



## RESEARCH UPDATE - September 2007



### YOUNG SCIENTISTS GAIN VALUABLE RESEARCH EXPERIENCE AT ACHRI

#### Summer Science Program

When asked what they did this summer, 13 college students will be able to give a detailed presentation and possibly an abstract or in-progress article in reply. These talented students participated in the Department of Pediatrics' Summer Science Program at ACH.

**UALR junior Cemeka Agugbuem, mentored by Dr. Whit Hall, presents the findings of her project, "Neonatal Pain, Long Term Effects and Pre-Attentional Mechanisms," to Summer Science Program students and mentors**

The Summer Science Program is giving these outstanding upper level college students the experience of a career in academic medicine—in both the clinical and research aspects. These students have spent their summer shadowing physicians, attending rounds and clinics, and touring different hospital units, as well as participating in a mentored research project involving children's health. Faculty

from various pediatric subspecialties have been teaching basic science and clinical research techniques and helping the students gain exposure to clinical medicine.

In addition, the Summer Science Program has hosted a lecture series focusing on various aspects of academic medicine, graduate school, medical school, residency, research, and clinical medicine for its participants. At the end of the program, students give a scientific presentation on their mentored research project. The program offers valuable experience for students interested in medicine, research, and pediatrics.

Results of this student research program have led to numerous abstracts presented at regional and national meetings, scientific articles, and grant applications. Many former Summer Science Program students have entered medical school or graduate school in health related professions. A recent graduate currently has a fellowship position at the CDC, and another is completing her pediatric residency at Arkansas Children's Hospital.

Dr. Robert Fiser, Chairman of the Department of Pediatrics (1975 to 1994), created the Summer Science Program in 1989 to encourage Arkansas college students to pursue careers in medicine and science. Initially, a few college students worked in various research laboratories in the department. Throughout the history of this program, it has been funded using seed money from drug companies, then private companies, and currently through the Department of Pediatrics, Arkansas Children's Hospital Research Institute, and the Arkansas Pediatric Clinic—testimony to the broad range of

research and clinical support for this program. Currently, Joanne Szabo, MD, is the Director of the Summer Science Program and Gwyn Hobby is its Coordinator.

From 1992 to 2007, over 180 students and 100 pediatric research faculty members have participated in the program. This year, the program selected its 13 participants from 25 applications, and received the support of 10 faculty members serving as mentors. Since the UAMS College of Medicine supports the program, Arkansas residents receive priority in selection. In addition to attending Arkansas schools, recent applicants have attended Baylor, Case-Western, Duke, Pittsburgh, and Vanderbilt.

The Summer Science Program has an application deadline of March 1, 2008, for next year's participants. Any faculty member wishing to share in the program as a mentor should contact [Dr. Szabo](#) or [Ms. Hobby](#).

### **Summer College Volunteers**

In addition to the thirteen college students that participated in the Summer Science Program, nine college students donated over 622 hours in research at ACHRI this summer. For more information on these students' projects and their projects, please visit the [summer project summary web page](#). Thank you to all the researchers who sponsored student volunteers! Ms. Robin Armstrong Director of ACH Volunteer Services, and the Volunteer Services staff have done an excellent job matching students seeking volunteer opportunities with researchers.

### **Request High School Student Volunteer Research Sponsor**

If you are interested in sponsoring a high school student who is seeking a volunteer position in research, please contact [Tanda Grisham](#) at 364-3571.

### **CONGRATULATIONS ACHRI RESEARCHERS!!!**

ACHRI is pleased to announce that in fiscal year 2007, funding at ACHRI topped \$20 million for the first time in its 15-year history. "ACHRI and the Department of Pediatrics are very excited with this growth in research funding, especially considering the current extramural funding environment. This reflects the commitment and diligence of our researchers," says Richard F. Jacobs, MD, FAAP, Horace C. Cabe Professor and Chairman, Department of Pediatrics, UAMS, and President, ACHRI. To learn more about the growth in research funding at ACHRI and UAMS, please visit our updated funding web page at <http://achri.archildrens.org/about/funding.htm>.

### **PRESIDENT'S CHOICE**

Stop by the bulletin board outside the research administration offices to see the poster featuring this month's President's Choice publications. The following articles were selected as this month's feature publications:

Tuzcu V, Bodtke JP, Best TH. Early detection of regional myocardial dysfunction in paced children with congenital complete atrioventricular block. *Pacing Clin Electrophysiol*. 2007 Jun;30(6):764-71.

Vargas PA, Perry TT, Robles E, Jo CH, Simpson PM, Magee JM, Feild CR, Hakkak R, Carroll PA, Jones SM. Relationship of body mass index with asthma indicators in Head Start children. *Ann Allergy Asthma Immunol*. 2007 Jul;99(1):22-8.

ACHRI would like to know about your published findings, as your articles are published, please email or mail a copy to [Phaedra Yount](#) (mail slot 842). The number of publications by our researchers is reported to hospital and ACHRI boards, so it is important that we receive an accurate count of the publications your research produces.

## NEW INDUSTRY-SPONSORED PROJECTS

PI	Agency	Project Period	Total Cost
Nicolaas Deutz	Sophia	8/07 - 9/09	\$120,540
Michael Schmitz	Purdue	7/07 - 8/08	\$88,600
Vickie Stefans	Omnicare	8/07 - 8/08	\$72,875

## RECENT GRANT AWARDS AND SUBMISSIONS

### New Awards

PI	Agency	Project Title	Project Period	Total Funding (All Years)
Mary Aitken	ADH	TBI Implementation Partnership Development and Evaluation of Targeted	5/1/07-3/31/08	\$12,472
Mary Aitken	HRSA	ATV Safety Educational Strategies for Rural Children	9/1/07-8/31/10	\$593,302
Patrick Casey	Boston Medical	CSNAP 2007-08	8/1/07-7/31/08	\$71,927

### Extramural Submissions

PI	Agency	Project Title	Project Period	Total Funding (All Years)
Mary Aitken	CDC	Strike Out Child Passenger Safety	2/19/07-9/29/09	\$230,990
Sunny Anand	Gerber Foundation	Does Noninvasive Electrical Stimulation of Acupuncture Points Reduce Heelstick Pain in Infants?	11/2007-11/2009	\$389,684
Mark Heulitt	Flight Attendant Research Medical Institute	Determination of the Effects on Respiratory Mechanics of Prenatal and Postnatal Tobacco Smoke Exposure on the Developing Lung	7/1/08-6/31/11	\$299,837
Judith Weber	Robert Wood Johnson	School Partnership for Obesity Research and Prevention (SPORT)	11/1/07-12/31/08	\$59,999

### Intramural Grant Submissions

PI	Agency	Project Title	Project Period	Total Funding (All Years)
Sarah Blossom	CUMG	Establishing a Link between Maternal Immune Dysfunction and Congenital Heart Defects	12/1/07-11/30/09	\$40,000
Steve Bowman	CUMG	As Assessment of Trauma Care in Arkansas: Resources, Capabilities and Quality of Care	12/1/07-11/30/08	\$27,350
Marielle Engelen	CUMG	Development and Applicability of a New Stable Isotope Method to Determine Protein Requirements in Critically Ill Children	12/1/07-11/30/09	\$39,955
Larry Hartzell	CUMG	Auditory/Visual PVT in Adults and Children	9/1/07-8/31/09	\$22,437
Marie Lacy	CUMG	The Role of Polymorphonuclear Neutrophils in Regulating Adaptive Immune Responses in Chlamydial Infections	11/1/07-10/31/09	\$39,814
Amir Mian	CUMG	Outcome Prediction of Immune-	12/1/07-5/30/08	\$39,377

		Compromised Pediatric Patients with Fever and Neutropenia: A Risk-Stratified Productive Model Based on Inflammatory Markers, Acute Phase Reactants and Coagulation System		
Gal Shafirstein	CUMG	Personalized Interactive Laser Therapy of PWS (PILTP)	12/1/07-11/30/09	\$39,412
Rosie Simmen	CUMG	Diet, Stem Cells, and Prevention of Breast Cancer	11/1/07-10/31/09	\$39,981
Muayyad Tailounie	CUMG	Possible Neuroprotective Effects of Ketamine in Children with Severe Traumatic Brain	10/1/07-6/1/09	\$39,992
Volkan Tuzcu	CUMG	Genetic Testing in Congenital Long QT Syndrome	1/1/08-12/30/10	\$37,448
Jennifer Woods	CUMG	Knowledge of Bone Health among Young Hormonal Contraception Users	12/1/07-11/30/09	\$37,984
Judith Weber	CUMG	Feasibility of an Innovative Parental Participation Program, and School Staff Role Modeling, to Improve Child Outcomes in a School-Based Obesity Prevention Study	11/1/07-4/30/09	\$40,000

## **EREQUEST - CHECK YOUR PROFILE**

ACHRI has databases that send out automated notices providing you with information about your grant accounts. Examples include:

New Research Account Notification (Project Account Has Been Established)  
 Current Balance Information (Deficits and/or Salary and Fringe Balances)  
 Account Close Notification (Budget Period for Project Account to End)

These notices are sent to the e-mail address that is listed in your eRequest profile. Please review your eRequest profile and edit as needed. To access your profile:

- Login to the eRequest System
- Locate the toolbar under the heading erequest @ ach and drag your cursor over My Profile and select My Profile in the dropdown box.
- Edit the information as needed on the Edit Your User Profile screen. Make sure your e-mail address is correct.
- Select any or all of the notification options which will provide you with e-mail updates as your requests progress through the approval process. These notifications are optional and will not affect the receipt of the notifications listed at the beginning of this e-mail.
- Click Update Info.

Your profile information may be edited at anytime. If you need assistance in editing your profile or have questions regarding the automated notices, please contact Leslie Montgomery (364-6546) or Inna Selivra (364-6554).

## **UAMS AND ACHRI SWITCHING PROGRAMS FOR RESEARCH PROTECTION AND TRAINING**

On Tuesday, September 4, 2007, the UAMS Human Research Protection Program (HRPP) in cooperation with the Arkansas Children's Hospital Research Institute HRPP is switching from the UAMS on-line training module to the CITI program to meet institutional requirements for human subject research protection and HIPAA for research training.

If you have met the previous IRB educational requirements and have up-to-date certificates, you will not need to do anything until your current training certificates expire! Starting September 4, 2007, if your human subjects training certificate has expired you will go to <https://www.citiprogram.org> and register your name. You will be able to affiliate with an institution of your choice. If you work primarily on the UAMS campus, you will want to pick UAMS; if you work primarily on the ACH/ACHRI campus, pick ACHRI. You may affiliate with more than one institution.

You will notice that UAMS and ACHRI have coordinated efforts so that no matter which institution you choose to affiliate with the training programs are essentially the same and the UAMS IRB will accept a certificate from either organization.

#### Special Instructions:

- As in the UAMS on-line training program in years past, there are 2 options depending on the focus of your research interests. If you primarily conduct Biomedical research, you will want to choose the Biomedical module. Likewise, if you only do Behavioral research, select only the Behavioral module. This is a pick and choose option, you are not required to take both. There is a HIPAA training module incorporated into either of the options so that you no longer are required to take a separate HIPAA course.
- All modules will require 100% pass on each section and you can take the sections as many times as you need.
- Look for CITI workshops and additional information coming your way soon.

For more information contact Margie Brackeen, Regulatory Compliance Specialist for ACHRI at 364-3586 or [brackeenmargiei@uams.edu](mailto:brackeenmargiei@uams.edu).

#### **UPCOMING EDUCATION OPPORTUNITIES**

For a complete listing of research education opportunities at ACHRI, please visit our [Research Education Calendar of Events](#) on the ACHRI Web page.

#### **ACHRI RESEARCH CORES AND SHARED EQUIPMENT**

For a complete listing of research cores and shared equipment available at ACHRI, please visit the research equipment web page at <http://achri.archildrens.org/resources/CORES.htm>.

#### **FUNDING OPPORTUNITIES**

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](http://achri.archildrens.org/resources/funding_opp.htm)). This file will be updated twice monthly. Bookmark the page! The listing of funding opportunities is located on the intranet; you must have access to ACH webapps to open the file.

#### **GRANT PREPARATION TIP: NIH REGIONAL SEMINARS HAVE MUCH TO OFFER**

Would you like to learn more about the National Institutes of Health's extramural program funding and grants administration? Each year NIH hosts two regional two-day seminars that provide information about the NIH funding process, from opportunity identification and application preparation through post-award administration. NIH has announced the locations and dates for its 2008 regional seminars.

**Presentations are targeted towards research administrators, new and experienced investigators, post docs and trainees.**

- The first 2008 seminar will be held San Antonio, Texas, on March 25 and 26, 2008, hosted by the University of Texas Health Science Center at San Antonio. NIH electronic research administration computer labs will be offered on Thursday, March 27, 2008.
- The second seminar will be held in Chicago on June 19 and 20, 2008, hosted by the University of Illinois at Chicago. NIH electronic research administration computer labs will be offered on Tuesday, June 18, 2008.

Opportunities for informal interactions between seminar participants and NIH grants management, program, policy, and review staff are incorporated into the program and such interactions are highly encouraged. Questions on program content may be directed to Cynthia Dwyer, 2008 NIH Regional Seminar Coordinator, at 301-594-4493 or [dwyerc@mail.nih.gov](mailto:dwyerc@mail.nih.gov). Links to program and registration information and logistics from previous NIH Regional Seminars are available from the NIH Office of Extramural Research Regional Seminar Web site at: <http://grants.nih.gov/grants/seminars.htm>