

CELL BIOLOGY UPDATE

http://cellbio.emory.edu/_pdf/newsletter_winter_2007.pdf

Fall/Winter 2006/2007

Cell Biology 2006 Holiday Party



New Arrivals



Febru
March



Caleb Murray
Born: March 16, 2006
Mother: Tiesha Murray (Bassell Lab)



Charlotte Anne Lyng
Born: November 6, 2006
7 lbs, 4 oz., 20 inches
Parents: Robert & Elizabeth Lyng (Shur Lab)



Alida Cucoranu
16 months
Mother: Delia Cucoranu (McKeon Lab)



Andrew Zeng
Born: September 18, 2006
Mother: Yuan Yuan Cui (Hartzell Lab)



Congratulations!

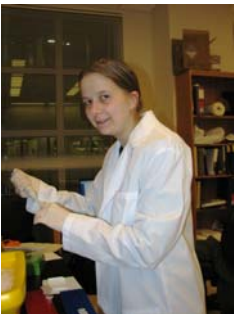
Staff Promotions: Carolyn Eason was promoted to Accountant; Huronda Smith was promoted to Financial Analyst; Amy Franciscovitch was promoted to Research Specialist.

Faculty Promotions: Dr. Gary Bassell and Dr. Victor Faundez were awarded tenure at Emory University effective September 1, 2006; Dr. Victor Faundez accepted an invitation to serve as a member of the Synapses, Cytoskeleton and Trafficking Study Section, Center for Scientific Review, for the term beginning immediately and ending June 30, 2010.

Other Congratulations: The Sigma Xi Committee on Grants-in-Aid Research awarded Karen Newell a grant of \$1,000 to support her research.

Changes

New Staff: Christina Gross, Postdoc (Bassell Lab); Sharon Swanger, Graduate Student (Bassell Lab); Michael Kelly, Graduate Student (Chen Lab); Rebecca Schlisner, Research Specialist Lead (Chen Lab); Amy Franciscovich, Research Specialist (Sanyal Lab); Carrie Eggers, Research Specialist Lead (Powers Lab); Kai ER "Carl" Ying, Lab Assistant (Hartzell Lab); Po-Yang Chen, Research Specialist (Bassell Lab); Sharon Burdick, Research Specialist (Moberg Lab); Maggie Kottke, Postdoc (Kowalczyk Lab); Candice Elam, Graduate Student (Sale Lab); Qinghuan Xiao, Postdoc (Hartzell Lab); Avenel Joseph, Graduate Student (Shur Lab).



Christina Gross, postdoc (Bassell Lab)

I graduated 2005 in Berlin, Germany in the lab of Prof. Dietmar Kuhl at the Free University of Berlin. In Prof. Kuhl's lab, I investigated an mRNA binding protein regulating the translation of the dendritic Arg3.1/Arc mRNA. I joined Gary Bassell's lab in May 2006 to study activity-regulated mRNA transport.



Sharon Swanger, graduate student

Sharon Swanger is currently a second year student in Emory University's PhD Program in Neuroscience. She joined Dr. Gary Bassell's lab in September of 2006 and is interested in studying how dendritic protein synthesis regulates activity-dependent changes at the synapse. Before joining the Emory community, Sharon attended Lehigh University where she earned a B.S. degree in Behavioral Neuroscience in 2001. Subsequently, she worked as a research assistant for four years at Drexel University College of Medicine.

Grants and Contracts New Awards 2006-2007

Gary Bassell	"Regulation of Intra-Axonal Protein Synthesis" Nemours Children's Clinic/NIH Total Costs: \$193,075 (5 years)
Gary Bassell	"mRNA Localization and Translation during Axon Regeneration" PVA Research Foundation Total Costs: \$75,000 (1 year)
Ping Chen	"Growth and Patterning of the Organ of Corti" NIH Estimated Total Costs: \$1,625,625 (5 years)
Ping Chen C. Jones	"The Role of Ankrd6 in Mammalian Inner Ear Development" NIH/NRSA Estimated Total Costs: \$94,772
Arthur English	"Proteoglycan Degradation and Functional Recovery after Peripheral Nerve Injury" NIH Total Costs: \$325,126 (2 years)
Arthur English	"Exercise Neurotrophins and Axon Regeneration in the PNS" NIH Total Costs: \$1,506,095 (5 years)
Victor Faundez	"Regulation of Synaptic Vesicle Degradative Mechanisms by Oxidative Stress: Implications for Parkinson's Disease" CCPDER Pilot Grant Total Costs: \$38,250 (1 year)
William Goolsby	"Functional Assemblies of Motor Units" Wright State/NIH Estimated Total Costs: \$167,895 (5 years)
Andrew Kowalczyk C. Chaisson	"Regulation of VE-Cadherin Endocytosis by P120-Catenin" American Heart Association-SRC Estimated Total Costs: \$38,000 (2 years)
Kenneth Moberg	"Control of Tissue Growth and Architecture by Drosophila TSG 101" NIH Total Costs: \$1,086,300 (5 years)
Kenneth Moberg	"Role of the Archipelago Gene in Drosophila Tracheal Morphogenesis" NIH Total Costs: \$1,071,000 (4 years)
Maureen Powers	"Functional Analysis of Vertebrate Nuclear Transport" NIH Total Costs: \$1,276,896 (4 years)
Sean Qu	"A Study on the Mechanisms of the Best Vitelliform Macular Dystrophy" AFAR Total Costs: \$30,000 (1 year)
Subhabrata Sanyal	"p38 Kinase Regulation of Learning and Neural Plasticity in Drosophila" URC Total Costs: \$30,000 (1 year)
Yukio Sasaki	"Dysfunction of Axon Guidance in Spinal Muscular Atrophy" Families of SMA Total Costs: \$108,000 (2 years)

Regulatory and Policy Changes/Application Information

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

In conjunction with the transition to electronic submission of grant proposals, **NIH has changed the standard receipt dates** for applications. New receipt deadlines apply to all grants, whether or not they are submitted electronically. The new deadlines for the most types of proposals are as follows:

<u>Grant Type</u>	<u>Deadlines</u>
R01 (New):	February 5, June 5, October 5
R01 (Renewal, Resubmission)	March 5, July 5, November 5
R03, R21 (New):	February 16, June 16, October 16
R03, R21 (Renewal, Resubmission):	March 16, July 16, November 16
K Series (New):	February 12, June 12, October 12
K Series (Renewal Resubmission):	March 12, June 12, October 12
F Series – All (Individual NRSA):	April 8, July 8, December 8

NIH has delayed transition to electronic submission for the following mechanisms: K, F, T, D and complex grant programs (P&U). A new timeline for transitioning these applications has not been specified at this time.

Websites of note:

Cell Biology Work Request Online form is available at: <http://main.cellbio.emory.edu>.

Find sources of internal and external funding on the OSP website at: <http://www.osp.emory.edu/funding.cfm>.

Up-to-date information about visas can be accessed on the web site for Emory's International Student and Scholar Programs: <http://www.emory.edu/ISSP>.

Postdoctoral positions can be announced or searched utilizing Academic Careers Online at www.AcademicCareers.com. Applicants use all of their services without being charged and employers can post a job listing for up to three full months of \$175.00.

Publications

Procaccio V*, **Salazar G***, Ono S, Styers ML, Gearing M, Davila A, Jimenez R, Juncos J, Gutekunst CA, Meroni G, Fontanella B, Sontag E, Sontag JM, **Faundez V**, Wainer BH. (2006) Mutations in the beta-actin gene associated with autosomal dominant dystonia, deafness and ventral midline defects, results in defects in actin dynamics. American J. Human Genet. 78(6):947-60.
*Contributed equally.

Salazar, G.* ; Craige, B*., Styers, M. L., Newell-Litwa, K. A., Doucette, M. M.; Wainer, B. H.; Falcon-Perez, J. M.; Dell'Angelica, E. C., Peden, A. A, Werner, E.; Faundez, V. (2006). BLOC-1 Complex Deficiency Alters the Targeting of Adaptor Protein Complex-3 Cargoes. Mol. Biol. Cell 17:4014-4026. *Contributed equally.

Werner E, Kowalczyk AP, Faundez, V. (2006). Anthrax Receptor 1/Tumor Endothelium Marker 8 mediates cell spreading by coupling extracellular ligands to the actin cytoskeleton. J. Biol. Chem. 81(32):23227-36

Styers, ML, **Kowalczyk AP, Faundez, V.** (2006). The Architecture of the Vimentin Cytoskeleton is Modified by perturbation of the ARF1 GTPase. J. Cell Science. 119:3643-54

Newell-Litwa, K. A.; Eunju Seong; Burmeister, M; Faundez, V. (2007). Neuronal and Non-neuronal Functions of the AP-3 Sorting Machinery. J. Cell Science. In press

Qu, Z., Y. Cui, H.C. Hartzell. A short motif in the C-terminus of mouse bestrophin-4 inhibits its activation as a Cl channel. FEBS Lett. 580,2141-2146 (2006).

Qu, Z., Chien, L-T., Cui, Y., and H. C. Hartzell. The anion-selective pore of the bestrophins, a family of chloride channels associated with retinal degeneration. Journal of Neuroscience 26, 5411 - 5419 (2006).

Yu, K., **Yuanyuan Cui**, and **H. Criss Hartzell.** The Bestrophin Mutation A243V Linked to Adult-Onset Vitelliform Macular Dystrophy Impairs Its Chloride Channel Function. Investigative Ophthalmology and Visual Sciences 49, 56 ? 61 (2006).

Chien, L.T., Zhi-Ren Zhang, and **H. Criss Hartzell.** Single Cl⁻ Channels Activated by Ca²⁺ in Drosophila S2 Cells Are Mediated By Bestrophins. Journal of General Physiology 128, 247-259 (2006). Featured on the cover of the September issue.

Marchant, D., K. Yu, K. Bigot, O. Roche, A. Germain, D. Bonneau, V. Drouin-Garraud, D. F. Schorderet, D. Schmidt, P. Le Neindre, C. Marsac, M. Menasche, J.L. Dufier, R. Fischmeister, **H. C. Hartzell** and M. Abitbol. New VMD2 gene mutations identified in patients affected by Best Vitelliform Macular Dystrophy. Journal of Medical Genetics (in press).



Other Cell Biology Activities



Li-Ting Chien's paper was featured on the cover J. Gen. Physiol. This made Li-Ting the first cover-Girl in the Hartzell Lab".

"The Kowalczyk and Faundez retreat to the GA Mountains November 2006".

Weddings



Karen Newell married Matthew David Litwas on 9/3/2006 in Dawson, Pennsylvania.



The Faundez Family attended Karen Newell's wedding.



Li-Ting Chien and Ted Li were married on December 30, 2006 in Taipei, Taiwan.

Seminar Schedule

February 28, 2007	Dr. Sarah Millar – University of Pennsylvania
March 7, 2007	Dr. Trina Schroer – Johns-Hopkins
March 14, 2007	Dr. Simon Conway –
March 21, 2007	Dr. Stephen King – University of Connecticut
March 28, 2007	Dr. Lynn Zechiedrich – Baylor
April 4, 2007	Dr. Katherine Ullman – University of Utah
April 11, 2007	No Seminar scheduled as of yet
April 18, 2007	Dr. Ken Irvine – Rutgers
April 25, 2007	Dr. Pierre McCrae – MD Anderson
May 2, 2007	No Seminar scheduled as of yet
May 9, 2007	No Seminar scheduled as of yet
May 16, 2007	No Seminar scheduled as of yet
May 23, 2007	No Seminar scheduled as of yet
May 30, 2007	No Seminar scheduled as of yet

B&G SCHEDULE

March 12, 2007	Chen
April 9, 2007	Dunlap
May 14, 2007	Csete
June 11, 2007	English
July / August	No B&G's
September 10, 2007	Faundez
October 8, 2007	Hartzell
November 12, 2007	Joshi
December 10, 2007	Kowalczyk
January 14, 2008	Lin
February 11, 2008	Luskin
March 10, 2008	McKeon
April 14, 2008	Moberg
May 12, 2008	Powers
June 9, 2008	Sanyal

UPCOMING EVENTS

Mar 24, 25	Faculty Retreat
Apr 8	NRSA Deadline
May 28	Memorial Day
Jun 5	R01Deadline (New)
Jun 12	K Series Deadline (New)
Jun 16	R21 Deadline (New)
Jul 4	Fourth of July
July 5	R01 Deadline (Resubmissions/Revisions)
Jul 12	K Series Deadline (Resubmissions/Revisions)
Jul 16	R21 Deadline (Resubmissions/Revisions)
Aug 8	NRSA Deadline
Sept 3	Labor Day
Nov 23, 24	Thanksgiving
Dec 24, 25	Christmas
Dec 31	New Year's Eve

Upcoming Emory University Events

The Division of Educational Studies has organized a conference on “Education for Innovation in India, China, and America”. The meeting will take place on March 2 – 3, 2007 at the Emory Conference Center. Those who should attend are college faculty and students in education, business, science/medical, and technology fields; college administrators; corporate strategists and decision makers in education and technology sectors, R&D, and global planning. For more information or to register visit www.innovation07.org.

Feedback Requested

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