

# BRAIN WAVES

## WELCOME, NEW GRADUATE STUDENTS

VOLUME 6, ISSUE 5  
AUGUST 7, 2009

Please welcome our new class of graduate students for 2009! James Sonne will be joining the lab of Dr. Don Gash. Erin Morgart will be joining the lab of Dr. Paul Glaser. Ranjana Singh will be joining the lab of Dr. James Geddes. Darren Miller will be joining the lab of Dr. Edward Hall. We are looking forward to their future research projects and watching them develop as professionals.



James Sonne



Erin Morgart



Ranjana Singh



Darren Miller



DON MARSHALL GASH, PH.D.  
CHAIR,  
ANATOMY & NEUROBIOLOGY

## WELCOME, IBS STUDENTS

With the coming Fall Semester, we welcome new graduate students from the IBS Program as they rotate through our various laboratories. They will join the graduate students currently in our program, and the scores of previous students who have successfully earned their degrees and have moved on to the next stages of their careers.

Graduate and Postdoctoral training lies at the core of our profession. For faculty, the commitment to training the next generation of scientists and teachers is vital – and requires our best efforts. For students, the path to success is difficult and most challenging. Unfortunately, some will fall by the wayside. For to be a student is to simultaneously live in two worlds; it is both the best of times and the worst of times!

The best of times are many, including youth, intellectual freedom and opportunity. The freedom to think and the opportunity to explore are essential for scientific creativity. These educational principles must be protected and remain an integral component of our life. Many of the most important breakthroughs in science have been made by young investigators. Jim Watson was a postdoctoral fellow when he co-discovered the paired helical structure of DNA. Jonas Salk was 33 years old when began his seminal research that led to the development of the polio vaccine.

And, as all who have survived their student days know, there are the occasional worst of times. Courses can be tedious and exams unfair. Months of research with all of the accompanying hard work can end in a failed experiment. Critics abound and the criticism of one's research can be intense. The anonymous reviewers of manuscripts and grant applications can assume the form of tormentors, raising patently unfair criticisms.

To survive and succeed in our profession, one has to possess an overriding love for learning and a strong work ethic. Integrity, ingenuity, insight and persistence are essential for success. The successes in research and in teaching should be fully enjoyed and appreciated. The vexations have to be met as a student, and then as a professional. Science can be an enormously rewarding career, but only for those up to the challenge.

~ Dr. Don Gash, Chair

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### SPECIAL POINTS OF INTEREST:

The Next Faculty Meeting is Friday-September 11, 2009 at 12pm in the Markey Cancer Center Boardroom.

## FROM THE DIRECTOR OF GRADUATE STUDIES



**Dr. Jane Joseph**  
 Director of Graduate  
 Studies (DGS)

I am delighted to welcome the incoming IBS students to the department of Anatomy and Neurobiology. As the new Director of Graduate Studies (DGS) for our department, together with Dr. Diane Snow, the Associate Director of Graduate Studies, we look forward to helping you discover everything that our department has to offer.

We have been one of the top ranked Anatomy departments in the nation with regard to external support such as funding from the National Institutes of Health. In addition, in 2007, the department achieved a ranking of 3<sup>rd</sup> in the nation of all Anatomy departments in terms of faculty productivity, as reported in the *Chronicle of Higher Education*. Our graduate students are an integral force in achieving such rankings by contributing to publications and grants.

Our neuroscience research interests run the gamut of topic and technique, from nanotechnology, to cellular/molecular approaches, to behavioral/cognitive and systems neuroscience. The research resources available to our graduate students are numerous and diverse. In addition, our commitment to education is evidenced by our strong teaching role in the medical center and our continued national prominence as leaders in educational technology development.

Importantly, our support staff is critical in helping the department accomplish its research, teaching and service missions for the university. You will find that the staff are always helpful and make many of the administrative details of graduate school bearable.

We hope that you will enjoy your exploration of our department and know that you will feel the same pride that we do in being a part of the UK College of Medicine no matter which department you eventually join.



**Dr. Diane Snow**  
 Associate DGS

## IBS EXPERIENCES



~ **Meagan Littrell**

I joined the Department of Anatomy and Neurobiology in 2007 after completing the IBS program. My decision to join this was largely determined by my interest in neuroscience and a specific laboratory in the department. The department provides numerous opportunities for graduate students ranging from professional development tools to summer cook-outs and holiday parties. Anatomy and Neurobiology faculty host workshops of numerous topics including: job selection and interviewing, putting together your CV, and grant writing. Often these workshops are highly interactive and tailored to meet a student's needs. For example, specific concerns about statistical analysis of a complex data set may be addressed in an upcoming statistical course which supplements the general biological statistics course taken in the second year. Faculty members are available to advise students on many aspects of their dissertation work and career in general. Also, numerous opportunities to apply for outside funding are made available to students for which students are encouraged to apply. Although department faculty are largely well-funded, this exercise benefits the student in preparation for a career as an independent researcher.

## ADVICE FROM NEW ANATOMY GRADUATE STUDENTS



Looking back on the IBS year, my advice is to study in advance. There's too much material that needs to be memorized to cram it the week of the exam and too little time between the different classes' exams. If you give up your weeknights to studying, you'll have your weekends free. ~ **James Sonne**

In your first year, the courses are extremely important. If you don't do well in class, your rotations are going to be pointless. Your rotation PI's should understand this and be supportive. ~ **Erin Morgart**



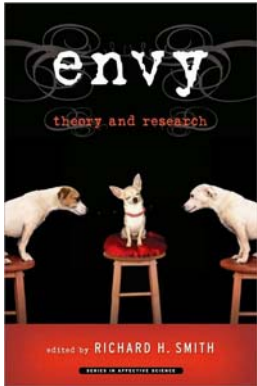
Going to classes and listening to lectures carefully helped me the most. Almost all the questions on exams will be from what professors have talked about in the class. The key to successful IBS year is Hard Work. Good Luck!! ~ **Ranjana Singh**

Be diligent in preparing for research rotation interviews. Be sure to determine what your goals are for each rotation. Choose wisely and make an effort to identify strengths and weaknesses of each potential rotation lab. Even if you do not end up joining that lab, you will gain valuable experience and contacts that will benefit you later on. ~ **Darren Miller**



## PROFESSIONAL ANNOUNCEMENTS

### PUBLICATIONS



Hosseini, AH, J Lifshitz. Brain Injury Forces of Moderate Magnitude Elicit the Fencing Response. *Medicine & Science in Sports & Exercise* (in press, 2009).

J Lifshitz.. Neurological Dysfunction After Brain Injury Arises From New Circuits Formed During Repair. *Jockeys' Guild News*. 2:2, 2009.

Beaumont E, Whitaker CM, Burke DA, Hetman M, Onifer SM. Effects of Rolipram on Adult Rat Oligodendrocytes and Functional Recovery after Contusive Cervical Spinal Cord Injury. *Neuroscience*, in press, 2009.

### ANNOUNCEMENTS



We would like to congratulate **Jordan Clark**, who successfully defended on July 15, 2009. Dr. Clark will be a post-doc in Houston, TX. Great job, Dr.

Clark!!

Congratulations to **April Richardson**, who successfully defended her thesis on July 30, 2009. Dr. Richardson will continue in her current faculty position in our department. We wish you the best in your teaching career!



### ANNOUNCEMENTS

As of July 1, 2009, the prices of ID badges increased in price. Below are the new fees:

- New ID: \$14.00
- Replacement ID: \$10.00
- Lost ID: \$28.00
- Temp ID: \$2.00
- Clips: \$ .50

If you have any questions please contact:

Merna Brown, UK Hospital Security  
 RM: H105, Phone: 323-6946  
 Email: [mshaba2@email.uky.edu](mailto:mshaba2@email.uky.edu)

**Trip Manager** will be replaced by **Cliqbook** beginning September 30, 2009. Many users will not need structured training to use the system but if you wish to attend a training class, please register at the [HRD Training & Development Calendar](#). To learn all about the UK Travel Program, you can also register for these classes as well. Both classes are scheduled for the following dates for the remainder of the year: August 11, 12, 20, 21, 28; September 15, 16, 23, 24; October 16, 30; November 13; and December 18.

**Dr. Alan Daugherty**, who became the new Senior Associate Dean of Research in the College of Medicine as of May 1, has taken over signing duties for IAFs and COI forms for the COM. Susan Stark and the other College Grants Officers (CGO's) will be coordinating with Deborah Reining to get deliveries made back and forth between the Leader Bldg. and BBSRB (where his office is located) each day at 10 a.m. and 3 p.m. He will be looking for CGO initials on documents, so still deliver items to them in the Leader Bldg.; please do not deliver grant internal paperwork to him directly.

Be sure to check the OSPA website for updated Internal Approval Forms (IAF) and Conflict of Interest Forms (COI): <http://www.research.uky.edu/ospa/>

### PRESENTATIONS

**Dr. Jennifer Brueckner** had three presentations at the recent 26<sup>th</sup> annual meeting of the American Association of Anatomists conference in Cleveland, OH on July 14-18, 2009.

- Platform presentation at the Educational Affairs Symposium entitled *"Engaging Millennial Learners through Team Based Learning"*
- Platform presentation entitled "Mastering structural and developmental anatomy through Kirigami." Co-authors were medical students Lisa Purdy and Cady Blackey.
- Poster presentation entitled "Using the FISH business model to motivate the millennial generation in the anatomy classroom." Co-authors were Dr. Donna Weber and Steve Evans.

On Friday July 31, 2009 **Dr. Andrew Deane** presented the talk: "Before humans: Miocene fossil apes and the origin of the human lineage" at the Kentucky Paleontological Society monthly meeting.

**The purpose of learning  
 is growth. and our  
 minds. unlike our  
 bodies. can continue  
 growing as we  
 continue to live.  
 ~Mortimer Adler~**

## DEPARTMENTAL BIRTHDAYS

Eric Forman ~ 7/1

Dr. Ravi Akundi ~ 7/2

Garretson Epperly ~ 7/2

Dr. Pamela Stein ~ 7/9

Andrew Sauerbeck ~ 7/15

Dr. Zhiming Zhang ~ 7/28

Dr. Peter Hardy ~ 7/30



Avalon Sandoval ~ 8/10

Dr. Luke Bradley ~ 8/14

Dr. Anders Andersen ~ 8/14

Dr. Don Gash ~ 8/27

Kristen Kelps ~ 8/27

Erin Morgart ~ 8/28

## EMPLOYEE OF THE QUARTER

## COMINGS AND GOINGS



**THE EMPLOYEE OF  
THE  
QUARTER  
COMMITTEE NEEDS  
YOUR  
NOMINATIONS FOR  
EMPLOYEE OF  
THE THIRD QUARTER !!**



**Please submit your  
nominations to either**

**Angel Schumacher ([aschu3@email.uky.edu](mailto:aschu3@email.uky.edu))**

**or**

**Dalene Rice ([darice2@email.uky.edu](mailto:darice2@email.uky.edu))**

**The nomination form is located on the following page.**



This month Dr. Don Gash's lab bid farewell to **Jenny Payette** who moved to Knoxville, TN to attend veterinary school at the University of TN, Knoxville. We will miss you, Jenny,

but wish you the best of luck with your future career!

Please welcome **Daisy Ramos** to Dr. Don Gash's Lab! She will be performing histology for the lab along with a number of other responsibilities. We are happy to have you in the lab, Daisy!

We would like to also welcome **Chelsie Benca** to Dr. Jane Joseph's lab. Chelsie will be working with Christine Corbly, Dr. Joseph's Research Analyst in her studies with human participants. Welcome, Chelsie!

# Employee of the Quarter Nomination Form

The Quarterly Employee Awards are will be announced in May (for nominations submitted January through March); August (April through June); October (July through September) and December (October through December). The Employee of the Year Award will be selected from the winners throughout the year and will be announced the following January.

**Please submit nominations to Angel Schumacher or Dalene Rice ASAP.**

When considering someone for the award, think of the individual who has made your job easier or assisted you in performing your job. To complete the nominations please complete the following questions. Use additional paper or the back of this if necessary.

Date: \_\_\_\_\_ Candidate: \_\_\_\_\_

Nominator: \_\_\_\_\_

Is this individual a regular full-time employee in the Department of Anatomy & Neurobiology? \_\_\_\_\_ Yes \_\_\_\_\_ No

1. What attributes or actions make this individual worthy of your nomination? Give examples.

2. How is this individual an asset to the Department of Anatomy & Neurobiology? Give examples.

3. How have you seen this individual contribute to the UK and/or greater community? Give examples.

4. With 1 = average and 5 = outstanding, please rank the nominee in the following areas:

Quality of work: 1 2 3 4 5

Attitude toward performing job duties: 1 2 3 4 5

Problem solving skills: 1 2 3 4 5

Willingness to help others: 1 2 3 4 5

Service to the department/university: 1 2 3 4 5

## ANATOMY & NEUROBIOLOGY

MN 225 MEDICAL SCIENCES BUILDING  
LEXINGTON, KY 40536-0298  
PHONE: 859-323-5155 FAX: 859-257-6700  
<http://www.mc.uky.edu/neurobiology/>

Please send comments & submissions to Avalon Sandoval at [avalon.sandoval@uky.edu](mailto:avalon.sandoval@uky.edu) or call 859-257-5036.

**The Next Deadline is August 24, 2009**

## AVAILABLE TRAINING

### TRAINING FOR THE LABS

The University requires safety training classes to be completed before beginning certain types of work. The requirements apply to all individuals involved in the covered work, including faculty, staff, students, postdoctoral scholars and fellows, visiting researchers and volunteers. To find out what classes you need to take, consult the [Training Checklist](#).

**NOTE:** Anyone who works with chemicals in a laboratory **must** complete the following three classes: **Chemical Hygiene Plan/Laboratory Safety**, **Hazardous Waste**, and **Fire Extinguisher Use**.

**Chemical Hygiene Plan/Lab Safety**  
This class is available [online](#).

**Bloodborne Pathogens** This class is available upon request and [online](#).

**Hazardous Waste** This class is available [online](#).

**Initial Radiation Safety:** Initial Radiation Safety (~ 15 minutes total) is offered every day at 1:30 pm at the Radiation Safety Office, 102 Animal Pathology Building (other times can be arranged). You must bring two completed forms with you: On-Site Radiation Safety Training Form and Radiation Worker Registration Form, both signed by your Authorized User or unit supervisor. If you have questions, contact Tracy Cayson at 323-6777.

**Basic Radiation Safety** You may register by contacting Erica Ray at (859) 323-6276.

**Advanced Radiation Safety** is only available [online](#).

**Fire Extinguisher Use** is available [online](#).

**NOTE:** [Online courses can only be taken using a UK computer.](#)

**Corporate Compliance** training is **MANDATORY** for employees working in the UK hospital or medical center. All HR Temporary Employment employees are required to view the Corporate Compliance video in orientation. For more information, please visit the UK [Corporate Compliance Program](#) website.

**Preventing Sexual Harassment** is also a **MANDATORY** training. This training can be done online at (<http://training.newmedialearning.com/psh/ukentucky/index.htm>). Remember to print your certificate when complete; sign it and turn it in to Dalene Rice (305 Whitney-Hendrickson) to be placed in your personnel file.

Ignoring these **MANDATORY** trainings can result in dismissal from employment at the University of Kentucky

### HUMAN RESOURCES DEVELOPMENT COURSE OFFERINGS

<http://hr.uky.edu/TandD/welcome.php>

- 8-17 ~ Choosing and Using Quality Improvement Tools
- 8-18 ~ Communicating Across Cultures
- 8-18 ~ PowerPoint Level 2: Creating Engaging Presentations
- 8-19 ~ Group Problem Solving
- 8-19 ~ HTML 1: Basic Coding
- 8-20 ~ Cliqbook
- 8-20 ~ Principles of Effective Writing
- 8-20 ~ Excel 2007: Pivot Tables
- 8-27 ~ Communicating with Success
- 8-28 ~ Developing a Winning Image
- 9-08 ~ Providing Exceptional Customer Service
- 9-09 ~ Building a Climate of Trust
- 9-09 ~ Publisher 2007: Introduction
- 9-10 ~ Resolving Workplace Conflict
- 9-16 ~ Thinking Critically



*All the world is a  
laboratory  
to the inquiring mind.  
~ Martin H. Fischer ~*