

BRAIN WAVES

Volume 3, Issue 2
March 1, 2006

MIXER RE-MIX

I would like to take the opportunity to thank all the labs and groups that have put together monthly mixers over the past few years.

However, due to waning interest in the mixer format, I have decided to consolidate them into larger scale events for the whole department, their significant others and their families.

I would like to hold seasonal events (Spring, Summer, Fall and Winter) that allow us to remove ourselves from the work environment to truly get to know each other and foster new friendships among our department's faculty, staff, students and families.

~ Dr. Don Gash



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

EMPLOYEE OF THE YEAR

Congratulations to **Angel Schumacher** who was chosen as Employee of the Fourth Quarter and Employee of the Year for 2005!

Angel always provides a helping hand and delightful attitude for faculty, students and staff. She has proved to be an asset to our department that we should all value highly. Angel always takes wonderful care of the graduate students and anyone who needs her.

We are all very proud you, Angel!



MIXER OF THE YEAR

The **Gash Lab** will definitely be High Rollers after receiving the final **Best Mixer of the Year** award, (until we have monthly mixers once more.)

Gash Vegas was filled with wild gambling and big winners— just ask Dr. Bing!



Well done, Gash Lab and special guest star Elvis!!

Inside this issue:

Conference on RNA Therapy	2
Professional Announcements	3
Coming and Goings	4
Employee of the Quarter	5
Available Training	6

Special points of interest:

- Faculty Meeting is scheduled for Friday, March 10 10 at Noon in MN 136.
- Neuroscience Day is Monday March 13. It will be held at the Lexington Convention Center downtown next to Hyatt Regency Hotel.
- We need your nominations for Employee of the Quarter. See Page 5.



**LEXINGTON CONFERENCE
ON
RNA THERAPY
FOR
NEURODEGENERATIVE DISEASES**

THURSDAY, APRIL 13, 2006

8:00-5:00PM

(CONTINENTAL BREAKFAST AT 7:30AM, RECEPTION AT 5:15PM)

AT

THE RADISSON PLAZA HOTEL

LIMITED FREE REGISTRATION REQUIRED

**POSTER SESSION ABSTRACTS AND REGISTRATION
DUE MONDAY, MARCH 27, 2006**

**MONETARY PRIZES FOR BEST POSTER
(STUDENT, STAFF AND POST-DOCTORAL ONLY)**

**SEND ABSTRACTS AND REGISTRATION REQUESTS TO
AVALON SANDOVAL AT ASAND1@EMAIL.UKY.EDU**

FEATURED SPEAKERS

(SUBJECT TO CHANGE)

DR. DEEPAK THAKKER, MEDTRONIC INC.

DR. PETER NELSON, UNIVERSITY OF PENNSYLVANIA

DR. PAMELA KNAPP, UNIVERSITY OF KENTUCKY

DR. MOHAN SAPRU, NORTHWESTERN UNIVERSITY

DR. SCOTT HARPER, UNIVERSITY OF IOWA

DR. PAMELA PAVCO, SIRNA THERAPEUTICS

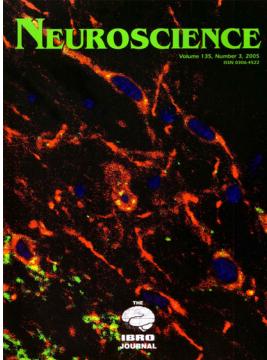
DR. ELIEZER MASLIAH, UNIVERSITY OF CALIFORNIA - SAN DIEGO

DR. RICHARD SMITH, SCRIPPS RESEARCH INSTITUTE

Professional Announcements

Publications

Dey, S., Mactutus, C. F., Booze, R. M., Snow, D. M. Specificity of Prenatal Cocaine on Inhibition of Locus Coeruleus Neurite Outgrowth. *Neuroscience* - accepted 2006.



Chebrolu H, Slevin JT, Gash DM, Gerhardt GA, Young B, Given CA, Smith CD. MRI volumetric and intensity analysis of the cerebellum in Parkinson's disease patients infused with glial-derived neurotrophic factor (GDNF). *Exp Neurol*. 2006 Jan 30.

Knoch, M.E., D. Siegel, M.J. Duncan, and J. D. Glass (2006) Serotonergic mediation of constant light-potentiated nonphotic phase-shifting of the circadian locomotor activity rhythm in Syrian hamsters. *Am. J. Physiol. Regul. Integr. Comp. Physiol.*, in press

Mei Liu, Anyang Sun, Eun-Joo Shin, Xianxi Liu, Sang-Geon Kim, Cecil R. Runyons, William Markesbery, and Hyoung-Chun Kim, Guoying Bing. Expression of microsomal epoxide hydrolase is elevated in Alzheimer's hippocampus and induced by exogenous β -amyloid and trimethyl-tin. *European Journal of Neuroscience*. (in press)

Brown MR, Sullivan PG, and Geddes JW. Synaptic mitochondria are more susceptible to Ca^{2+} overload than non-synaptic mitochondria. (*J. Biol. Chem.* In press)

Glaser PE, Surgener SP, Grondin R, Gash CR, Palmer M, Castellanos FX, Gerhardt GA. Cerebellar neurotransmission in attention-deficit/hyperactivity disorder: Does dopamine neurotransmission occur in the cerebellar vermis? *J Neurosci Methods*. 2006 Feb 15;151(1):62-67. Epub 2006 Jan 31.

Publications

Day BK, Pomerleau F, Burmeister JJ, Huettl P, Gerhardt GA. Microelectrode array studies of basal and potassium-evoked release of l-glutamate in the anesthetized rat brain. *J Neurochem*. 2006 Jan 25.

Castellanos FX, Glaser PE, Gerhardt GA. Towards a neuroscience of attention-deficit/hyperactivity disorder: Fractionating the phenotype. *J Neurosci Methods*. 2006 Feb 15;151(1):1-4. Epub 2006 Jan 19.

Ding Q, Dimayuga E, Keller JN. Proteasome regulation of oxidative stress in aging and age-related diseases of the CNS. *Antioxid Redox Signal*. 2006 Jan-Feb;8(1-2):163-72.

Ding Q, Martin S, Dimayuga E, Bruce-Keller AJ, Keller JN. LMP2 Knock-Out Mice Have Reduced Proteasome Activities and Increased Levels of Oxidatively Damaged Proteins. *Antioxid Redox Signal*. 2006 Jan-Feb;8(1-2):130-5.

Keller JN. The many nuances of oxidative stress and proteolysis. *Antioxid Redox Signal*. 2006 Jan-Feb;8(1-2):119-20.

Mohammad Abdul H, Sultana R, Keller JN, St Clair DK, Markesbery WR, Butterfield DA. Mutations in amyloid precursor protein and presenilin-1 genes increase the basal oxidative stress in murine neuronal cells and lead to increased sensitivity to oxidative stress mediated by amyloid beta-peptide (1-42), HO and kainic acid: implications for Alzheimer's disease. *J Neurochem*. 2006 Mar;96(5):1322-35.

*There's nothing to writing.
All you do is sit down at a
typewriter and open a vein.
~Walter Wellesley "Red" Smith*

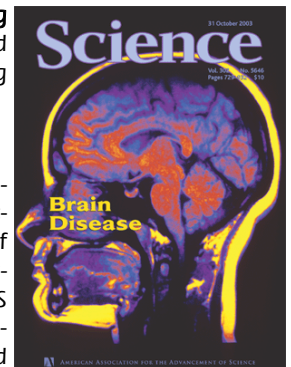
Publications

Butterfield DA, Poon HF, St Clair D, Keller JN, Pierce WM, Klein JB, Markesbery WR. Redox proteomics identification of oxidatively modified hippocampal proteins in mild cognitive impairment: Insights into the development of Alzheimer's disease. *Neurobiol Dis*. 2006 Feb 6

Penn R, Dalvi A, Slevin J, Young B, Gash D, Gerhardt G, Hutchinson M. GDNF in treatment of Parkinson's disease: response to editorial. *The Lancet Neurology*, 5(3): 202-203, 2006.

Presentations

Dr. Greg Gerhardt had the following presentations:



"Second-by-second measurements of neurotransmitters in the CNS by ceramic enzyme-based microelectrode arrays: Technology to determine the neurochemical codes of the brain". DARPA DSRC Neural Basis of Adaptive Behavior in Challenging Situations Workshop 2, Stanford University, Stanford, CA, February 10, 2006.

"Intrapatamenal glial cell-line derived neurotrophic factor (GDNF) as a treatment for Parkinson's disease: Good, bad or placebo?" Physiology and Pharmacology, Oregon Health and Science University, Portland, OR, February 15, 2006.

Review of North American Research on Brain Computer Interfaces: Commentary on Sensor/Signal Processing/Biocompatibility, NSF, Arlington, VA, February 27, 2006.

Departmental Birthdays



MARCH

Kathleen Donoghue ~3/2 Dr. Chunmei Wang ~3/14

Dr. Jadwiga Turchan ~3/6 Dave Peck ~3/18

Bin Xing ~3/7 Dr. Pamela Knapp ~3/23

Dr. Subbu Apparsundaram ~3/7 Aashish Joshi ~3/26

Xuan Nguyen ~3/8 Jen Allen ~3/29

Robin Lindsay ~3/10 Lamin Mbye ~3/30



2006 DEPARTMENT BASHES

All dates TBA

APRIL/MAY—SPRING BBQ

(Shilito Park)

JULY—SUMMER COOKOUT

(Grassy Area behind the HSRB)

OCTOBER—FALL CHILI COOKOFF

(Location TBA)

DECEMBER—WINTER HOLIDAY POTLUCK

(HSRB Atrium)

&

THE ANNUAL HOLIDAY PARTY

(Crown Plaza Campbell House)

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 January (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 Annual Holiday Potluck. **Due to Avalon Sandoval or Julie Quinn March 24, 2006.**

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 Avalon Sandoval in 305 Whitney-Hendrickson, 0098 Phone: 257-5036

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 March 24, 2006

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

March 22	1-4pm	Rm. 214 Nursing
April 25	9a-12pm	Rm. 213 Nursing
May 22	9a-12pm	Rm. 214 Nursing

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

Human Resources

Development course offerings

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

3-16 ~ Trip Manager
 3-16 ~ Trip Program
 3-20 ~ Gender Styles in Leadership
 3-21 ~ Personal Decision Making

- 3-23 ~ 7 Habits of Highly Effective People - Day 1
- 3-24 ~ 7 Habits of Highly Effective People - Day 2
- 3-27 ~ 7 Habits of Highly Effective People - Day 3
- 4-3 ~ Communicating With Success
- 4-6 ~ Principles of Effective Writing
- 4-7 ~ Group Problem Solving
- 4-10 ~ Business Etiquette
- 4-11 ~ Following With Courage and Commitment
- 4-13 ~ Teamwork in a Changing Workplace
- 4-13 ~ Leading Effective Teams



All the world is a laboratory to the inquiring mind.

~Martin H. Fischer