



**June 2008**

**PEDIATRIC FELLOWS' RESEARCH DAY 2008**



**At the Fellows' Research Day, Guest Researcher Dr. Kathleen Neville of Children's Mercy Hospitals and Clinics in Kansas City, Missouri, discusses the day's activities with Dr. Chris Smith, Vice-Chair for Education for the Department of Pediatrics.**

On Tuesday, May 13, 2008, UAMS Department of Pediatrics, ACH, and ACHRI co-sponsored the annual Fellows' Research Day. This event is an opportunity for pediatric fellows based at ACH to report on their research activities to their colleagues.

Each fellowship requires a research project, and the day is a forum for fellows to present their research for the last year. Each fellow has a research mentor and scholarship oversight committee under which they develop, conduct, and report a research project. Ideally, the work culminates in a paper accepted for publication in a peer-reviewed journal.

During the day, 16 fellows submitted abstracts and gave presentations on their research. The fellows gave their presentations in the Cress Board Room at ACH. Awards were presented for best and runner up for abstracts and presentations. Cardiology fellow Dr. Rahel Zubairi won Best Abstract and Best Presentation for his project, Risk Factors for Prosthesis Failure in Pulmonary Valve Replacement. Dr. Douglas Seglem, a Neonatal-Perinatal fellow, won runner-up for abstracts; and Dr. Satya Hegde, a Pulmonary fellow, won runner-up for presentations. The quality of this year's abstracts and presentations reflects the commitment of the programs to train first-class researchers and sub-specialists.

The day's program also included a guest researcher, Dr. Kathleen Neville, MD, Assistant Professor of Pediatrics in the Divisions of Hematology/Oncology and Clinical Pharmacology and Medical Toxicology at Children's Mercy Hospitals and Clinics in Kansas City, Missouri. She has a Master's Degree in Clinical Investigation and is Board certified in Pediatrics, Pediatric Hematology/Oncology, and Clinical Pharmacology. Dr. Neville has an NIH/NHBLI-funded Mentored Career Development Award (K23) and several other awards that support her research endeavors in the areas of pharmacogenetics, sickle cell disease, and pain in children. She assisted with critiquing the research abstracts and presentations by the fellows. At the end of the presentations, Dr. Neville gave feedback and encouragement to the group.

While the presentations were prominent during the Pediatric Fellows' Research Day, other activities occurred. The evening before, the Department hosted their first Fellows' Banquet. At the banquet, Dr. Neville spoke about mentoring and choosing a mentor. Tuesday morning, Dr. Neville gave Grand Rounds before presiding at the research presentations.

Ms. Tricia Edstrom, Education Specialist, Residency/Fellowships, and Ms. Lela Rooker, Data Coordinator, from the Department of Pediatrics organized the Pediatrics Fellows' Research Day and the banquet. Dr. Chris Smith, Vice-Chair for Education for the Department of Pediatrics, introduced the presenters. Other volunteers from ACH, ACHRI, and UAMS assisted with evaluating the abstracts and presentations. Abstract reviewers were Dr. Jim Robbins, Dr. Rosalia Simmen, and Ms. Suzanne Speaker. Judges for the presentations were Dr. Richard Blaszak, Ms. Margie Brackeen, Dr. Amir Mian, and Dr. Mick Tilford. Program Coordinators Connie O'Campo, Donna Williams, and Lisa Pulliam also provided valuable assistance throughout the day.

A big thank you goes out to all the volunteers, research mentors, and scholarship oversight committees for their participation and support. Without them, this year's Fellows' Research Day would not have been such a success!

### **Presentations during the Pediatrics Fellows' Research Day**

#### 1st Year Fellows

Katie Burns, Developmental-Behavioral Pediatrics - Increasing Prevalence of Hospitalizations of Medically Complex Children

Katie Clement, Critical Care Medicine - Evaluation of Neurally Versus Pneumatic Triggered Breaths in a Pediatric Animal Model

Matt Jaeger, Emergency Medicine - Optic Nerve Sheath Diameter by Bedside Ultrasound in Normal Children

Laura Ortmann, Critical Care Medicine - Predicting Outcome in Pediatric Cardiac Arrest: The Role of Cerebral Oxygenation Monitoring

Michelle Smoot, Emergency Medicine - Rescuer Fatigue in Infant CPR

Chandra Srinivasan, Cardiology - Standardized Management Improves Outcomes after Norwood Procedure

Rahel Zubairi, Cardiology - Risk Factors for Prosthesis Failure in Pulmonary Valve Replacement

#### 2nd/3rd Year Fellows

Angela Chandler, Neonatal-Perinatal Medicine - The Effect of Inhaled Nitric Oxide on Cerebral Blood Flow in Premature Infants

Hassan Dbouk, Pulmonary - Purinergic Modulation of Carotid Body Glomus Cell Function during Postnatal Development

Greg Dupuis, Emergency Medicine - High Fidelity Simulation for Pre-hospital Providers: Does It Change Clinical Practice?

Satya Hegde, Pulmonary - Role of Angiopoietin-2 in the Pathogenesis of BPD in a Baboon Model

Tommy Murillo, Emergency Medicine - Reduction of Blood Culture Contamination Rates in the Emergency Department

Jessica Nichols, Infectious Disease - Toll-like Receptor 2 (TLR2) Deficiency Leads to Increased Th17 Infiltrates in Experimental Brain Abscesses

Douglas Seglem, Neonatal-Perinatal Medicine - Electrophysiologic Development of Mammalian Retina Tissue Explants During Long Term Culture

Muayyad Tailounie, Critical Care Medicine - Ultrasonography of Neonatal Blood Vessels: Implications for Vascular Access

Rob Williams, Emergency Medicine - ATV Video Proves Efficacious in Dissemination of Safety-Related Information

### **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.

- Cleves MA, Malik S, Yang S, Carter TC, Hobbs CA. Maternal urinary tract infections and selected cardiovascular malformations. *Birth Defects Res A Clin Mol Teratol.* 2008 May 1;82(6):464-473.
- Zeng Z, Velarde MC, Simmen FA, Simmen RC. Delayed parturition and altered myometrial progesterone receptor isoform expression in mice null for kruppel-like factor 9. *Biol Reprod.* 2008 Jun;78(6):1029-37.

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 publication by ACHRI researchers and their collaborators, please visit the [publications web page](#).

### **NEW CRA ON CAMPUS**

ACHRI has a new Certified Research Administrator. Leslie Montgomery passed the certification exam administered by the Research Administrator's Certification Council. The certification exam is designed to establish the fundamental requirements of knowledge necessary for being certified as a professional research or sponsored programs administrator. The exam covers several areas including project development and administration, legal requirements, financial management, and general management as they apply to the field of research. Congratulations Leslie!!!!

### **UNALLOWED EXPENDITURES ON INTRAMURAL GRANTS**

Please note that membership dues to societies and professional organizations are not allowed expenses on ACHRI's intramural grants (i.e., ABI, CUMG, Lyon, or Student and Clinical Staff grant programs). If you have any questions about expenses that are allowed on your grant, please contact Leslie Montgomery at 364-6546.

### **NEW ACHRI STUDENT AND CLINICAL STAFF RESEARCH INTRAMURAL GRANT PROGRAM**

Deadline: September 15

Amount per Award: up to \$2,000

Eligibility: graduate students, medical students, or clinical staff

The ACHRI Student and Clinical Staff Research Intramural Grant Program was created to provide graduate students, medical students and clinical staff with a funding mechanism to support pediatric research activities.

Funds will be available once each year. A maximum of \$10,000 will be awarded per year by ACHRI. The maximum amount of an award will be \$2,000 for a period of 12 months. Principal Investigators are not allowed to have concurrent funding from ACHRI.

[Click here](#) to read the complete description of the program. If you have questions, please contact [Amy Stalls](#) (phone: 364-3627)

### **ABI PROGRAM ANNOUNCEMENT**

This year ACHRI has tentatively around \$850,000 available for the ABI Competitive Research Grant Program. (This is subject to change). The deadline for the competitive program is 5:00 p.m. on Friday, August 1, 2008. ABI-funded scientists focus on agriculture and basic and clinical scientific research that will lead to health improvement, especially in the area of tobacco-related diseases.

This year there have been some changes that were made to the program.

1) We are introducing a third category of support: Core Support. This category was established to provide investigators and their collaborators and departmental sections the ability to obtain new equipment and upgrade laboratory facilities. Investigators, regardless of any concurrent ACHRI/ABI support, are eligible for Core Support of up to \$125,000.

2) Upon receipt of an award from the ABI program, the PI will have six months from the date of the award to set up an account and begin their research. They no longer have to wait until the following fiscal year to begin using their research.

For more information about the on ACHRI/ABI Competitive Grant Program, [click here](#).

### **UPCOMING COORDINATOR MEETING**

When: June 19th from 11:30 – 1:00

Where: Sturgis S-120

Topic: The New Clinical Trial Management System (CTMS) replacing the Subject Tracking System (STS).

If you have questions regarding the meeting, please contact Janet Stormont at 364-2760.

### REMEMBER TO UPDATE YOUR CLINICALTRIALS.GOV REGISTRY INFO

If you are registered with clinicaltrials.gov, you should update your online records every six months **at a minimum**. If there are changes in your study's recruitment status or protocols or when data are published, you should update those changes immediately. You are allowed to make updates as often as needed.

To learn more about who should register and how to register, review the online brochure at <http://prsinfo.clinicaltrials.gov/registering.pdf>. If you have questions, please contact Tanda Grisham at 364-3571.

### ENCRYPT THAT EMAIL!

*Did you know that you can encrypt the emails you send outside our walls?*

The process is very easy and you can use the same method if you are using the UAMS or ACH email systems. Simply put [secure] as the first thing in the subject line of your email. This will send a special email to your recipient with instructions on how to access your message. In these days of hackers and other malicious activity take a moment to use this method of email each time you send sensitive information outside our community. It is easy and free; try it today!

### NIH PUBLIC ACCESS POLICY

If you are publishing findings from NIH-funded research, it is now mandatory that your peer-reviewed manuscripts be made publicly available no later than 12 months after the official date of publication. The NIH Public Access Policy applies to all final peer-reviewed manuscripts accepted for publication after April 7, 2008. NIH has developed a web site (<http://publicaccess.nih.gov/>) that offers policy guidance, answers to frequently asked questions, and other information to assist you in complying with the policy. If you have questions regarding the policy or would like assistance in uploading a manuscript, please contact [Phaedra Yount](#) at 364-2469.

### NEW INDUSTRY-SPONSORED PROJECTS

PI	Agency	Project Period	Funding
Paula Morris	Roche	5/08 - 4/11	\$135,697

### RECENT GRANT AWARDS AND SUBMISSIONS

New Awards				
PI	Agency	Project Title	Project Period	Total Funding
Karen Farst	Ambulatory Pediatric Association	Trends in Child Maltreatment Hospitalization in Young Children from 1997-2005	7/1/08-6/30/09	\$9,891
Jack Hinson	NIH	STTR - subcontract	5/1/08-4/30/10	\$83,403
Laura James	NIH STTR	Dipstick Assay for Detection of Acetaminophen Protein Adducts	5/1/08-4/30/10	\$199,751
Submissions				
PI	Agency	Project Title	Project Period	Total Funding
Sarah Blossom	Autism Speaks	Comparing Strain Sensitivity to Neuroimmune Alterations in a Mouse Model of Environmentally-Induced Autism	10/01/08-9/30/11	\$240,000
Kathleen Gilbert	NIH	Determining how Trichloroethylene Alters CD4 + T Cell Function	2/1/08-1/31/11	\$1,102,500

Laura James	NIH	Metabolism and Toxicity of Acetaminophen in Preterm Infants	4/1/09-3/31/14	\$59,150
Roger Rank	NIH	Mechanism of Inflammation in Chlamydial Genital Infection	12/1/08-11/30/13	\$2,850,000

### 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.

### 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 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.

### GRANT WRITING TIP: Wow Them with Your Public Health Relevance Statement

NIH requires applicants to submit public health relevance statements in grant applications to ensure the description of the projects' potential to improve public health is clearly articulated. The public health relevance statement should be written in plain language that can be understood by a general, lay audience, as well as your reviewers and colleagues. NIH uses these public health relevance statements for portfolio analyses, to identify research highlights to Congress and to make the importance of the research clear to the public.

Applicants should enter a brief statement of public health relevance in field 7, Project Narrative, on the Other Project Information component of the SF 424 (R&R) application. If using the PHS398 application, enter this information into the Relevance field of Form Page 2.

Statements of public health relevance are highlighted in a new field, separate from the project abstract, on the [CRISP](#) (Computer Retrieval of Information Scientific Projects) tool found on the new [NIH Report Web site](#). (Source: Office of Extramural Research, NIH Extramural Nexus, May 2008)

### Considering a CUMG Grant Application?

The next deadline for CUMG grant applications is September 2. On June 17 (2:00 to 3:30 p.m., Brandon North A and B), ACHRI will hold a workshop on the CUMG grant program. For more information, contact [John Gregan](#) (364-6296) or [Amy Stalls](#) (364-3627).

### ABI Grant Application Workshop Repeat

On June 11 (2:30 to 4:00 p.m., East Campus Room 60), ACHRI will repeat the workshop on the ABI grant program. The deadline for applications for the ACHRI/ABI Competitive Research Grant Program is August 1. For more information, contact [John Gregan](#) (364-6296) or [Amy Stalls](#) (364-3627).

### NIH ANNOUNCES CHANGES TO ENHANCE PEER REVIEW

National Institutes of Health (NIH) Director Elias A. Zerhouni, M.D., announced today at the 96th Meeting of the Advisory Committee to the Director (ACD) critical changes to enhance and improve the NIH peer review system.

View the related press release: <http://www.nih.gov/news/health/jun2008/od-06.htm>

More information on the Enhancing NIH Peer Review initiative is available online: <http://enhancing-peer-review.nih.gov/>

