

# THE TIBBS TIMES

Your source for campus events, news, and information designed especially for UNC bioscience PhD students.

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## New Professional Development Books for Scientists Available Free from TIBBS

The Burroughs Wellcome Fund is a private foundation headquartered in RTP that is dedicated to advancing the medical sciences by supporting research and helping scientists early in their careers develop as independent investigators. They recently published two books that are excellent resources for graduate students.



*[Communicating Science: Giving Talks](#)*, provides advice for scientific speakers including tips on putting together talks, insights into how to use technology to your benefit, horror stories about speeches gone wrong, and pointers to inexpensive, approachable resources available in most communities to polish speaking skills and gain confidence. (45 pages)



*[Staffing the Lab: Perspectives from Both Sides of the Bench](#)* answers the question of how to find the best laboratory to work in after a researcher has finished her doctoral program. It also takes the perspective of the principle investigator looking for a candidate to fill a position in her lab. (70 pages)



If you would like a FREE copy of either of these books please email Patrick Brandt ([pdb@unc.edu](mailto:pdb@unc.edu)) and include your campus box number.

## TIBBS Professional Development Library Book Reviews

UNC's biomedical graduate students now have their own source of more than 60 books covering a broad range of topics from career exploration, to manuscript preparation, to academic job searching, to issues facing minority students. The new library is housed in the TIBBS/BBSP offices in the northeast corner of the 1st floor of the Bioinformatics Building.



### **Building a Successful Career in Scientific Research: A guide for PhD students and Postdocs** by Phil Dee

From PhD student to post-doc, Phil Dee has been sharing his career experiences with fellow scientists in his regular and acclaimed Science Next Wave column since 2000. Now his invaluable and entertaining advice is available in this compact warts-and-all guide to getting your science PhD and subsequent post-doctoral employment as a researcher. Dee offers you the inside track on what life in the lab is really like with down-to-earth suggestions for handling personal relationships in science, maintaining your morale or designing a good poster.



### **Motherhood, The Elephant in the Laboratory: Women Scientists Speak Out** by Emily Monosson

As increasing numbers of women pursue research careers in science, many who choose to have children discover the unique difficulties of balancing a professional life in these highly competitive (and often male-dominated) fields with the demands of motherhood. Although this issue directly affects the career advancement of women scientists, it is rarely discussed as a professional concern, leaving individuals to face the dilemma on their own.

To address this obvious but unacknowledged crisis, Emily Monosson, an independent toxicologist, has brought together 34 women scientists from overlapping generations and several fields of research to share their experiences. From women who began their careers in the 1970s and brought their newborns to work, breastfeeding them under ponchos, to graduate students today, the authors of the candid essays written for this groundbreaking volume reveal a range of career choices: the authors work part-time and full-time; they opt out and then opt back in; they become entrepreneurs; they teach high school and have achieved tenure.

If you're interested in borrowing one of the books please contact Ms. Eileen Hayter ([ehayter@email.unc.edu](mailto:ehayter@email.unc.edu) or 843-8291) to be sure the book is available.

**[For a complete list of books available in the TIBBS Library click here](#)**

## ***TIBBS-Sponsored Events in December***

**Wednesday 12/9 OR Thursday 12/10. 12:00 to 1:00. Women in Science (WinS) Brown Bag Lunch. Topic: Work-Life Balance IS Compatible with being a Faculty Member!**

All graduate students and postdocs are invited to attend this discussion with female faculty members. Please bring your lunch and questions regarding work-life balance issues unique to female faculty members. Light refreshments will be provided.

Please note there are 2 dates scheduled for the same topic. Please come to whichever is more convenient for you: 12:00 to 1:00 on Wednesday in Mary Ellen Jones 802 and 12:00 to 1:00 on Thursday in MacNider 133

[Click here to register for the discussion on Wed.](#)

[Click here to register for the discussion on Thurs.](#)

**Tuesday 12/15, 3:30 to 5:00, Location TBA  
“My 3 journeys to a successful academic research career” with Dr. Susan Henning, PhD**

Dr. Susan Henning, professor of Medicine and Cellular and Molecular Physiology at UNC, is a nationally recognized expert in the field of gastrointestinal physiology. She originally presented a highly acclaimed version of her “Three Journeys” talk at the American Physiological Society after being awarded the prestigious Horace W. Davenport Distinguished Lectureship.



Attendees will benefit from Dr. Henning’s advice, experience, and humor as she details her journey as a female scientist trained in Australia in the late 1960’s, coming to the US, and making for herself a successful and rewarding academic research career.

[Click here to register.](#)

## **Where on Campus is That??**

If you’re one of the first ten PhD students to correctly identify the location of this picture on UNC campus you’ll get a free candy bar! Email your guesses to [pdb@unc.edu](mailto:pdb@unc.edu).



[Click here for past contest photos and a list of winners](#)

## December 2009 Seminars (page 1 of 3)

### December 2nd

**Microvesicles clearance** Presented by Dr. Perumal Thiagajaran, MD, professor in Department of Pathology at Baylor Medical College. Part of the Thrombosis & Hemostasis series held from 10:00 – 11:00 in the Pagano Conference Room, LCCC.

**BIOS Seminar: Analysis of Copy Number Variations using High-Density SNP Genotyping Data and Next-Generation Sequencing Data** Presented by Mingyao Li, PhD, Dept. of Biostatistics and Epidemiology, U Penn, School of Medicine. Short description: I will describe an extension of the PennCNV algorithm for the analysis of next-generation sequencing data along with an example from the analysis of data generated from the 1000 Genomes Project. Held from 3:30-4:30 in McGavran-Greenberg Hall, Rm 1301.

**Interaction Motifs of the Androgen Receptor and Its Coregulators** Presented by Elizabeth M. Wilson, Prof., Department of Pediatrics and Biochemistry & Biophysics, UNC-CH held at 12:00 PM in Chapman 125.

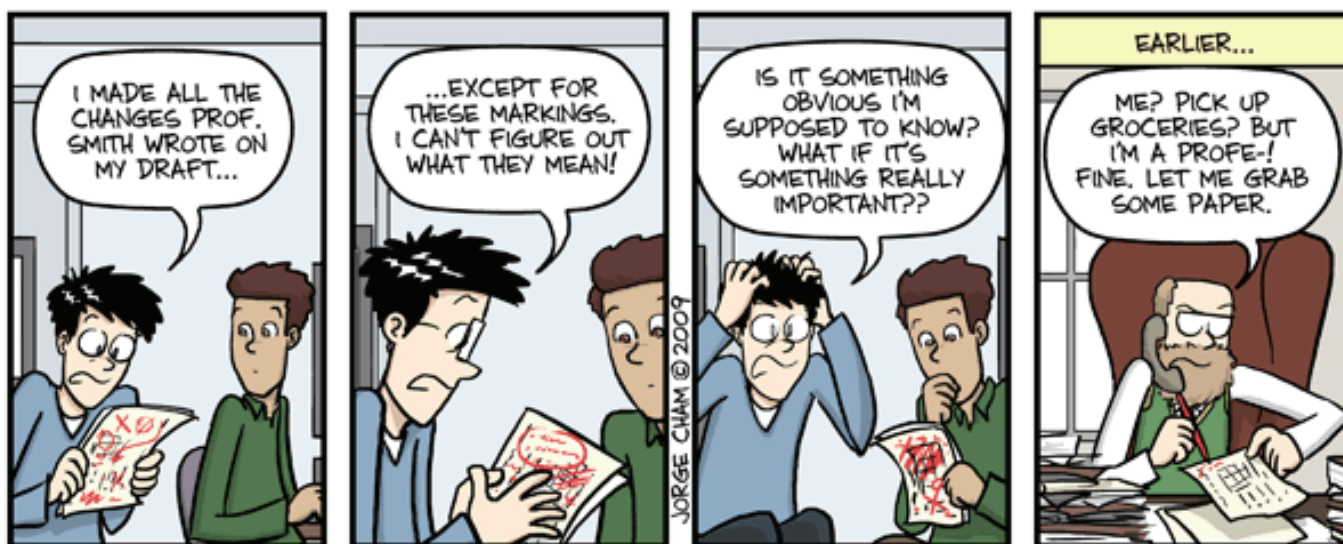
**The Premise of Preorganization and Peptidomimetic Design** Presented by Dr. Garland Marshall (Washington University) as part of the Medicinal Chemistry Seminar held at 3:00 pm in Kerr Hall, room 2001.

### December 3<sup>rd</sup>

**Multicomponent Coupling Reactions Involving Silyl Glyoxylates and an Application towards the Synthesis of (+)-Trehazolin** Presented by Greg Boyce, UNC-CH at 4:00 PM in Chapman 125.

**"SOX2 Regulates Neurogenic Potential of Glial Cells in the Adult Retina"** Presented by Larysa Pevny, PhD Associate Professor, UNC Neuroscience Center at 12:30pm in 1131 Bioinformatics.

## PhD Comics by Jorge Cham, PhD



## **December 2009 Seminars (page 2 of 3)**

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### **December 4<sup>th</sup>**

**Factors that shape composition of the mammalian gut microbiome: how much G and how much E**  
Presented by Andrew Benson, PhD Professor of Food Science and Technology Director, Core for Applied Genomics and Ecology University of Nebraska. Held at 12:00 pm in Bondurant G100.

**Progress toward the Total Synthesis of Aldingenin B** Presented by Colin Hughes, UNC-CH at 12:00 pm in Chapman 125.

**The effects of song competition on the brain and behavior of male Lincoln's sparrows** Presented by Dr. Kendra Sewall, UNC postdoc, at noon in Coker 215.

### **December 7<sup>th</sup>**

**AT1 Angiotensin Receptors and Blood Pressure: The Kidney Chronicles** Presented by Thomas M. Coffman, MD Division Chief, Nephrology Department of Medicine Duke University Medical Center as part of the Cell & Molecular Physiology Series. Held from 12:00-1:00 pm in G202 MBRB.

**Designing Ion-Containing Polymers for Facile Ion Transport** Presented by Ralph Colby, Prof., Pennsylvania State University at 4:00 pm in Chapman 125.

**"E-Pluribus Tres: The Nobel Prizes in Chemistry"** Presented by Charles W. Carter, Jr., PhD, Dept. of Biochemistry & Biophysics at 4:00 pm in G202 Medical Biomolecular Research Building.

**TRIM25-RIG-I vs Influenza virus NS1** Presented by Dr. Jae U Jung University of Southern California at 3:30 pm in the Joseph S. Pagano Conference Room, UNC Lineberger Cancer Center.

### **December 8<sup>th</sup>**

#### **"Bacterial Transcription Regulation by the Novel Anti-Sigma Factor AsiA"**

Presented by Dr. Jeff Urbauer University of Georgia as part of the Biochemistry & Biophysics Seminar Series held from 11:00-12:00 in MBRB G202.

**Chromatin-Mediated Regulation of Genome Accessibility in Development, Differentiation, and Disease** Presented by Jason Lieb, PhD, professor, Department of Biology, The University of North Carolina at Chapel Hill. Held at 4:00 pm in Coker 201.

**Systems Biology & Mode of Action Based Risk Assessment** Presented by Dr. Stephen Edwards, National Health & Environmental Effects (NHEERL) at 4:00 pm in 1131 Bioinformatics.

**Trimeric autotransporters and Haemophilus pathogenicity** Presented by Joseph W. St. Geme, III, MD Duke University Medical Center at 9:30 am in 1131 Bioinformatics.

### **December 10<sup>th</sup>**

**"A New Look at Notch Signaling in Embryonic Neural Stem Cells and Neurons"** Presented by Nick Gaiano, PhD Associate Professor, Neurology, Neuroscience and Oncology, Johns Hopkins at 12:30 pm in 1131 Bioinformatics.

## **December 2009 Seminars (page 3 of 3)**

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**December 11th**

**A Novel Biosensor Platform for Enhanced-throughput Thermodynamic Analysis of Macromolecular Interactions**

Presented by Dr. John Kulman as part of the Thrombosis & Hemostasis series. Held from 11:00-12:00 in Pagano Conference Room, LCCC.

**Breaching Basement Membrane: Anchor Cell Invasion in *C. elegans*** Presented by David Sherwood, PhD Assistant Professor of Biology, Duke University. Held at 12:00 in Bondurant G100.

**December 14<sup>th</sup>**

**"Local and Systemic Inflammatory Response after Alcohol and Burn Injury."**

Presented by Elizabeth Kovacs, Ph.D., Director, Alcohol Research Program, Vice Chair for Research, Department of Surgery, Loyola University Medical Center as part of the Bowles Center for Alcohol Studies series. Held from 12:30-1:30 in 124 Taylor Hall.

**"Determinants of children's food preferences: genetic and behavioral factors."** Presented by Dr. Lucy Cooke of the Behavioral Research Center, University College London 5:00-6:00 BCBS Auditorium, 0001 Hooker Research Center  
6:00-7:00 Reception.

**December 15th**

**McAllister Heart Institute Seminar Series** presented by Dr. Jon Seidman, Harvard Medical School. Held from 12:00-1:00 in MBRB G202.

**Computational regulatory genomics for understanding transcription in *D. Melanogaster*** Presented by Uwe Ohler, PhD Duke University at 4:00 pm in 1131 Bioinformatics.

**December 16<sup>th</sup>**

**Cigarette and hookah tobacco use in the context of social networks during the first year of college: a pilot study** Presented by Stephanei R. Land, PhD  
University of Pittsburgh Cancer Institute at 3:00 pm in 1301 McGavran Greenberg.

**December 17<sup>th</sup>**

**"Cortical Interneurons: Fate Determination and Potential Use in Cell Based Therapy for Epilepsy"**  
Stewart Anderson, MD Associate Professor, Psychiatry, Neurology, and Neuroscience, Cornell at 12:30 pm in 1131 Bioinformatics.

**December 18th**

**Greasing the Cytoskeleton: How Phospholipids Regulate Platelet Actin Dynamics** Presented by Dr. Charles Abrams as part of the Thrombosis & Hemostasis series. Held from 11:00 – 12:00 in Pagano Conference Room, LCCC.

## December 2009 Campus Events and Workshops (Page 1 of 3)

### December 2nd

#### Rat Handling and Techniques

The IACUC Rat Handling and Techniques class is a hands-on wet lab designed to teach students basic techniques in rat handling. Techniques taught include restraint, simple injections, bleeding techniques, anesthesia and euthanasia. This course is mandatory for all Laboratory Animal Coordinators in laboratories working with live rats. All UNC rat handlers are welcome to attend. Alternatively, training and certification may be provided through a certified proficient Laboratory Animal Coordinator.

Prerequisites: Research Profile, Lab Worker Form, Animal Handler Form, and IACUC/DLAM on-line orientation ([http://cfx3.research.unc.edu/iacuc\\_reg/](http://cfx3.research.unc.edu/iacuc_reg/)). Held from 10:00-12:00 in 148 Glaxo. To register: [http://cfx.research.unc.edu/res\\_classreg/browse\\_single.cfm?New=1&event\\_id=22238](http://cfx.research.unc.edu/res_classreg/browse_single.cfm?New=1&event_id=22238)

#### Introduction to Vector NTI

This session will be an overview of the basic tools available in Vector NTI. Vector NTI contains many of the common tools necessary for manipulating and analyzing DNA and protein sequence and is widely used by labs at UNC. The modules that make up the Vector NTI system support annotation, assembly, blast searching, translation, primer design and in silico cloning. Vector NTI also contains a local database that is very useful for managing both sequence files and results. The graphical interface, image quality, and ease of information import and export from Vector NTI are very user friendly. This session will be hands on for those using a Windows version of Vector NTI although the tools are applicable for Macintosh users. 2-4 PM in Rm 2136 Bioinformatics. To register: [http://bioinformatics.unc.edu/cgi-bin/dev/seminars.cgi?db=default&uid=&view\\_records=1&ID=\\* &mh=10&sb=5&so=ascend](http://bioinformatics.unc.edu/cgi-bin/dev/seminars.cgi?db=default&uid=&view_records=1&ID=* &mh=10&sb=5&so=ascend)

#### Identifying Funding Sources for Graduate Research and Study

The workshops include Fundamentals of graduate funding and Tips for researching funding opportunities Hands-on instruction in the best use of online funding resources including the COS funding database and customizable alert service. Held from 10:30 am to 12:00 pm in 307 Health Sciences Library

### December 3<sup>rd</sup>

#### Basic EndNote

This Basic EndNote class will touch on the fundamental functions of the EndNote software. Building your library, managing your sources, and inserting your citations into your documents will be the focus of what we will cover. This class is structured for new to beginning users. 13 seats available. Held from 3:00pm to 4:00pm, HSL - 329.

#### Carolina Innovations Seminar

Randy Whitmeyer of Hutchison Law Group will be discussing mistakes that start-up companies often make in regard to managing their intellectual property. Some of the topics that will be discussed regarding patent strategy will include foreign filing decisions, budgeting for patent prosecution, and managing IP that is being developed within the university. Held from 5:30-6:30 p.m. in Sitterson Hall, Room 014.

### December 4<sup>th</sup>

#### Introduction to Sequencher

This session will be an overview of the basic tools available in Sequencher. Topics covered in this session: importation and quality assessment of sequences, trimming sequences (vector, endtrimming), general sequence assembly options and contig editing and exporting various results. The assembly to reference capabilities (useful for SNP and mutation identification) with an emphasis on the variance table will be covered. This session will be hands on for those who use a Windows version of Sequencher although is applicable for Macintosh users. This workshop will be from 2-4 PM in Rm 2150 Bioinformatics. To register: [http://bioinformatics.unc.edu/cgi-in/dev/seminars.cgi?db=default&uid=&view\\_records=1&ID=\\* &mh=10&sb=5&so=ascend](http://bioinformatics.unc.edu/cgi-in/dev/seminars.cgi?db=default&uid=&view_records=1&ID=* &mh=10&sb=5&so=ascend)

## December 2009 Campus Events and Workshops (Page 2 of 3)

### December 8th

#### Mouse Handling and Techniques

The IACUC Mouse Handling and Techniques class is a hands-on wet lab designed to teach students basic techniques in mouse handling. Techniques taught include restraint, simple injections, bleeding techniques, anesthesia and euthanasia. This course is mandatory for all Laboratory Animal Coordinators in laboratories working with live mice. All UNC mouse handlers are welcome to attend. Alternatively, training and certification may be provided through a certified proficient Laboratory Animal Coordinator.

Prerequisites: Research Profile, Lab Worker Form, Animal Handler Form, and IACUC/DLAM on-line orientation ([http://cfx3.research.unc.edu/iacuc\\_reg/](http://cfx3.research.unc.edu/iacuc_reg/)). Held from 10:00 AM - 12:00 PM in 148 Glaxo. To register: [http://cfx.research.unc.edu/res\\_classreg/browse\\_single.cfm?New=1&event\\_id=22239](http://cfx.research.unc.edu/res_classreg/browse_single.cfm?New=1&event_id=22239)

### December 9th

**Women in Science (WinS) Discussion. "Work-Life Balance is Compatible with being a Faculty Member!"** All graduate students and postdocs are invited to attend this brown bag lunch with female faculty members. Please bring your lunch and questions regarding work-life balance issues unique to female faculty members. Light refreshments will be provided. 12:00 to 1:00 Mary Ellen Jones 802 (also held on Dec 10<sup>th</sup> if you are unavailable on the 9<sup>th</sup>) [Click here to register for the discussion on 12/9.](#)

### December 10th

**Women in Science (WinS) Discussion. "Work-Life Balance is Compatible with being a Faculty Member!"** All graduate students and postdocs are invited to attend this brown bag lunch with female faculty members. Please bring your lunch and questions regarding work-life balance issues unique to female faculty members. Light refreshments will be provided. 12:00 to 1:00 MacNider 133 (also held on Dec 9<sup>th</sup> if you are unavailable on the 10<sup>th</sup>) [Click here to register for the discussion on 12/10.](#)

### Developing and Evaluating Student Presentations

Many courses include presentations by students or student groups. This workshop is designed to familiarize teachers with the structure of student presentations, to explore innovative and effective use, and to suggest ways to involve the entire class during student presentations. Held from 10:00 AM - 11:30 AM in Carrington Hall, Room 208. To register: [http://www.abcsignup.com/reg/event\\_page.aspx?ek=0052-0006-e2c24b23b8b1435eb4d7b1f2dea37d97](http://www.abcsignup.com/reg/event_page.aspx?ek=0052-0006-e2c24b23b8b1435eb4d7b1f2dea37d97)

### December 11th

#### Creating Writing Assignments That Promote Better Student Papers

Many instructors wish their students were stronger writers but aren't sure how to help. We'll discuss how you can use in-class writing activities, peer writing groups, brief consultations, and other techniques to help students write better papers—without spending hours writing comments. Held from 10:00 AM - 11:30 AM in House Undergraduate Library, Room 207.

### December 15th

#### "My 3 journeys to a successful academic research career" with Dr. Susan Henning, PhD

Dr. Susan Henning, professor of Medicine and Cellular and Molecular Physiology at UNC, is a nationally recognized expert in the field of gastrointestinal physiology. She originally presented a highly acclaimed version of her "Three Journeys" talk at the American Physiological Society after being awarded the prestigious Horace W. Davenport Distinguished Lectureship.

Attendees will benefit from Dr. Henning's advice, experience, and humor as she details her journey as a female scientist trained in Australia in the late 1960's, coming to the US, and making for herself a successful and rewarding academic research career.

3:30 to 5:00 location TBA To register. [http://cfx.research.unc.edu/res\\_classreg/browse\\_single.cfm?New=1&event\\_id=22307](http://cfx.research.unc.edu/res_classreg/browse_single.cfm?New=1&event_id=22307)

## December 2009 Campus Events and Workshops (Page 3 of 3)

### December 16th

**Aseptic Surgical Techniques:** The IACUC Aseptic Surgical Techniques class is a hands-on wet lab designed to teach students how to maintain a sterile field during survival rodent surgery. This course is mandatory for all Laboratory Animal Coordinators in laboratories performing sterile rodent surgery. All UNC rodent users who will be performing sterile surgeries are encouraged to attend. Alternatively, training and certification may be provided through a certified proficient Laboratory Animal Coordinator.

**Prerequisites:** Research Profile, Lab Worker Form, Animal Handler Form, and IACUC/DLAM on-line orientation ([http://cfx3.research.unc.edu/iacuc\\_reg/](http://cfx3.research.unc.edu/iacuc_reg/)). Held from 10:00 AM - 12:00 PM in 148 Glaxo. To register: [http://cfx.research.unc.edu/res\\_classreg/browse\\_single.cfm?New=1&event\\_id=22240](http://cfx.research.unc.edu/res_classreg/browse_single.cfm?New=1&event_id=22240)

### December 17th

**CTRC Coordinator Orientation** Coordinators or other members of research teams, who have not previously utilized the CTRC or who haven't used the CTRC (formerly the GCRC) in the last couple of years should attend this class. The class is also helpful to those who wish to get caught up on any changes that are occurring with our hours, fees, or procedures. Held from 2:00 PM - 3:00 PM in GCRC Conference Room. To register: [http://cfx.research.unc.edu/res\\_classreg/browse\\_single.cfm?New=1&event\\_id=22287](http://cfx.research.unc.edu/res_classreg/browse_single.cfm?New=1&event_id=22287)

### December 22<sup>nd</sup>

**Laboratory Animal Coordinator Lecture** The Laboratory Animal Coordinator (LAC) Lecture orients newly appointed Coordinators to the duties and responsibilities of being a LAC. This lecture is mandatory for all newly appointed LAC's. Principal Investigators are also encouraged to attend. Class size is extremely limited, so ONLY newly appointed LAC's or PI's are invited to attend. Please do not register for this class unless you have spoken with a member of the Compliance Team with the Office of Animal Care and Use, 966-5569. Held from 10:00 AM - 10:45 AM in 148 Glaxo. To register: [http://cfx.research.unc.edu/res\\_classreg/browse\\_single.cfm?New=1&event\\_id=22241](http://cfx.research.unc.edu/res_classreg/browse_single.cfm?New=1&event_id=22241)

**Mandatory Breeding Policy Lecture** This course is mandatory for all Principal Investigators, Laboratory Animal Coordinators and mouse handlers with breeding colonies at UNC. The one hour lecture reviews the Institutional policy concerning cage population densities, housing and breeding mice. Held from 11:00 AM - 12:00 PM in 148 Glaxo. To register: [http://cfx.research.unc.edu/res\\_classreg/browse\\_single.cfm?New=1&event\\_id=22242](http://cfx.research.unc.edu/res_classreg/browse_single.cfm?New=1&event_id=22242)