a pre-eminent textbook in the field now in its fifth edition. He has earned many honors and awards, including 16 honorary degrees. He currently serves on the advisory boards of more than 25 nonprofit institutions, including the Gordon and Betty Moore Foundation and the Strategic Education Research Partnership (SERP).

5:15 - 7:15pm  Networking Reception  
Annenberg West Lobby

Please join us and take this opportunity to network with our speakers, postdocs, and invited guests (see next page for guest list).
Meet the second winner of the Robin Chemers Neustein Award

**Allyson Friedman, PhD, ISMMS**

Dr. Allyson K. Friedman works in the laboratory of Ming-Hu Han, PhD, Assistant Professor in the Department of Pharmacology and Systems Therapeutics, and is an alumna of Mount Sinai 's Graduate School. Dr. Friedman’s research has demonstrated that resilience to chronic social stress is achieved through homeostatic mechanisms that stabilize midbrain dopamine activity, an important system in the brain that controls reward and motivation. Her work proposes that promoting these naturally occurring homeostatic mechanisms has antidepressant effects. This has provided a conceptually new avenue for exploring depression treatment. Her future studies will explore the beneficial role social support has on reward and motivation circuitry with the goal of developing novel therapeutics.
Networking Reception

✦ Dale Yu  
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✦ Michelle DeSimone  
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✦ Arlene Bartolome  
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✦ Peter Paciorek, PhD  
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  Director, Academic Alliances

✦ Wen Fury, PhD  
  Director, Molecular Profiling  
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✦ Rachel Houghton  
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  Coordinator, Postdoc Program
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ISMMS 5th Annual Postdoc Symposium

SynchroPET

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Marc Alessi  David Smith

The New York Academy of Sciences

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Siobhan Gregg

NYCEDC

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  Program Manager
- Eric Vieira, PhD
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Nature Medicine

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Raffle Prizes

We thank the following businesses in our community that have contributed prizes to our raffle!

Pick up raffle tickets at the workshops and the data blitz. Winners will be announced before the keynote talk.

Best of luck!
~ Your Postdoc Executive Committee

- Bonjour Crepes and Wine; 94th and Lexington
- SRB Steep Rock Bouldering; 97th and Lexington
- Jerome Florists; 96th and Madison
Upcoming Events

Be sure to check out the following upcoming events. We hope to see you there!

Grantsmanship for Graduate Students and Postdocs  
October 9th; New York Academy of Sciences

From Scientist to CSO  
October 21st - December 13th  
New York Academy of Sciences

Conflict Resolution Skills: In and Out of the Lab  
October 26th; New York Academy of Sciences

Postdoc Writing Group  
October 3rd; October 17th; November 7th

RCR Training Course  
October 2nd; October 9th; October 16th; October 23rd

Career Development Seminars  
October 8th, November 12th, December 10th

Postdoc Socials  
October 31st; November 21st

SinaInnovations  
November 18th/19th
Postdoc Resources

Check out our website at
www.mssm.edu/postdoc

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“Mount Sinai Postdoctoral Association”

Join our Alumni LinkedIn Group
“MSSM Postdoctoral Alumni Network”

Visit www.nationalpostdoc.org for additional resources