

BRAIN WAVES

Volume 2, Issue 9
October 3, 2005

Morris K. Udall Center Refunded

NINDS has awarded \$6 million over 5 years to the Morris K. Udall Parkinson's Disease (PD) Research Center of Excellence to study GDNF as a potential therapy for PD. Dr. Gerhardt is the PI and Dr. Gash is the Co-PI of one of the 12 NINDS recognized Centers of Excellence in the US. This funding will likely help the Udall Center resolve some of the issues affecting GDNF as a viable therapeutic for treating Parkinson's disease. Ongoing work will look at dosing and distribution of GDNF delivery and a new animal model for PD. The Udall Center involves the work of over 30 people from the labs of Drs. Gerhardt, Gash, Zhang and others in the Department of Anatomy and Neurobiology and affiliated departments.— **Pete Huettl, Assistant Director, Udall Center**



Don M. Gash, PhD, Chairman,
Anatomy & Neurobiology,
Director MRISC

New Program Project Grant Awarded

A new P01 award for \$5.18 M has been awarded to Drs. Kurt Hauser, Pamela Knapp and Annadora Bruce-Keller in our department to study how drug abuse exacerbates neuro-AIDS. The program project is directed by Kurt Hauser, and co-directed by Pamela Knapp. Additionally, the grant includes faculty in the College of Public Health and Center on Aging, as well as translational research subcontracts at the Johns Hopkins Medical Institute and the Medical University of South Carolina. The grant will use state-of-the-art molecular and cell biological approaches to study the mechanism underlying the neuroimmune and neurodegenerative causes of HIV encephalitis. Intracellular and intercellular signaling mechanisms will be assessed in three unique murine models that are inoculated with or induced to express components of human HIV.

Reminder: Team in Training Donations!

Ashley Walton, Theresa Currier Thomas and Janelle Reed have each signed on with The Leukemia & Lymphoma Society's Team In Training, which is the world's largest endurance sports training program. The program provides training to run or walk a whole or half marathon or participate in an Olympic distance triathlon. In addition to training for their event, each gal has pledged to raise a minimum of \$3,800 for The Leukemia & Lymphoma Society to aid leukemia, lymphoma and myeloma research and patient services. Please help them reach their personal and fund raising goals by donating to The Leukemia and Lymphoma Society by writing a check to and putting it in a campus mail envelope (with the label at the bottom of this article) or put it



in a special drop box located in the Anatomy business office (MN224). Alternatively, feel free to give any of the gals a call and they will gladly come to your office and pick up your check. Your tax-deductible donation can make a difference in the quality of life of those afflicted with leukemia, lymphoma, myeloma and other blood-related diseases!

Anatomy Gals Team in Training c/o Angel
MN224 UKMC 0298

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Special points of interest:

The Faculty Meeting is scheduled for Friday, October 14 at Noon in MN 136.

The October Mixer "Gathering of Ghouls" by Dr. Jinhui Chen's Lab will be held Oct. 28 from 3-5pm in the 3rd Floor BBSRB north break room.

Professional Announcements

Publications

Pamela S. Stein, Sandra D. Challman & **Jennifer K. Brueckner**. Utilizing Audience Response Technology for Reviews in an Undergraduate Nursing Course. *Journal of Nursing Education*, In Press.

Hauser, K.F., J.V. Aldrich, K.J. Anderson, G. Bakalkin, M.J. Christie, E.D. Hall, **P.E. Knapp**, **S.W. Scheff**, I.N. Singh, B. Vissel, A.S. Woods, T. Yakovleva, T.S. Shippenberg. 2005. Pathobiology of dynorphins in trauma and disease, *Frontiers in Bioscience*, 10:216-235.

El-Hage, N., J.A. Gurwell, I.N. Singh, **P.E. Knapp**, A. Nath, and **K.F. Hauser**. 2005. Synergistic increases in intracellular Ca²⁺, and the release of MCP-1, RANTES, and IL-6 by astrocytes treated with opiates and HIV-1 Tat, *Glia*, 50: 91-106.



Yang, J., B. Houk, J. Shah, **K.F. Hauser**, Y. Luo, **P.E. Schauwecker**, G.M. Smith, and Barnes, G.N.. 2005. Genetic background regulates semaphorin gene expression and epileptogenesis in mouse brain after kainic acid status epilepticus. *Neuroscience*, 131: 8 5 3 - 8 6 9 .

Marinova, Z., V. Vukojevic, S. Surcheva, T. Yakovleva, G. Cebers, A. Pramanik, N. Pasikova, I. Usynin, L. Hugonin, F. Weijie, M. Hallberg, D. Hirschberg, T. Bergman, **K.F. Hauser**, J.V. Aldrich, A. Gräslund, L. Terenius, and G. Bakalkin. 2005. Translocation of dynorphins into cells and their accumulation in the cytoplasm, *J. Biol. Chem.*, 280: 26,360-26,370.

Singh, I.N., **N. El-Hage**, M.E. Campbell, S.E. Lutz, **P.E. Knapp**, A. Nath, and **K.F. Hauser**. 2005. Differential involvement of p38 and JNK MAP kinases in HIV-1 Tat and gp120-induced apoptosis in striatal neurons, *Neuroscience*, in press (Aug. 17 Epub).

Publications

El-Hage, N., G. Wu, J. Wang, J. Ambati, **P.E. Knapp**, J.L. Reed, **A.J. Bruce-Keller**, and **K.F. Hauser**. 2005. HIV Tat1-72 and Opiate-induced changes in astrocytes promote chemotaxis of microglia through the expression by MCP-1 and alternative chemokines. *Glia*, in press (Oct. 3 Epub).

Hauser, K.F., **N. El-Hage**, **S. Buch**, J.R. Berger, W.R. Tyor, A. Nath, **A.J. Bruce-Keller** and **P.E. Knapp**. 2005. Molecular Targets of Opiate Drug Abuse in NeuroAIDS. Neurotoxicity Research, (special addition on neuroAIDS) in press (Oct. 15 Epub).

Rutherford E, **Pomerleau FP**, Strömberg P, Johnson KW, and **Gerhardt GA**. Second-by-second Recordings of L-Glutamate Due to Stress in the Striatum and Prefrontal Cortex of Unanesthetized Rats. *Neuropharmacology*, Volume 49, Supplement No. 1 (2005) pp270.

News/Awards

Kevin Hascup passed his qualifying exams on September 14. Congratulations, Kevin!

Dr. Jennifer Brueckner won the **Silver Pointer Award** - recognizing who the first year medical class felt was the best instructor during their first year - for the second year in a row. The students pointed out her ability to clarify difficult/complicated material and her ability and desire to help them do their best.

Laurie Davis passed her qualifying exams on September 20. Be sure to congratulate Laurie when you see her!

ANA 814 (Medical Gross Anatomy) won the **Silver Podium** award for the 2nd year in a row. This award recognizes what the first year medical students feel was their best learning experience during their first year. Faculty participants in the course are **Drs. Bruce Maley** (Director), **Jennifer Brueckner**, **Doug Gould**, **Wayne Cass** and **Pam Stein**.

Yiqin Xiong passed her qualifying exams on September 28. Good Job, Yiqin!

News/Awards

Theresa Currier-Thomas passed her qualifying exams on September 28. Congratulations on a job well done, Theresa!

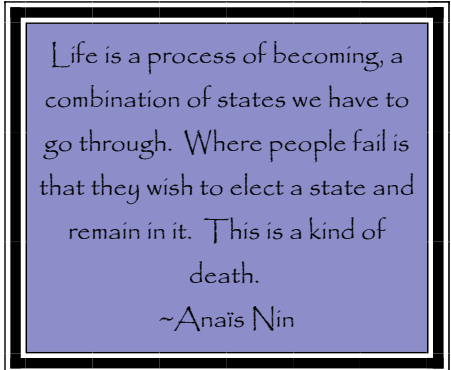
Jeremiah Gates passed his qualifying exams on September 30. Jeremiah, congratulations on your success!

Presentations

Dr. Marilyn Duncan recently presented "Effect of aging on circadian rhythms: Role of changes in the serotonergic system", at the 4TH Asian-Pacific International Congress of Anatomists, in Kusadasi, Turkey, on September 8, 2005.

Drs. Pamela Knapp and Anna Bruce-Keller are organizing and chairing a session entitled "Estrogen: It's not just for reproduction anymore" at the 4th Great Lakes Glia Conference in Traverse City, MI, Oct 8-10. This is a semi-annual conference hosted by Wayne State University and the Case Western Reserve University/Cleveland Clinic Foundation.

Erin Rutherford and **François Pomerleau** presented the posters "Second-by-second Recordings of L-Glutamate Due to Stress in the Striatum and Prefrontal Cortex of Unanesthetized Rats" and "Second-by-second measurements of Metabotropic and Ionotropic Glutamate Receptor Modulation of Glutamate Release in the CNS" at the 5th International Meeting on Metabotropic Glutamate Receptors. Taormina,



Faculty Meeting Highlights

- ◆ The department will be holding lunches with 3-4 faculty members per lunch to discuss with Dr. Gash concerns and developments in the department. Please be sure to specify any dietary needs you may have. Previous lunches have been successful in developing programs such as the Wethington Teaching Awards.
- ◆ The recruitment process will be streamlined this year in order to obtain the best faculty candidates we can. Dr. Gash will be pre-screening candidates to see if they are a good match for the department. Then he will only forward the promising candidates to faculty members with similar research interests for decisions. He would like everyone to provide a “yes,” “no” or “maybe” on the candidate within 5 working days. The candidates will be informed of their application status after these decisions have been made. A working committee tailored to the interests of the candidate will be formed for the preliminary campus visit.
- ◆ SAP training is ongoing across the campus. The financial system is live beginning this month. FRS will no longer be used after October 1. Any DAV’s or travel vouchers submitted after September 19 will not be processed before October. This will undoubtedly create a backlog of pending payments. Please be patient as accounts payable processes these. Procards will also be moved to SAP in October, however the system for posting to accounts is still in development. We hope that this will not create any additional problems.
- ◆ The departmental courses are proceeding well this semester, many with record enrollment.
- ◆ The faculty will be able to give personal feedback to the graduate students via the new seminar evaluation form being developed by the Graduate Committee.
- ◆ A bi-annual financial workshop with Accounts Payable and the Graduate School is in development for the graduate students in order to clarify how they are paid and the general operations of the grant and university system.
- ◆ The annual Aging Symposium on Mitochondria will be hosted by the graduate students on Thursday October 20 at the W.T. Young Library auditorium.

The William H. Knisely Award



The Knisely Award goes to the medical student who has the highest grade point average from all the first year Anatomy and Neurobiology courses which are Gross Anatomy, Histology, and Neuroscience. This year’s recipient is Matthew Maxwell, a second-year medical student.

He was among several students who were recently honored by the University of Kentucky College of Medicine at the Academic Convocation and Awards Day for their outstanding scholastic and community service achievements. The awards ceremony acknowledges the accomplishments of the previous year and encourages even greater success in the new academic year.

Snow in September: Come as You Aren't Party!

Intrigue was the name of the game. Who are you was the question of the day...People had a delightful time trying to guess each other's "secret identities" in one of the most mind challenging mixers yet! Are you female? Are you dead? Are you real? Everywhere you turned people were interrogating each other. Now and again someone would giggle with glee as they guessed correctly for a point. Ashley Walton and Naomi Carter from Dr. Gash's lab were the big winners as they interrogated the most people correctly.



Departmental Birthdays Comings and Goings

10/04 ~ Becca Haggard

10/16 ~ George Quintero

10/23 Jeremiah Gates



Please welcome **Julie Quinn** to the Anatomy & Neurobiology Business Office. She moved to Lexington in September 2005 so that her husband could attend graduate school at UK. She has lived in Bedford, Indiana her whole life, graduated from Vincennes University with a business degree and has worked in banking for the past 18 years, most recently as a mortgage loan officer. Her hobbies include running, cycling, hiking, and gardening.



We would also like to welcome **Kathleen Donoghue** to Dr. Marilyn Duncan's lab. She will be working as a laboratory technician.

2005 Mixer Themes

January—Admin Staff "Chocolate Paradise"

February— None

March—Joseph Lab "Mad Hatter"

April— Bing Lab & Admin Staff "Experience Asia"

May—Gash Lab "High Roller's Club"

June—MacPherson/Ginn "Cookout"

July—Keller Lab "Dessert Your Work"

August—Gerhardt Lab "Summer Surprise"

September—Snow Lab "Snow in September: Come as You Aren't Party"

October— Chen Lab "Gathering of Ghouls"

November—Teaching Faculty

December—Departmental Holiday Potluck



Who is going to challenge the Gerhardt Lab for the trophy this year?

Employee of the Quarter Nomination Form

The Quarterly Employee Awards are announced in April (for nominations submitted January through March); July (April through June); October (July through September) and December (October through December). The Employee of the Year Award will be selected from all nominations throughout the year and will be announced annually at the January Mixer. **Due to Julie Poole or Angel Schumacher by December 19, 2005.**

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

Submit to Julie Poole in 305 Whitney Hendrickson Bldg, 0098 Phone: 323-5242

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 asand1@email.uky.edu or call 859-257-5036.

The Next Deadline is October 24, 2005

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, postdocs, 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

10/17...Monday...1-4p...NURS214

11/16...Wednesday...9a-12p...NURS214

12/08...Thursday...1-4p...NURS214

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 a **MANDATORY** training for all individuals who receive a paycheck from the UK Medical Center. It is only offered from 3:00–3:30 p.m. during the UK Hospital Orientation. Ignoring this requirement can result in dismissal from employment at the University of Kentucky.

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 to be placed in your personnel file.

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

10/10 ~ Leading Effective Teams

10/17 ~ Teamwork in a Changing Work place

10/18 ~ Communicating Multi-Culturally

10/21 ~ Creating Trustful Relationships

10/25 ~ Critical Thinking

10/27 ~ Managing Staff Conflict

10/28 ~ Group Problem Solving

11/01 ~ Presenting Effectively—Day 1

11/07 ~ Mediating Workplace Conflicts

11/08 ~ Presenting Effectively—Day 2

11/10 ~ Facing the Challenge of Change

11/10 ~ Trip Manager

11/18 ~ Personality Differences

12/01 ~ Facing the Challenge of Change

12/06 ~ Personal Decision Making

12/08 ~ Facilitating Meetings and Teams

12/13 ~ Principles of Effective Writing

12/15 ~ Developing a Winning Image

Human Resources

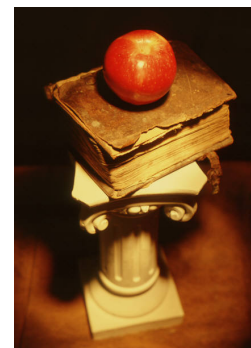
Development course offerings

<http://www.uky.edu/HR/HRD/>

<http://www.uky.edu/HR/HRD/Training/>

10/04 ~ Business Etiquette

10/07 ~ Facing the Challenge of Change



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