

COLLEGE OF SCIENCES
BIOLOGICAL SCIENCES

Biological Sciences

April 10th, 2017 AY 16-17 #163

Announcements

BioSci was well represented at this weekend's Triangle SciTech Expo held at the NC Museum of Natural Sciences. A good time was had by all! Image 1: PhD students AtLee Watson and Allison Camp explain phenotypic plasticity using daphnia as a "super critter". Image 2: A visit by daphnia man. (Jerry LeBlanc) Image 3: The College of Sciences Genetics Program Table showed children the advantages and disadvantages of different sized and shape beaks using the finch as a model. Thanks to Connor McKenney for volunteering!







BioSci would like to welcome Kurt Marsden and Jenn Beattie. Kurt, a neurophysiologist working with zebrafish, is the latest addition to the Department. His wife Jenn will be teaching voice in the Music Department.



BioSci would also like to welcome environmental health scientist, Dr. Jerry Heindel as the newest addition to our adjunct faculty.



Con-grant-ulations are in order for BioSci's Seth Kullman and co-PI Heather Stapleton, who just received an NIEHS R01! The grant, entitled, "Altering the Balance of Adipogenic and Osteogenic Regulatory Pathways from Early Life Exposure to Halogenated Phenolic Contaminants and Organophosphates" will explore how brominated and OP-flame retardants alter thyroid hormone receptors and PPAR gamma cross talk regulating adipogenic and osteogenic programs. They will be working in both human mesenchymal stem cells and zebrafish. The grant is part of the Duke University superfund program (P42) that was just re-approved. Way to go Seth and Heather!

Lisa Paciulli was awarded the Association of College Unions International Excellence in Innovations for Sustainability Award for her contribution to the campus aquaponics project. Thanks for making such a positive impact Lisa!



Addie Jackson (left), incoming president and current secretary of the Student Centers Board of Directors, handing the Association of College Unions International Excellence in Innovations for Sustainability Award to Dr. Lisa Paciulli (right), Advisor of the Recirculating Farms Club, for the club's aquaponics exhibit in Talley, which is now on display in The Oval. Monday, March 27, 2017, 6:00 p.m. Photo credit: Catherine Kubitschek

Save-the-Date

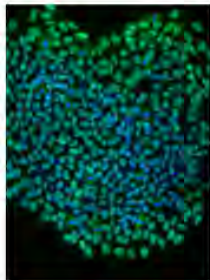
CHHE and CMI joint seminar

“Genome editing and stem cell engineering for disease modeling”

Adriana Beltran, Ph.D.
Director, Human Pluripotent Stem Cell Core
UNC Chapel Hill School of Medicine

You are invited to learn about the services offered
by the core to help your research!
All faculty, staff, postdocs and students are welcome

Thursday, April 13, 3:30pm-4:30pm
Toxicology Building, Auditorium Room 2104
Centennial Campus, NC State University



The Core aims to facilitate studies in human stem cell biology by providing relevant expertise and services, including:

- Generation of iPS cells
- Differentiation of ES and iPS cells
- Genome editing with TALEN/CRISPR
- Gene regulation and chromatin remodeling with ZFP, TALEN and CRISPR technologies

The heat, air conditioning and secondary power will be disconnected at Thomas Hall all of 1st and 2nd floors, part of 3rd and 4th floors on 4/10/17 beginning at 7:00 AM and ending on 4/14/17 at 4:00 PM. The disconnect is necessary in order to replace the VFD for the AHU in room 1573. We are also replacing the MCC panel in this room. The power will only be off in the mechanical room 1573 to the air handlers during this time.

3rd Annual Spring Conference

Plan to Participate!

- Network with local neuroscientists
- Present a poster
- Attend "ask a grad student" panel
- Attendance is free!!!**

Featured Speakers-



Dr. David Anderson
California Institute of Technology



Dr. Serena Dudek
National Institute of Environmental Health Sciences



Dr. Leslie Sombers
North Carolina State University



Dr. Michael Nader
Wake Forest University



April 13, 2017

10:00 am - 5:30 pm

Embassy Suites

201 Harrison Oaks Blvd, Cary, NC

20TH ANNUAL NIEHS BIOMEDICAL CAREER SYMPOSIUM



Friday, April 21, 2017

7:45 a.m. – 5:00 p.m.

EPA Campus, Building C

109 TW Alexander Drive • Research Triangle Park, N.C.

Keynote Address

How Economics Shapes the Early Careers of Scientists

Paula Stephan, Ph.D.



**Professor of Economics,
Georgia State University,
and Research Associate,
National Bureau of
Economic Research**

*Author of the book
"How Economics Shapes Science"*

*Selected as Science Careers first
Person of the Year in 2012 for her
contributions to the welfare
of early-career scientists*

Career-Specific Discussions

- Entrepreneurship and Biotech Startups
- Academia
- Science Outreach
- Scientific Review Officer/ Grants Management
- Non-Profit Organizations
- Consulting
- Medical Writing and Scientific Writing
- Contract Organizations (CDMO/CRO)
- How to Be a Competitive Applicant: Ask Human Resources

Career Development Workshops

- How to Avoid Self-Sabotage and Win at Salary Negotiations
- Articulating Your Accomplishments: Tips for Creating a High-Impact Job Application
- Starting Your Own Lab
- Overview of the Industry Career Landscape
- Interviewing with Confidence
- Networking: A Tool for Exploring Careers and Building Professional Relationships
- Foundations of Good Grantsmanship
- The Government Job Application Process: Navigating USAJOBS.gov
- A Practical Approach to Managing Conflict and Preparing for Difficult Conversations
- Building an Online Presence Using Free Internet Tools

Networking Opportunities

- Informal Networking Lunch
- Afternoon Reception
- Exhibitor Browsing – Local Organizations Focused on Biomedical Research
- Meet With HR Company Representatives

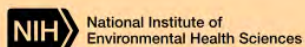
One-on-One CV/Resume Consultations With Professionals From Academia, Industry, and Government

For more information, visit

<https://tools.niehs.nih.gov/careerfair>

Email: NIEHSCareerSymposium@niehs.nih.gov

Sponsored by the NIEHS Trainees Assembly



TOXICOLOGY PROGRAM

SPRING 2017 SEMINAR SCHEDULE

Tuesdays @ 4:00 PM Toxicology Building Room 2104, Centennial Campus

*Co-sponsored by Center for Human Health and the Environment

DATE	SPEAKER <i>Affiliation</i>	TITLE
1/10	Jason Richardson <i>Northeast Ohio Medical University</i>	Gene-environment interactions in neurological disorders
1/17	Russell Thomas <i>EPA</i>	Too many chemicals, so little time
1/24	Darryl Zeldin* <i>NIEHS</i>	Thromboxane (TXA2) Attenuates Th9 Cell Differentiation and Function During Allergic Lung Inflammation
1/31	Christopher Sistrunk <i>Alumni Speaker City of Hope</i>	Hiding in Plain Sight: How Morphologically Normal Breast Tissues Display Biochemically Cancerous Phenotypes in High Risk Women
2/7	Hazel Nichols <i>UNC Gillings School of Global Public Health</i>	Cancer and pregnancy
2/14	John Brock <i>UNC Asheville</i>	Human and Wildlife Exposure to Phthalates: Discovery and Future Directions
2/21	Katherine Franz <i>Duke University</i>	Designing molecules to mine for copper along the host-pathogen interface
2/28	Mark Zylka <i>UNC School of Medicine</i>	Genetic and environmental risks for autism
3/7	No Seminar	SPRING BREAK
3/14	No Seminar	Society of Toxicology Meeting
3/21	Humphrey Hung-Chang Yao* <i>NIEHS</i>	Sex, Arsenic, and Hedgehog: Mouse Models of Fetal Origins of Adult Diseases
3/28	Serena Dudek <i>NIEHS</i>	New insights into regulating synaptic plasticity from an unexpected place: Hippocampal Area CA2
4/4	TBD	
4/11	Antony Williams <i>EPA</i>	The EPA CompTox Chemistry Dashboard – A Data Integration Hub for Environmental Chemists and Toxicologists
4/18	Allison Camp <i>NCSU, PhD Student Advisor: Gerald LeBlanc</i> & Stephanie Eytcheson <i>NCSU, PhD Student Advisor: Gerald LeBlanc</i>	<i>TBD</i> & <i>Hemoglobin Levels Modulate Toxicity to Nitrate</i>
4/25	Rick Woychik* <i>NIEHS</i>	Research Strategies for Exploring the Landscape of Environmental Health

Time: 1:30 pm

Location: Stephens Room, 3503 Thomas Hall



January 23
Dr. Steven Benner,
Foundation for Applied Molecular Evolution
(Hosted by Dr. Jeff Thorne)



February 6
Dr. Karl Broman
University of Wisconsin
(Hosted by the Genetics Graduate Students)



February 20
Dr. Chao-Qiang Lai
Alumnus Seminar
USDA, Tufts University
(Hosted by Dr. Trudy Mackay)



March 13
Dr. Susan McCouch
Cornell University
(Hosted by the Genetics Graduate Students)



March 27
Dr. Kirk Wilhelmsen
UNC-Chapel Hill
(Hosted by Dr. Robert Anholt)



April 10
Dr. Charles Aquadro
Cornell University
(Hosted by the Genetics Graduate Students)



April 24
Dr. Craig Montell
University of California at Santa Barbara
(Hosted by Dr. Robert Anholt)



January 30
Dr. William Jeffery
University of Maryland
(Hosted by the Genetics Graduate Students)



February 13
Dr. Brian Wiegmann
Charles Darwin Lecture
NC State University
(Hosted by the Dr. Trudy Mackay)



February 27
Dr. Eric Gaucher
Georgia Tech
(Hosted by Dr. Jeff Thorne)



March 20
Dr. Logan Everett
NC State University
(Hosted by Dr. Trudy Mackay)



April 3
Dr. Mariana Wolfner
Cornell University
(Hosted by Dr. Robert Anholt)



April 17
Dr. Philip Benfey
Duke University
(Hosted by Dr. José Alonso)

W. M. Keck Center for Behavioral Biology

Distinguished Speaker Series

Spring 2017

January 26 John McGann

*Department of Psychology
Rutgers University*

***Beyond Bottom-Up Sensory Processing: Learning and Expectation
Can Shape Sensory Input to the Mouse Brain***

3:30 pm - 101DCL



February 9 Karen Carleton

*Department of Biology
University of Maryland, College Park*

QTL and Gene Regulatory Networks for Seeing Through the Eyes of a Fish

3:30 pm – 3503 Thomas Hall



March 9 Marlene Zuk

*College of Biological Sciences
University of Minnesota*

Rapid Evolution in Silence: Adaptive Signal Loss in the Pacific Field Cricket

3:30 pm – 3503 Thomas Hall



March 16 Jon Kaas

*Vanderbilt Brain Institute
Vanderbilt University*

The Evolution of the Human Brain

3:30 pm – 3503 Thomas Hall

7:30 pm – Daily Planet Café
NC Museum of Natural Sciences



April 24 Craig Montell

*Molecular, Cellular and Developmental Biology
University of California at Santa Barbara*

Decoding the Receptors Controlling Animal Behavior in Drosophila

1:30 pm – 3503 Thomas Hall



Spring 2017 Neuro Events

Neurogroup meets 3rd Thursday Stephens room 3rd floor Thomas Hall 11:30-1:00
Neurojournal club meets once a month in room 139 of David Clark Labs 11:00-12:00

January 19 Neuro-group	March 24 Neurojournal
February 3 Neurojournal	April 13 Triangle Society for Neuroscience http://trianglesfn.org/springmeeting/
February 16 Neuro-group	April 20 Neuro-group
March 3 Neurojournal	April 20 Neuro-group
Brain Awareness Day March 16 Neuro-group 11:30 Jon Kaas seminar 3:30 NCMNS event 6:30	April 21 Neurojournal Dr. Alex Marshall High Point University May 18 Neuro-group

There will be a **Hot Water, Heating and Steam Disconnect** for multiple buildings starting on **Monday, May 15, 2017 at 6:00 AM** until Friday, **May 19, 2017 at 12:00 PM**. This disconnect is needed for piping and the installation of the PRV station.

The following buildings will be affected:

Dabney
DH Hill (All)
Williams & Addition
Bostian
Scott
Kilgore
Nelson
David Clark Labs & Addition
Thomas
Gardner
Phytotron
Biological Resources Facility
Marye Anne Fox

AND

There will be a **Hot Water, Heating, Steam and Reheat Disconnect** for multiple buildings starting on **Friday, June 9, 2017 at 5:00 PM** until Monday, **June 12, 2017 at 7:00 AM**. This disconnect is needed for piping and the installation of the PRV station.

The following buildings will be affected:

Dabney
DH Hill (All)
Williams & Addition

Bostian
Scott
Kilgore
Nelson
David Clark Labs & Addition
Thomas
Gardner
Phytotron
Biological Resources Facility
Marye Anne Fox

**Duke Women in Science & Engineering &
Graduate Women in Science
Research Triangle Chapter**

A Celebration of Women in Science

Free Research Symposium
Saturday, May 20, 2017
Love Auditorium at Duke University

- 1:00 PM - Welcome
- 1:15 PM - Keynote Address
Dr. Patricia Jensen
National Institute of Environmental
Health Sciences
“Diverse Origins in Science”
- 2:30 PM - Short Talks
- 3:30 - 5:00 PM - Poster Session,
Reception With Refreshments



- ★ Register for a short talk by **April 25, 2017**
Talks selected by GWIS and Duke WISE officers - notification May 1, 2017
- ★ General registration open until **May 1, 2017**
- ★ **Register: gwisresearchtriangle.org/women-in-science-symposium/**



More Information
sites.duke.edu/wise/
gwisresearchtriangle.org

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