

Department of Cell Biology

Excellence in Scientific Discovery and Education.

Semi - Annual Newsletter

Issue Fall 2007-Winter 2008

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REGULATORY AND POLICY CHANGES/ APPLICATION INFORMATION

(from OSP and agency web pages, university and other sources)

Upcoming NIH Receipt Dates:

R01 (New):	Feb. 5, June 5
R01 (Renewal, Resubmission)	Mar 5, July
R03, R21 (New)	Feb. 16, June 16
R03, R21 (Renewal, Resubmission):	Mar 16, July 16
K Series (New):	Feb 12, June 12
K Series (Renewal Resubmission):	Mar 12, July 12
F Series – All (Individual NRSA):	April 10, August 10

Please note the following internal deadlines: Proposal forms with a draft of the research plan are due to the Medical School 10 working days (2 weeks) ahead of the dates noted above. The final version of the entire grant is due to the OSP electronic drop box 5 working days (1 week) ahead of the dates noted above. Final hard-copies of grants which cannot be approved online are also due to OSP five days ahead of the deadline.

Other Research News

The University has negotiated new rate agreements for F&A (Indirect) Costs which may be charged to research grants by federal agencies. The summary of the new university agreement is that new rates will be charged to grants with project periods beginning effective January 1, 2008. Previously funded grants will remain at the rate used at the beginning of their current project period, usually 53%. Please note that budgets for proposals submitted after January 1, 2008 will reflect the new rate structure which is 54.5% January 1, 2008 – August 31, 2008 and 55% on or after 9/1/2008.

NIH will reduce the "error correction window" (i.e. the time allowed after the submission deadline to address NIH system identified errors/warnings) from five business days to two business days for all electronically submitted grant applications with submission deadlines on or after January 8, 2008.

Just-in-Time (JIT) information can be submitted to NIH online via Commons or under a cover memo. Please note that NIH requires approval by OSP for both. Please contact Linda Jordan when you receive a request for JIT information so that she can assist in gathering and preparing the required documents. To submit via Commons please upload all requested documents and alert the OSP analyst that they are available for review. If IRB and/or IACUC approvals are requested, please forward these letters to OSP. The analyst will suggest revisions, if necessary, and request that the final version be uploaded into Commons. From there OSP staff will route it for approval and electronic signature by an authorized representative in OSP. If the JIT information is to be transmitted under a cover memo, all documents should be sent to our OSP analyst who will work with you and Linda Jordan to develop the final version. The cover letter is prepared by the submitting PI and will be signed by the PI and an authorized representative in OSP. Then OSP will scan and send it by e-mail or fax to the appropriate NIH grants specialist. Please note that if the IRB and/or IACUC approvals are pending, the JIT information must be submitted under a cover memo, as Commons will not accept incomplete JIT information. More information about required JIT documents and the submission process can be found in the December issue of the Research Newsletter which can be accessed using the OSP link below.

The following web sites provide important information regarding electronic submission of NIH grants:

Power Point presentation used for Emory's training classes <http://www.osp.emory.edu/proposals/esubmit/esubinfo.cfm>

NIH's information and formats <http://grants.nih.gov/grants/funding/424/index.htm>

Research Administration News, a monthly newsletter which provides timely information about various aspects of research at www.or.emory.edu/newsletter.cfm

Publications

- Keeping an eye on 11:11 dynein as a model for flagellar dynein assembly and regulation. 2007. *Cell Motil Cytoskeleton*. 2007 Aug; 64(8):569-79. Review. **Wirschell M**, Hendrickson T, **Sale WS**.
- Building a radial spoke: Flagellar radial spoke protein 3 (RSP3) is a dimer. 2007. *Cell Motil Cytoskeleton*. 2007 Dec 21. **Wirschell M**, Zhao F, Yang C, Yang P, Diener D, Gaillard A, Rosenbaum JL, **Sale WS**.
- A Book chapter: Structural basis for regulation of flagellar motility: Organization of the "dynein regulatory complex", inter-dynein linkers and a network of axonemal kinases and phosphatases. *The Chlamydomonas Sourcebook 2nd edition*. G.B. Witman editor. **Maureen Wirschell**, Daniela Nicastro, Mary E. Porter and **Winfield S. Sale**. in press.
- Jones, C., Roper, V.C., Foucher, I., **Qian, D.**, Banizs, B., Petit, C., Yoder, B., **Chen, P.** (2008) Ciliary genes link basal body polarization to planar cell polarity regulation. *Nature Genetics* 40, 69-77. Article. Featured on Nature Genetics Website; News and Views: *Nature Genetics* 40, 9-10.
- Anne R. Gaillard, **Laura A. Fox**, Jeanne M. Rhea, Branch Craige, and **Winfield S. Sale**. "Disruption of the A-Kinase-anchoring Domain in Flagellar Radial Spoke Protein 3 Results in Unregulated Axonemal PKA Activity and Abnormal Flagellar Motility". *Mol. Biol. Cell*. 17, 2626-2635.
- **Muddashetty R**, Kelic S, Gross C, XU M and **Bassell GJ**. Dysregulated mGluR-dependent translation of AMPA receptor and PSD-95 mRNAs in a mouse model of fragile x syndrome. *Journal of Neuroscience*, 2007, 27(20):5338-5348.
- Nakamoto M, **Nalavadi V**, Epstein MP, Narayanan Y, **Bassell GJ** and Warren ST. Fragile X Mental Retardation protein deficiency leads to spontaneous mGluR5-dependent internalization of AMPA receptors. *PNAS*, 2007, 104(39):15537-15542.
- Willis DE, **Sasaki Y**, Mesngnon M, Merianda TT, Williams GG, Kendall M, Smith DS, **Bassel GJ** and Twiss JL. Extracellular stimuli specifically regulate localized levels of individual neuronal mRNAs. *Journal of Cell Biology*, 2007, 178(6):965-980.
- Narayanan U, **Nalavadi V**, Nakamoto M, Pallas D, Ceman C, **Bassell GJ** and Warren ST. mGluR-dependent FMRP dephosphorylation in dendrites reveals an early and dynamic phase of neuronal translation. *J. Neuroscience*, 2007, 27(52): 14349-14357.
- Wang H, Dichtenberg J, Ku L, **Bassell GJ** and Feng Y. Dynamic association of FMRP as an mRNP between microtubules and translating polyribosomes. *Molecular Biology of Cell*, 2008, 19(1): 105-114.
- Craige, B., **Salazar, G.**; **Faundez, V.** (2007) Phosphatidylinositol-4- kinase type II Alpha contains an AP-3 sorting motif and a kinase domain that are both required for Endosome Traffic. *Molecular Biology of the Cell* in press.
- **Aneja R**, Liu M, Yates C, Gao J, Dong X, Zhou B, Vangapandu SN, Zhou J, and **Joshi HC**. MRP-overexpressing teniposide-resistant human lymphomas undergo apoptosis by a tubulin-binding agent. *Cancer Res*. 2008 (in press).
- Liu M, **Aneja R**, Wang H, Sun L, Dong X, Huo L, **Joshi H**, and Zhou J. Modulation of multidrug resistance in cancer cells by the E3 ubiquitin ligase seven-in-absent homologue 1. *J Pathol*. 2007 Dec 17: (Epub ahead of print).
- **Aneja R**, Kalia V, Ahmed R, **Joshi HC**. Nonimmunosuppressive chemotherapy: EM011-treated mice mount normal T-cell responses to an acute lymphocytic choriomeningitis virus infection. *Mol Cancer Ther*. 2007 Nov;6(11):2891-9.
- Shrivastava-Ranjan P, **Faundez V**, Fang G, Rees H, Lah JJ, Levey AI, Kahn RA. Mint3/X11{gamma} Is an ADP-Ribosylation Factor-dependent Adaptor that Regulates the Traffic of the Alzheimer's Precursor Protein from the Trans-Golgi Network. *Mol Biol Cell*. 2008 Jan;19(1):51-64. Epub 2007 Oct 24. PMID: 17959829 [PubMed - in process].
- Berger AC, **Salazar G**, Styers ML, **Newell-Litwa KA**, **Werner E**, Maue RA, Corbett AH, **Faundez V**. The subcellular localization of the Niemann-Pick Type C proteins depends on the adaptor complex AP-3. *J Cell Sci*. 2007 Oct 15;120(Pt 20):3640-52. Epub 2007 Sep 25. PMID: 17895371 [PubMed - in process].
- **Newell-Litwa K**, Seong E, Burmeister M, **Faundez V**. Neuronal and non-neuronal functions of the AP-3 sorting machinery. *J Cell Sci*. 2007 Feb 15;120(Pt 4):531-41. Review. PMID: 17287392 [PubMed - indexed for MEDLINE].
- **Li-Ting Chien**. Drosophila bestrophin-1 chloride current is dually regulated by calcium and cell volume. *J Gen Physiol*. 2007 Nov;130(5):513-24.
- Ensslin, **M.A.**, **Lyng, R.**, **Raymond, A.**, Copland, S., and **Shur, B.D.** 2007. Novel gamete receptors that facilitate sperm adhesion to the egg coat. In: *Gamete Biology: Emerging Frontiers in Fertility and Contraceptive Development*. Gupta SK, Koyama K and Murray JF, eds. Society of Reproduction and Fertility Supplement 63, Nottingham University Press, 367-384.
- **Lyng, R.** and **Shur, B.D.** 2007. Sperm-egg binding requires a multiplicity of receptor-ligand interactions: new insights into the nature of gamete receptors derived from reproductive tract secretions. *Soc Reprod Fertil Suppl*. 65:335-351.
- Ensslin, M.A. and **Shur, B.D.** 2007. The EGF repeat and discoidin domain protein, SED1/MFG-E8, is required for mammary gland branching morphogenesis. *Proc. Natl. Acad. Sci. USA*, 104:2715-2720.
- Bu, H.F., Zuo, X.L., Wang, X., Ensslin, M.A., Koti, V., Hsueh, W., **Raymond, A.S.**, **Shur, B.D.** and Tan, X.D. 2007. Mike fat globule-EGF factor 8/lactadherin plays a crucial role in maintenance and repair of murine intestinal epithelium. *J Clin Invest*. 117:3673-3683.
- **Shur, B.D.** 2008. Molecular dissection of mammalian sperm binding to the egg zona pellucida: a reassessment of the role of sperm GalT during sperm-egg interactions. *Int. J. Devel. Biol.*, in press.



Sign Up to Get Your W-2 Online for 2008 and 2009

Emory & TALX are partnering again to offer Emory University, Emory Healthcare & Wesley Senior Living employees an option to receive their W-2s online.

Employees who registered to receive their W-2 online in prior years do not need to register to receive your 2006 W-2 online. Review your account information online to ensure your email address is accurate.

Steps to receive your original W-2 online:

1. Visit <http://www.w2express.com>
2. On the home page, Enter "Employer Code" 11332 in the Login box and Click GO
3. Enter your Social Security number (without dashes)
4. Enter your PIN, which is the last four digits of your Social Security number plus your birth month and the last two digits of your birth year, example, if your Social Security number is 414425731 and your birthdate is July 1965, your PIN would be 57310765.
5. The next screen is an option - PIN Reset Enrollment. If you enroll, the system will give you the option to reset your pin and/or receive an email with your pin number if you forgot your pin. This process requires an email address.
6. Select "Consent for Online Delivery".
7. Read the disclosure and Click on "Test Now".
8. A sample W2 will be shown on your computer. If the sample W2 screen shows on your computer, you will be able to access your W2 online from

that computer. If the sample does not show then contact your local technical support personnel to check your Adobe Acrobat Reader.

9. Close the sample file and click on "I saw the test W-2, read all the important information above, and want to receive my original W-2 statement online".
10. Complete the consent form with your primary (and secondary) email address, your mailing address, and your home/work phone number. Select "Continue".
11. A verification screen will show if correct select "Confirm".

If you need help call customer service at 1-800-996-7566.

Free Tax Preparation

Free Tax Preparation and Electronic Filing to Qualified Emory Employees. According to our records you may qualify for this service, which includes:

- Tax preparation and electronic filing by IRS trained and certified Emory employees.
- 100% confidentiality
- Refunds in about a week with direct deposit.

Appointments for these services are offered **February 5 through April 10**.

If you want to schedule an appointment, please call **404-727-7611**.

If you have tax-related tax questions, please call Mandie Alden at **404-444-1980**.

Tips for Emory's Time & Attendance System; Non Exempt Employee Responsibilities

- Time in and out as close to the beginning and end of your workday as possible.
- Report your own time accurately and consistently. If you believe you have made an error, contact Carolyn Eason (727-3950) as soon as possible.
- Obtain approval for any changes to your schedule.
- Keep your employee number confidential. Only you, your time keeper, and your supervisor need to know your number.
- Any employee found using another employee's number could subject both employees to disciplinary action.

How to Time-In and Time-Out

- 1) Call 2-6666 to access TAS; follow the prompts.
- 2) Enter your employee number.
- 3) Choose 1 for Time-in or 9 for Time - Out.
- 4) Hang up after the TAS system says "Thank you for using the system".



Laura at 60 miles and still going strong!

Breast Cancer Walk

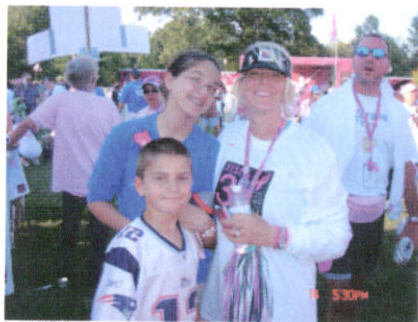
by Laura Fox-Goharion

In October of 2007 I once again walked 60 miles to help put an end to breast cancer. It was a great weekend. The weather was perfect. The people were friendly and the cause was close to everyone's heart.

For some it was extremely personal but for me it was just what I felt I should do. Again I have to say it was really a life changing event.

If you ever get the opportunity I would recommend walking the 3 Day. I plan to walk again this coming October. I would love the company!

If you would like to make a contribution please feel free to contact me!



"My reason for walking"



Dr. Gary Ratner

Powers Lab Student Becomes Public Defender, But Faundez Is Still Victor

by Gary Ratner

Gary Ratner of the Maureen Powers Lab, a one-time civil rights plaintiff's attorney, publicly defended his doctoral dissertation on October 23, 2007. Here are some of his photographs and observations.

Years of graduate study reached their pivotal moment in an open public forum, in the presence of mentors, other senior and junior members of our scientific community, schoolmates, lab mates, and other friends, plus family from near and far. After completing the presentation and thanking those who had brought me to that day, I emerged as a Ph.D., fully admitted to self responsible scientific adulthood. We celebrated with an immediate, on-the-spot formal reception with a great buffet. Later, there were some fabulous gifts and a less formal kind of party, at which I and my classmates acted like the children we still wished we were. It's funny how much a Ph.D defense is like a bar mitzvah.

A successful bar mitzvah or dissertation defense needs a good facilitator at two key points: getting out the invitations and putting together the party. Thanks, Chelsea Heath!

My brother came down from Up North. (As if y'all couldn't tell!)

The most memorable moment of the day came during the acknowledgement portion of my presentation, when I addressed a Spanish-speaking friend.

Gary Ratner: El dia del juego de beisbol inaugural de la temporada 2008 de los Bravos de Atlanta es el

treinta y uno de Marzo contra los Piratas de Pittsburgh.

Victor Faundez: Gary, would you please say that again...

(Perfectly timed pause.)

Victor Faundez: ...in Spanish



Marie Cross, Gary Ratner, Maureen Powers



Gary's brother (left); Gary Ratner



GRANTS AND CONTRACTS NEW AWARDS; CONGRATULATIONS!

Gary Bassell	"mRNA Translation for Nerve Regeneration", NIH Total Costs: \$368,157 (2 years)	John Scott	"Nutritional Aspects of Retronasal Olfaction, NIH/NRSA Maggie Phan Total Costs: \$81,936 (3 years)
Gary Bassell	"Imaging of SMN function in RNA dynamics in Motor Neurons Using Lentiviral Vectors", Spinal Muscular Atrophy Foundation Total Costs: \$229,954 (3 years)	Werner, Erica	Tumor Endothelium Marker 8 Mediated Adhesion in Tumor Associated Vasculature, NIH Total Costs:\$376,721 (3 years)
Gary Bassell	The Role of FMRP in Local Translation at Synapses- Identification of Specific Christina Gross Target mRNAs and Underlying Mechanisms, NFX F Fellowship Total Costs: \$80,000 (2 years)		
Andrew Kowalczyk	Mechanisms of Desmosome Regulation and Disassembly in the Skin Disease Pemphigus, NIH Total Costs: \$382,500 (1 year)		

Other Congratulations

- A recent award from Department of Defense to Dr. Ritu Aneja. Title: Metastatic Prostate Cancer Therapy by a Novel Single Agent and Synergistic Combinations with Taxotere. Direct Cost: \$225,000; Indirect Cost: \$119,250.
- Avanti Gokhale (Sale Lab) was an invited speaker at the 2007 FASEB Summer Conference on Ciia in Saxton River, VT.

New Hires

- Dong Dong Ren is a visiting student from China in Ping Chen's lab.
- Claudia Fallini, is a current graduate student at the University of Milan (Italy), arrived in January to conduct collaborative studies in Dr. Bassell's lab.
- Yong Yang joined the Bassell lab last September as a Senior Research Specialist
- Dr. Kristy Welshans joined Gary Bassell's lab in October as postdoctoral fellow. Kristy received her Ph.D. from the lab of Dr. Vincent Rehder at Georgia State University.
- Bree Wittich, B.S., M.S. Research Specialist Lead; Home Town: Atlanta, GA College: Emory University Graduate: Georgia Institute of Technology (Kowalczyk Lab)
- Dana K. Tucker, B.S., Ph.D. Student (Biochemistry, Cell and Developmental Biology Program) College: B.S. in Biology from Missouri Southern State University; Graduate: M.S. in Cell and Molecular Biology from Missouri State University; Hometown: Springfield, MO (Kowalczyk Lab)
- Dan Pong will do his masters thesis project in Dr. Bassell's lab in fulfillment of a combined BS/MS degree at Emory.
- Amy Pierce, Research Specialist Senior (Powers Lab)
- JingSheng Gu, Research Specialist (Sanyal & Werner Labs)

Thanksgiving Luncheon



Caterers setting up in the hallway.



Staff lining up for lunch.



Dessert Table



Staff awaiting lunch



Holiday Party at Miller-Ward Alumni House December 16, 2007



New Arrivals



Name: Kathryn Sherrill
 Born: August 29, 2007
 Mother: Lisa Sherrill (Scott Lab)



Name: Samantha McGaha
 Born: September 2007
 Parents: Keith and Lee Ann (Grad Student in Faundez Lab)



Name: Ellena Hou
 Born: July 10, 2008
 Mother: Shuangding Amy Li
 Father: Bin Hou



Name: Benjamin Li
 Born: November 11, 2007
 Mother: Li-Ting Chien (Hartzell Lab)



Weddings

Congratulations



Carolyn Krisel (Moberg Lab) and David Beam wed on August 4, 2007 in Summerville, SC.

Upcoming Events

April 3 - Department Bowling Party at Midtown Bowl
 April 10 & 11 - BCDB Symposium
 May 2 & 3 - Department Faculty Retreat

Cell Biology Seminar Schedule

Feb 15 - Andrew Forge - U. College, London
 Mar 19 - Tim Yen - Fox Chase
 Apr 2 - Mary Porter - U. Minnesota
 Apr 9 - Norman Hecht - U. Penn
 Apr 16 - Maxim Frolov - U. Illinois
 Apr 23 - Michael Shipley - U. Maryland
 May 7 - Jennifer Lippencott-Schwartz - NIH
 May 21 - Jeff Gelles - Brandeis
 May 28 - Tim Gomez - U. Wisconsin
 June 4 - Jeff Twiss - Nemours

B & G Schedule

March 10, 2008 - McKeon
 April 14, 2008 - Moberg
 May 12, 2008 - Powers
 June 9, 2008 - Sanyal
 September 8, 2008 - Sale
 October 13, 2008 - Scott
 November 10, 2008 - Shur
 December 8, 2008 - Wolf

FEEDBACK REQUESTED

This is your newsletter and your involvement is crucial to its success. Please send comments, suggestions, or ideas for articles or columns to Chelsea Heath by departmental mail, telephone at 404-727-3640 or email to cheath2@emory.edu.

THANK YOU**To:**