COLLEGE OF SCIENCES BIOLOGICAL SCIENCES

Biological Sciences

September 19, 2016 AY 16-17 #134

Department Announcements:

Congratulations:

Fred Wright, Professor of Statistics and Biological Sciences, and Professor Andrew Nobel of UNC have been awarded a new 3-year \$1.2 million grant from NHGRI, "Multi-tissue and network models for next-generation eQTL studies." The grant stems from work that Wright, Nobel, and Research Assistant Professor Yi-Hui Zhou have performed as part of the Genotype-Tissue Expression (GTEx) Consortium, which has gathered the world's richest dataset on human genetic variation and gene expression across multiple tissues. The grant will address the multi-faceted statistical challenges that arise from analyzing the genetic regulation of expression, embedded within models that can handle simultaneous inference across dozens of tissues. The investigators have been active contributors to GTEx since the founding of the Consortium in 2010, and their modeling work has helped elucidate the tissue-specific nature of genetic regulation, with important implications for genetic components of disease risk.



HR-Benefits will again be sponsoring appointment and walk-in flu vaccination clinics across campus during the months of October and November. Just like prior years, all State Health Plan members, dependents, and pre-age 65 retirees are eligible for a FREE flu vaccination at the NC State campus clinics.

For more details or to schedule your flu vaccination appointment, visit: go.ncsu.edu/FLU

Save-the-Date

ATTENTION: SCHEDULE UPDATE

The Biological Sciences 2016 Fall Seminar Series
Thursdays from 3:30-5 p.m. (**Unless otherwise noted**)
Stephens Room, 3503 Thomas Hall

Check out the seminar schedule below, more titles coming soon!

Tuesday, September 20th, 12-1:20 pm: Michael Bereman, NCSU

September 22nd: David Reif, NCSU

October 6th: Elena Schroeter, NCSU

Friday, October 7th 3:30-4:30 p.m: Robert Cooney, UH Manoa

October 20th: TBA

November 3rd: Scott Belcher, NCSU

November 17th: Gary Ostrander, FSU

December 1st: Patricia Jensen, NIH

December 15th: Charlotte Boettiger, UNC



Exclusively for you

Join us for Fiesta del Cell, a special event celebrating cell biology where you can:

- Meet your representatives
- Enjoy a great lunch (burritos)
- Check out demos and new products
- \bullet Explore the $\mathsf{Gibco}^{\scriptscriptstyle{\mathsf{TM}}}$ virtual training labs and earn certification badges
- Participate in a series of 10 minute talks across the Thermo Fisher Scientific Cell Biology Workflow
- One hour technical seminar, "How to boost your CRISPR editing efficiencies," we'll discuss the rate-limiting steps in current CRISPR-Cas9 workflows, and introduce streamlined methods to help reduce the editing workflow timeline to just 4 days.

Wednesday, September 21, 2016

Time: 12:00-2:00 p.m.

CRISPR talk from 1:00-2:00 p.m.

Location: NCSU: Stephen's Room

3503 Thomas Hall

To register for this event, go to **thermofisher.com/eventregistration**

To find out more about our products, including cell culture media, reagents, and sera, contact:

Amy Hamilton Account Manager 404 801 6950

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Friday September 23, 3-4pm in DCL123

Melissa Ramirez will present "The Big Picture: Microbiology & 3-D Printed Microscope Adapters" at this week's EON discussion. If you've got any questions abouthe 3-D printing process and resources, Melissa worked to produce microscope cameras for student cell phone over the summer. Come see a sample and ask Melissa about her experience.

Tea and light snacks available.

Interested but cannot attend? Join the EON (education/outreach network) listserv to receive a summary of each week's discussion. Contact Jennifer Landin (jmlandin@ncsu.edu) if you'd like to join

NC STATE

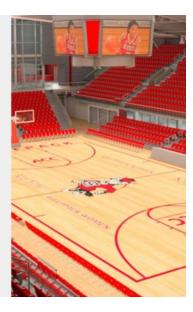
STAFF AND FACULTY APPRECIATION DAY 2016

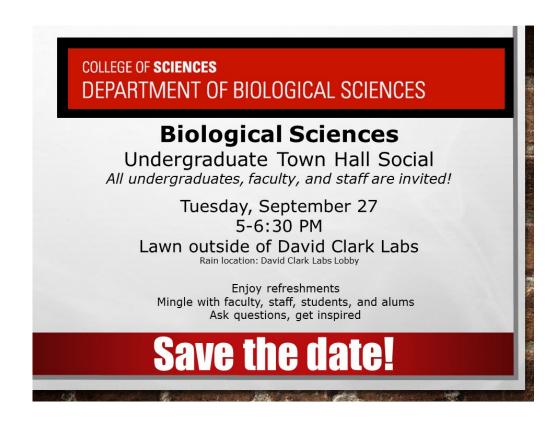
September 26| 11:00am- 2:00pm Reynolds Coliseum

Join us for free food, music, games and giveaways! For more information please visit:

go.ncsu.edu/appreciation

Sponsored by HR-Benefits, Campus Enterprises and NC State Athletics





From the HR Benefits Office of NC State University:

Join us for a great FREE lunch-and-learn opportunity as NC State's HR-Benefits sponsors its third workshop in the Woman 2 Woman Financial series.* This session is entitled "Postcards From the Future: A Woman's Guide to Financially Ever After".

Fewer years in the workforce. Longer life spans. Women saving for retirement face unique challenges. Learn ways to help make the retirement dream come true on schedule. The workshop, facilitated by TIAA, will be held on **Friday, October 7, 2016, in the Talley Student Center, Room 3285**. The session will be held from 12 pm to 1:30 pm. Lunch will be provided, but if you have special dietary needs, feel free to bring your own lunch.

If you have questions, you may contact Kaprina Mitchell at <u>919/515-4311</u> or <u>ksmitch2@ncsu.edu</u>.

Note: The seminar will last a bit longer than the traditional lunch hour, so be sure to check with your supervisor/manager to discuss how the additional leave time will be handled, if applicable.

* The W2W financial workshops are designed to work in conjunction with one another, but are independent learning opportunities. Attendance at prior sessions is not mandatory for the current session to be meaningful.

From the Center for Human Health and the Environment:

The NC State University Center for Human Heath and the Environment (CHHE) is announcing a new request for applications (RFA) for pilot project proposals for Fall of 2016. The overarching objective of the Center for Human Health and the Environment's Pilot Project Program (PPP) is to expand environmental health science research at NC State, ECU and NCCU. Pilot project funding to Center members and other NC State, ECU and NCCU investigators is awarded to collect preliminary data that will support applications for external funding from the National Institute of Environmental Health Sciences (NIEHS), other NIH Institutes and Federal agencies. Consequently, the major emphasis of the PPP is on research into the effects, potential consequences and prevention of environmental exposures on human health. The PPP will support high quality basic, applied, clinical and public health research. The PPP will provide funding for individual, collaborative and multidisciplinary research aimed at understanding the adverse impacts of environmental factors on human health and disease. Multidisciplinary collaborations and use of CHHE's core facilities are strongly encouraged but not required. Abstract pre-submission is encouraged but not required to determine if proposal topics are consistent with the mission of the CHHE. Individual awards will range upwards to \$25,000 for one year. CHHE anticipates funding up to 6 awards for this round. **Applications will be due on October 10th**, **2016**. Application and additional information can be found at chhe.research.ncsu.edu/pilo t-projects

Department of Biological Sciences

TOXICOLOGY PROGRAM Fall 2016 SEMINAR SCHEDULE

Tuesdays @ 4:00 PM Toxicology Building Room 2104, Centennial Campus *Co-sponsored by Toxicology Graduate Student Association **Co-sponsored by Center for Human Health and the Environment

DATE	SPEAKER Affiliation	TITLE
8/23	Jennifer Martinez* NIEHS	"Non-canonical autophagy as a critical regulator of inflammation and autoimmunity"
8/30	Susan Sumner** RTI	"Metabolomics in maternal and child health"
9/6	Rodolphe Barrangou NCSU	"The CRISPR craze: from adaptive immunity to genome editing"
9/13	Rodney Dietert** Cornell University	"Health Risks for the Human Superorganism"
9/20	James Samet EPA/UNC-CH	"Redox Toxicology: Linking Environmental Oxidative Stress to Signaling Dysregulation"
9/27	Jodie Fleming** NCCU	"The role of the Lipolysis Stimulated Lipoprotein Receptor in the promotion of breast cancer"
10/4	Carmen Williams* NIEHS	"Epigenetic reprogramming of female reproductive tract function by developmental exposure to estrogenic chemicals"
10/11	TBA	
10/18	Ernest Hodgson* NCSU	"The Generalist in Toxicology: at Work and at Play"
10/25	Marc Weisskopf** Harvard School of Public Health	"ALS Epidemiology in large populations"
11/1	Chad Blystone* Alumni Speaker NTP	"Evaluation of 4-Methylcyclohexanemethanol developmental toxicity, the primary chemical in the Elk River Spill"
11/8	Zhen Gu NCSU	"Leverage Physiology for Precision Drug Delivery"
11/15	Gina Hilton NCSU PhD Student	"Proteomic discovery of nanoparticle-induced lung disease"
	& Mark Ihrie NCSU PhD Student	& "Allergen-Nanoparticles in asthma susceptibility"
11/22	Kenneth Poss Duke University	"Enhancing tissue regeneration"
11/29	Rusty Thomas US EPA	"Too many chemicals, so little time"



FALL 2016 GENETICS PROGRAM SEMINAR SERIES







Location: Stephens Room, 3503 Thomas Hall





August 29 Dr. Jason Moore, University of Pennsylvania (Hosted by Dr. Trudy Mackay)

September 12 Dr. Rebecca Yang, Duke University

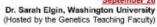
(Hosted by Dr. Robert Anholt)





Dr. Adriana San Miguel, NC State University (Hosted by Dr. Robert Anholt)

September 26







Dr. David Remington, UNC Greensboro (Alumnus Seminar, Hosted by Dr. Trudy Mackay)

October 10

Dr. John Schimenti, Cornell University (Hosted by Dr. Antonio Planchart)





October 17 Dr. Joseph Ecker, The Salk Institute Hosted by Dr. Jose Alonso and Dr. Anna Stepanova)

October 24

Dr. Joan Steitz, Yale University (Hosted by the Genetics Graduate Students)





October 31 Genetics Program Halloween Party Dr. Victor Frankenstein, University of Transylvania (Hosted by the Ghouls and witches of the Genetics Program)

November 7

Dr. Dahlia Nielsen, NC State University (Hosted by Dr. David Aylor)





November 14 Dr. Harris Lewin, UC Davis (Hosted by Dr. Trudy Mackay)

Dr. Laurianne Chantal Van Landeghem, NC State University (Hosted by Dr. Robert Anholt)





November 28 Dr. Hans Hofmann, UT Austin (Hosted by the Genetics Graduate Students)

Dr. Stephen Rich, University of Virginia (Hosted by Dr. Trudy Mackay)





SAVE THE DATE NC SOT Annual Meeting

October 25, 2016

National Institute of Environmental Health Sciences (NIEHS) Main Campus

Research Triangle Park, NC

Scientific Themes: Epigenetics and Stem Cells

Tentative Agenda

8:45 AM - 9:45 AM

Career Panel Breakfast Discussion***

***PRE-REGISTRATION IS REQUIRED; Seating is limited to no more than 25 students/Post-Docs

10:00 AM - 4:30 PM

Welcome & NCSOT Business Meeting

Presentations from Epigenetics Experts: Dr. Shaun McCullough (USEPA) & Dr. Catherine Hoyo (NC State)

President's Award for Research Competition (PARC; Open to Post-Docs Only)

Poster Session (Open to all members) and Competition (Open to both Graduate Students and Post-Docs)

Networking Lunch and Refreshment Break

Platform Presentations (Open to Graduate Students Only)

Presentations from Stem Cell Experts: Dr. Karen Augustine (Bristol Myers-Squibb) & Dr. Guang Hu (NIEHS)

Online Registration: http://www.toxicology.org/groups/rc/nc/meetings.asp

Registration* is required for meeting attendance and will close Friday, October 21, 2016.

Registration covers cost of lunch and refreshments. Note: There will be no On-Site registration available.

*Registration Fees are as follows: NCSOT Member- \$10; NCSOT Non-Member- \$15; NCSOT Student/Post Doc Member- \$5; NCSOT Student/Post Doc Non-Member- \$10

Thank you to NIEHS for providing the venue for this meeting!

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