



RESEARCH update

March 2009

On Board for Science and Scientists



Dr. Thomas Badger has accepted an invitation from the American Society for Nutrition to serve as the society's representative to the Board of Directors of the Federation of American Societies for Experimental Biology.

Dr. Thomas Badger has accepted an invitation from the American Society for Nutrition (ASN) to serve as the society's representative to the Board of Directors of the Federation of American Societies for Experimental Biology (FASEB). Dr. Badger will fill an interim vacancy of ASN's board representative and then serve the succeeding 4-year term. His commitment to the Federation Board will extend into 2013.

"FASEB is the major scientific society in the world and the largest," says Dr. Badger, Director of the Arkansas Children's Nutrition Center (ACNC). FASEB was founded in 1912 and is now comprised of over 20 member societies. ASN is one of FASEB's founding organizations. The member societies bring input from a wide range of disciplines to this federation. He adds, "They represent a very strong voice for world-wide science, and, because of the number of members, FASEB is an important lobbying group."

As a Federation Board member, Dr. Badger has two major constituents. The first is science. FASEB's mission is to advance biological science through collaborative advocacy for research policies that promote scientific progress and education and lead to improvements in human health. Dr. Badger's second constituency is the society he represents on the board. He can bring ASN's perspective on issues to the board. As an active member of ASN's Science and Policy Committee and its representative to FASEB's Science Policy and NIH Peer Review Committees, Dr. Badger is keenly aware of

issues facing ASN's dedication to turning research into clinical tools and methods.

Before accepting the position, Dr. Badger had to weigh the amount of work that comes with it. "It is a tremendous amount of work," he says. The board holds 4 face-to-face meetings and 12 monthly conference calls annually. It is not just the hours-long meetings, but the preparation for them and then reporting on them to ASN subcommittees monthly.

FASEB's influence has been important in many funding-related issues. The group worked closely with Senator Arlen Specter on obtaining the latest research funding increases. Recent and planned changes to NIH's review process include participation from FASEB. The group is highly committed to developing and providing mechanisms to assist early-stage investigators to obtain funding sooner in their careers. These reorganizations of funding reviews and programs are a large endeavor that strives to make the process fairer yet maintain an objective evaluation of the proposed science to ensure that worthy projects receive funding.

In these matters, Dr. Badger brings his experience as a researcher and Director of the ACNC to the FASEB Board of Directors. The Agricultural Research Service of the US Department of Agriculture established the ACNC in 1995 with Dr. Badger as its Director. The facility is 1 of only 6 centers in the

USDA's National Human Nutrition Research Centers Program and one of two centers to focus only on pediatric nutrition. The ACNC focuses specifically on diet and nutritional status of human development, using state-of-the-art procedures, equipment, and facilities to determine how dietary factors and nutrition can affect brain development, learning, and attention span, as well as how early dietary intervention can prevent diseases of development and aging.

As member of the FASEB Board of Directors, Dr. Badger holds 1 of 20 seats worldwide that speaks for the federation. He also brings recognition to UAMS, ACH, and ACHRI to an influential scientific and research body. This connection contributes to keeping our research programs informed and making them better known.

President's Choice

Stop by the bulletin board located in the first-floor lobby of the ACHRI building to see this month's President's Choice publications. The following articles were selected as this month's feature publications.

- Bowman SM, Aitken ME, Helmkamp JC, Maham SA, Graham CJ. Impact of helmets on injuries to riders of all-terrain vehicles. *Inj Prev*. 2009 Feb;15(1):3-7.
- Tilford JM, Grosse SD, Goodman AC, Li K. Labor Market Productivity Costs for Caregivers of Children with Spina Bifida: A Population-Based Analysis. *Med Decis Making*. 2009; 29: 23-32.

ACHRI would like to know about your published findings, as your articles are published, please email or mail a copy to [Phaedra Yount](mailto:Phaedra.Yount@achri.org) (mail slot 842). The number of publications by our researchers is reported to the hospital and ACHRI boards, so it is important that we receive an accurate count of the publications your research produces. To see all recent publications by ACHRI researchers and their collaborators, please visit the [publications web page](#).

NIH R01 Awarded to Nicolaas "Mick" Deutz!

The National Institute of General Medical Sciences, National Institutes of Health, has awarded Dr. Nicolaas E.P. Deutz an R01 grant for his project "Optimal Amino Acid Nutrition in Sepsis." The award is for \$1,205,400 over a 4-year period. Despite the well-recognized importance of supporting organ and tissue metabolism in sepsis with appropriate nutrition, current nutritional approaches are generally unsuccessful at preventing muscle loss and gut atrophy. Dr. Deutz and his team propose to quantify the response of protein synthesis in the muscle, gut, and liver to specific formulations of amino acids designed to stimulate protein synthesis. Their overriding hypothesis is that there is a unique formulation based primarily on essential amino acids that will maximally stimulate protein synthesis in muscle and gut mucosa, while maintaining protein synthesis in the liver. The results of this study should provide the basis for a new nutritional formulation to specifically support organ and tissue metabolism in sepsis.

Congratulations

Arkansas Children's Hospital was honored February 21 at the Arkansas Advertising Federation's Annual Addy Awards presentation held at the Clinton Presidential Library. A 30-second Public Service Announcement produced for the March 2008 launch of the Injury Prevention Center won two awards. The PSA (produced by ACH Public Relations and Media Services) reinforced the use of seat belts for teen drivers. It received a Gold Addy Award and the Broadcast-Special Judge's Merit Award (the only Special Judge's Merit Award given that evening in the entire broadcast category). ACH competed against advertising agencies, corporate agencies, non-profits and other hospitals across the state for these prestigious awards. All totaled, ACH received two Gold Addys, two Silver Addys, one Bronze Addy, and the Special Judge's Merit Award.





ACHRI welcomes Jennie Stern,
Clinical System Analyst

Database Building, Reporting, and Analysis Services for Researchers

Does your research project include building a database and reports or analyzing an already existing database? You can find support for building databases and reports from the Department of Pediatric Biostatistics. Jennie Stern has recently joined the department as the Clinical System Analyst. She is already working with research investigators and will be the liaison between Pediatric Biostatistics, investigators, ACHRI, and ACH's Systems Development Group. Jennie's efforts will develop new, user-friendly research databases for end-users and provide various types of data analysis in regards to research. Services provided by Jennie will be charged to studies as a direct cost to the project based on a percentage of her effort. To discuss your project, contact Jennie by email (jestern@uams.edu) or by telephone (364-3189).

ACHRI Address Change

With the dedication of Children's Way (formerly Marshall Street), ACHRI has a new street address: 13 Children's Way. Use this address on grant applications submitted through ACHRI. Refer to the [sample SF 424](#) with ACHRI information at our Web site to view the change for NIH submissions.

Compliance Corner: Review your clinicaltrials.gov submission every six months!

Do you have a study on clinicaltrials.gov? Take a moment today to put a reminder in your calendar to check your submission every six months. Not only is this required, but just good practice. Protocol records for active trials should be reviewed or modified as needed at least every six months. **Pay special attention to the recruiting status and contact information** as the accuracy and timeliness of this information is extremely important to patients and health care professionals. Update the record's verification date (via the Edit Protocol screen) to confirm the record has been reviewed.

Wanted: Researcher Profiles!

Last month there were almost 900 page visits to ACHRI's "Our Researchers" index page. These views were from many of the over 1,800 unique visitors to ACHRI's Web site. Would you like to add your researcher profile to our Web site? If so, send [John Gregan](#) the following information: your title, a paragraph about your research interests and accomplishments, a list of your current research funding, appropriate contact information, and a list of five key publications. Include a current digital photograph if you have one available. You can view the profiles we've developed here: <http://achri.archildrens.org/researchers/faculty.htm>.

If you already have a profile at our web site, contact John if you need to revise it in regards to accomplishments, publications, and funding.

Upcoming Educational Opportunities

There are several on-campus educational opportunities scheduled in the next couple months. Some of the topics are listed below. Learn more about these opportunities and others at <http://achri.archildrens.org/resources/calendar.htm>.

- Clinicaltrials.gov: Your Guide to Filing and Complying
- Human Subject Research Study Start-Up at ACHRI
- Challenges of Enrolling Non-English Speaking Subjects in Research
- Navigating Your New Submission in ARIA

Research Day 2009: Celebrating the Scholarship of Education, Evidence-Based Practice and Research

The Arkansas Children's Hospital Nursing Division is a co-sponsor of an annual nursing research conference, Research Day 2009: Celebrating the Scholarship of Education, Evidence-Based Practice and Research. The conference is a joint effort of Arkansas Children's Hospital Nursing Division, UAMS

College of Nursing, UAMS Medical Center, Central Arkansas Veteran's Healthcare System, and the Gamma Xi Chapter of Sigma Theta Tau International. The conference will be held on April 24, 2008, on the UAMS campus. Thirteen ACH nurses are presenting their work including Lori Brown, Angela Green, Amy Hester, Luann Jones, Janie Kane, JoAnne Kaye, Karalyn Kerby, Angie McJunkins, Tyra Mogenson, Jessica Parent, Beth Scotter, and Lisa Spikes. More information about the program and registration for Research Day 2009 is at <http://nursing.uams.edu/RESEARCH%20DAY%202009%20Program.docx>.

Funding Opportunities

NIH Challenge Grant: A Funding Opportunity Announcement developed as part of the American Recovery and Reinvestment Act of 2009

The NIH Challenge Grant information is posted on the NIH Web site: http://grants.nih.gov/grants/funding/challenge_award/

Please note: The RFA includes the following deadlines:

Opening Date: March 27, 2009 (Earliest date an application may be submitted to Grants.gov)

Letters of Intent Receipt Date(s): Not applicable

Application Due Date(s): April 27, 2009 - **PLEASE NOTE: Applications must be submitted to Lee Smith no later than Thursday, April 23. If you have questions, please contact Lee at 364-3581.**

Peer Review Date(s): June/July 2009

Council Review Date(s): August 2009

Earliest Anticipated Start Date(s): September 30, 2009

Monthly Funding Opportunities List

The National Association of Children's Hospitals (NACH) prepares and distributes upcoming funding opportunities every two weeks. Funding opportunities recently distributed by the NACH are available on the ACHRI web site (http://achri.archildrens.org/resources/funding_opp.htm). This file is updated monthly. Bookmark the page! The listing of funding opportunities is located on the intranet; you must have access to MyACH vault files to open the file.

New Industry-Sponsored Projects

PI	Agency	Project Period	Total Cost
Kathryn Thrailkill	MacroGenics	2/09 - 1/11	\$104,896.00

New Awards and Recent Submissions

Awards

PI	Funding Source	Project Title	Project Period	Total Funding for All Years
Sarah Blossom	ABI	Prenatal Cigarette Smoke Exposure and Neuroimmune Networks	2/1/09-1/31/11	\$30,000.00
Dennis Kuo	ACHRI 2009 Lyon Award	Toward a Family-Centered, Community Based System of Care for Children with Special Health Care Needs in Arkansas	4/1/09-3/31/11	\$50,000.00

Gresham Richter	ACHRI 2009 Lyon Award	Experimental Models for the Investigation of Vascular Anomalies: An Avenue to the Discovery of New Treatments for Problematic Hemangiomas and Vascular Malformations	3/1/09-2/28/11	\$49,906.00
-----------------	--------------------------	--	----------------	-------------

Submissions

PI	Agency	Project Title	Project Period	Total Funding
K. Sunny Anand	NIH	Toxic Effects of Ketamine in the Developing Brain	12/1/09-11/30/11	\$401,166.00
Sarah Blossom	NIH	Maternal Immunoregulatory Pathways in a Mouse Model of Congenital Heart Defects	12/1/09-11/30/11	\$147,000.00
Steve Bowman	NIH	Racial and Ethnic Disparities in Pediatric Injury Mortality: Variability in Place of Death, Autopsy and Hospital Quality	7/1/09-6/30/10	\$73,500.00
Clay Bunn	NIH	Mechanisms of Inflammatory Activation of Peripheral Blood Monocytes by Insulin and Metabolic Stress	12/1/09-11/30/14	\$1,470,000.00
Chuck Lumpkin	NIH	Ethanol & Osteoblastogenesis: Role of IL-1 & TNF	12/1/09-11/30/14	\$1,837,500.00
Martin Ronis	NIH	Fatty Acid Transport: A Role in Obesity Driven Ectopic Fat Disposition?	9/1/09-8/31/10	\$1,359,750.00
Rolla Shbarou	NIH	Impact of Initial Therapy and Response on Long Term Outcome in Children with CAE	11/1/09-10/31/14	\$227,390.00
Kathryn Thrailkill	NIH	Matrix Metalloproteinases and Diabetic Nephropathy	12/01/09-11/30/14	\$3,090,186.00
Hadi Aburasheed	CUMG	Hybrid Approach an Improvement Over the Norwood?	7/1/09-6/30/10	\$17,953.41
Nancy Beck	CUMG	Effect of Dietary Fat Intake on Postprandial Glucose, IL-6 and TNF-alpha in Type 1 Diabetes	6/1/09-1/1/10	\$39,663.42
Gulnur Com	CUMG	Changing Epidemiology of Staphylococcus Aureus Respiratory Infections in Pediatric Patients with Cystic Fibrosis	7/1/09-6/30/11	\$38,000.00

John Fowlkes	CUMG	The Insulin and Insulin-like Growth Factor (IGF) Axis in Diabetic Osteopathy	7/1/09-6/30/10	\$39,999.00
Xiomara Garcia	CUMG	Vasopressin as Therapy for Iatrogenic Vasoplegia in Neonates with Congenital Heart Disease: a Pilot Single Center Randomized Controlled Trial	6/1/09-5/31/11	\$36,467.85
Aaron Gardner	CUMG	Effectiveness of Anti-Fungal Prophylaxis During Extracorporeal Membrane Oxygenation	3/1/09-2/28/10	\$5,879.00
Dennis Kuo	CUMG	Outcomes of Family-Centered Inpatient Teaching Rounds	6/1/09-5/31/11	\$38,859.00
Robert Lyle	CUMG	Evaluation of Treatment Strategies for Neonates with Congenital Diaphragmatic Hernia	9/30/09-8/31/11	\$39,963.00
Patrick Munson	CUMG	Examination of Sublentic Distraction and Cricoid Cartilage Genesis Laryngotracheal Stenosis	7/1/09-7/1/11	\$40,000.00
Jessica Nichols	CUMG	Characterization of the Innate Immune Response in a Novel Murine Model of Central Nervous System Catheter Infection	7/1/09-6/30/11	\$40,000.00
Ronald Sanders	CUMG	Vasculogenesis in Pediatric Acute Lung Injury	7/1/09-6/30/10	\$36,143.00
Rahel Zabairi	CUMG	Prevalence of Risk Factors for Coronary Artery Disease in Adults with Congenital Heart Disease	7/1/09-6/30/12	\$29,229.21