

Research News

Newsletter of
The University of Kansas Medical Center
Department of Pediatrics



An Introduction to Research News

Ann M. McGrath, Ph.D.

Behavioral Sciences

amcgrath@kumc.edu

When I first joined the faculty at KUMC, I was very excited to learn about so many exciting and important research projects that were going on within the Department of Pediatrics. Learning this information was key in my decision to become part of the faculty at KUMC. However, as I have spent more time here I have learned that there is even more research going on in our department than that of which I was originally aware.

For this reason I thought it would be helpful if we had a central information source regarding research going on within our department, and thus the Research News was born. This newsletter will be published quarterly to all faculty and residents within the Department of Pediatrics at KUMC. It is intended to inform faculty and residents of exciting research projects going on within our department and to inspire new research as well. Each issue will have information both on current projects and publications as well as tips from our research office (KUMC Research Institute and Research Administration) that may be helpful to researchers.

Please feel free to forward the newsletter to any parties that you feel may be interested, including candidates and colleagues. Also, please let me know if you have any ideas for stories or contributions you would like to make to the newsletter. Your ideas and efforts would be greatly appreciated!

A Message From Our Chair

I want to congratulate Ann M. McGrath, PhD for volunteering to create and edit a department research newsletter. It will be a welcome vehicle for improved communication among our faculty on research issues. Increased communication will in turn foster more collaboration both within and outside the department. These are vital elements for growth in an academic department.

Our departmental extramural research funding has grown steadily over the past 5 years to \$1.6 million direct costs in 2002. Although we are going in the right direction, there is still much room for growth. Most

In this Issue:

An Introduction to Research
News **Page 1**

A Message from Our Chair
Page 1

Division Highlights:
Cardiology **Page 2**

Human Subjects Committee
Deadlines **Page 2**

Research Tips **Page 3**

Current Grants **Page 4**

Recent Publications
Page 5

A Message From Our Chair (contd.)

departments of our size have approximately 30% of the faculty with some research funding. I think that is an attainable goal for us, but only with increased collaboration.

I will be sending Dr. McGrath all notices that I receive regarding research funding for listing in the newsletter.

Carol Lindsley, MD

Chair, Department of Pediatrics

Division Highlights: Cardiology

Each quarter the Research News will highlight one division within the Department of Pediatrics to focus in depth on what their current projects and goals are. The cardiology division generously agreed to be the highlighted division for our first newsletter.

As many of you know, the division of cardiology has three faculty members: Ken Goertz, M.D. (Chair), Leone Mattioli, M.D. and Geetha Raghuvver, M.D., M.P.H. This division historically has had excellent research efforts and this has continued with their newest addition.

Dr. Leone Mattioli has been with the Division of Cardiology since 1968. He has had several grants and research publications throughout his career, such as the mechanism of hypoxia induced pulmonary hypertension, the effect of hypoxia on leukocyte endothelial cells interactions, and telemedicine research. He describes his current research interests as the reliability of an analogue stethoscope for cardiac and lung sounds auscultation. Currently, Dr. Mattioli is working on a project with Drs. Belmont and McGrath (Behavioral Sciences Division) to develop new measures of cardiology resident skills and is co-investigator of studies of vascular function in children with high cholesterol.

Dr. Ken Goertz joined the division in 1980 and became chief of the division in 1996. Over his career Dr. Goertz has conducted research on the electrophysiology of single cardiac cells and clinical research in telemedicine on electronic stethoscopy.

Most recently, Dr. Geetha Raghuvver joined the division in July, 2001 after completing a fellowship at the University of Iowa Hospitals and Clinics. Dr. Raghuvver was a Young Investigator Award Finalist at the American College of Cardiology in March 2001. She had an active grant running at the University of Iowa ("The effects of altering dietary intake of protein and methionine on plasma homocysteine and endothelial function") but had to transfer her Principal Investigator (PI) duties prior to her departure. Currently, Dr. Raghuvver is the PI on a grant titled "Effect of statin therapy on vascular function in children" from the American Society of Echocardiography.

Human Subjects Committee Deadlines

Deadline**	Meeting
January 6	January 14
January 17	January 28
February 3	February 11
February 17	February 25
March 3	March 11
March 17	March 25
March 31	April 8

****all deadlines are at noon****

For more information, go to
<http://www2.kumc.edu/researchadmin/hs-meetdates.htm> or call 913-588-1240

Division Highlights: Cardiology (contd.)

As the division chief, Dr. Goertz anticipates research taking an even larger role in the division's future. His goals for the division are to continue to foster research for all members within the division. He hopes to increase the number of clinical faculty members in order to free up more time for research for himself, Dr. Mattioli and Dr. Raghuvver.

Research Tips: Searching for a Grant

Each edition the Research News will publish a few research tips that may be helpful for those trying to get a grant, publish a paper, prepare a talk, or complete some other research endeavor. This quarter's topic is how to search for a grant. Some people think the most challenging part of research is coming up with an idea. However, anyone who has ever completed a research project from conception through publication will tell you that this is most definitely not the case! Once you come up with an idea, the most difficult part is finding someone who will pay you to complete the project – a granting agency. There are several types of granting agencies out there, from public to private, from national to state to local.

To find out about grants that are out there that may be appropriate for you, there are several things you can do. First, you can do an on-line search – a relatively effortless and very quick process. To do this simply go to www.kumc.edu, click on Research, and then Research Administration and go to COS/SPIN. As you will see on this page, COS and SPIN are two international websites that our university subscribes to that are updated daily and allow you to search for grants in your specific area. On the COS website, simply click on Find Funding and COS Funding Opportunities. I find that the Main Search option is best as it allows you to define exactly what type of grant you hope to find. On the SPIN website, just type in a search word on their main page to do a simple search, or click on Advanced Search (just below the simple search) to be more specific to your search.

Another option is to contact Vicky Eaton, the Director of Pre-Award at the KUMC Research Administration (588-1239). Vicky and her staff are very helpful and have several tools available to help you in your search. One of the tools they have available is an individual "Funding Opportunities & Notices" Folder that can be inserted right into your GroupWise e-mail system. This service has Vicky and her staff do all of the searching for you. When you have a free moment, you simply sift through the emails they send to this folder to see if any of the grant opportunities are right for you (the emails do not come to your regular GroupWise account to clog up your mailbox).

Future Topics

Do you have ideas for future topics in the grant tips section of Research News? If so, please email them to amcgrath@kumc.edu or call 588-5928.

Thanks!

Finally, as you may know, the Department of Pediatrics has its very own Research Committee. This committee is available for your assistance should you want to write a grant, but need assistance. We are available for everything from brainstorming to proofreading. Dr. Michael Rapoff is chair of this committee; please contact him if you would like to come to one of our meetings to discuss your ideas with our team to see how we can help (588-6323 or mrappoff@kumc.edu), or feel free to contact any of the other members of the Research Committee with questions (Harsohena Ahluwalia, M.D., John Belmont, Ph.D., Paul Hyman, M.D., Ann McGrath, Ph.D., Ph.D., Talkad Raghuvver, M.D., Jon Scheinman, M.D., Travis Thompson, Ph.D., Dave Richman, Ph.D.).

Current Pediatric Grants

Casey, J. (PI) 08/02 – 08/03
“Kabi international growth study”
Pharmacia & Upjohn

Casey, J. (PI) 06/02 – 05/03
“The genetics and neuroendocrinology of short stature study”
Lilly

Casey, J. (PI) 08/02 - 08/03
“Genentech national cooperative growth study (NCGS)”
Genentech

Hyman, P.E. (PI) 07/02 - 6/03
“Diagnosis and treatment of pediatric functional
dyspepsia”
Hall Foundation Direct Costs \$360,000

Kanarak, J. (PI), Perry, G. (Co-PI) 07/1/02-6/30/03
“Cystic Fibrosis Grant”
Cystic Fibrosis Foundation Direct Costs \$18,852

McGrath, A. (PI) 07/02 - 06/03
“Obesity among school age children in the state of
Kansas”
Sunflower Foundation Direct Costs \$137,383

Raghuveer, G. (PI) Mattioli, L (Co-PI) 07/02 - 06/03
“Effect of statin therapy on vascular function in children”
American Society of Echocardiography Direct Costs \$75,000

Rapoff, M. (PI) 01/99 - 12/02
"Adherence to inhaled corticosteroids in childhood asthma"
National Institute of Child Health & Human Development Direct Costs \$190,847

Rapoff, M. (PI) 10/02 - 09/03
"Headstrong: A novel minimal contact behavioral intervention for recurrent pediatric headache"
AstraZeneca Pharmaceutical Company Direct Costs \$50,000

Shaw, P. (PI) FY2002
“Healthy Steps and Telemedicine”
Prime Health Foundation Direct Costs \$61,950

Shaw, P. (PI) FY 2002
“Comparing the addition of healthy steps care to traditional pediatric services alone”
Prime Health Foundation

Travel Grants

Did you know that KUMC Research Administration offers **Travel Grants** for faculty for national and international travel? The deadlines are January 6, May 1 and September 1 and the grant covers transportation only. The application forms and further information are online at <http://www2.kumc.edu/researchadmin/travel.htm>.

For more information contact Donna Agnew at 913-588-5439.

Lowry, J. (PI), Shaw, P. (Co-PI) **FY 2001 - 2003**
“Lead and its effects of clytochrome P450”
Hall Family Foundation Direct Costs \$75,000

Shaw, P. (PI), Jackson, M. (Co-PI) **FY 2001 - 2002**
“Speak Out for KC Kids”
Hall Family Foundation Direct Costs \$80,000

Shaw, P. (PI) **FY 2001 - 2002**
“Epidemiologic study of cystic fibrosis: A multicenter, longitudinal follow-up study of patients with cystic fibrosis for monitoring pulmonary function, pulmonary exacerbations and the safety of long-term treatment with pulmozyme (dornase alfa)”
Genetec

Shaw, P. (PI) **FY 2001 - 2002**
“A double-blind, randomized, placebo-controlled surveillance study of asthma event outcomes in subjects receiving either usual pharmacotherapy of asthma or usual pharmacotherapy plus salmeterol 42 mcg (2 puffs) twice daily”
Glaxo-Smith Kline

2002 Pediatric Publications

Publication information was determined by doing a Medline/PsychInfo search, and from information sent by faculty. As a result, the formats presented below are not uniform. The general structure is authors on the first line, title on the next line, and journal information on the third line. If you have 2002 publications that are not on this list, please let me know and I will add them to the next newsletter.

Ahluwalia, -H-S; Lukaris, -A; Lane, -C-M; Blyth, -C
Angioid streaks with congenital hypertrophy of the retinal pigment epithelium: an association or a mere coincidence?
Eye. 2002 Sep; 16(5): 645-6.

Ahluwalia, J., Richter, K., Mayo, M., **Ahluwalia, H.**, Choi, W., Schmelzle, K., & Resnicow, K.
African American smokers interested and eligible for a smoking cessation clinical trial.
Ann Epidemiol 2002; 12:206-212.

Ardinger HH, Ardinger RH.
Historical perspectives of velo-cardio-facial syndrome.
Progress in Pediatric Cardiology 2002; 15: 89-92.

Ardinger HH, Ardinger RH.
Clinical presentation of velo-cardio-facial syndrome.
Progress in Pediatric Cardiology 2002; 15: 93-97.

Bunag RD, Thomas CV, **Mellick JR**.
Ketanserin versus urapidil: age-related cardiovascular effects in conscious rats.
Eur J Pharmacol. 2002 Jan 18;435(1):85-92.

Burklow, K., **McGrath, A.**, Kaul, A.
Management and prevention of feeding problems in young children with prematurity and very low birth weight.
Inf Young Children 2002; 14(4): 19-30.

Chada, V., Garg, U. & Warady, B.
Citrate clearance in children receiving continuous venovenous renal replacement therapy.
Pediatr Nephrol (2002) 17:819-824.

Clark, P., Ekekezie, I, Kaftan, H, Castor, C, Truog, W.
Safety and efficacy of nitric oxide in chronic lung disease.
Arch Dis Child Fetal Neonatal Ed 2002; 86:F41-F45.

DiLorenzo D, Hillemeier C, **Hyman PE**, Loening-Baucke V, Nurko S, Rosenburg A, Taminiu J.
Manometry studies in children: Minimum standards for procedures.
Neuro Gastroenterol & Mot 14:411-420 2002

Hagopian,-Louis-P; Rush,-Karena-S; **Richman,-David-M**; Kurtz,-Patricia-F; et al.
The development and application of individualized levels systems for the treatment of severe problem behavior.
Behavior-Therapy. 2002 Win; Vol 33(1): 65-86.

Hyman,-Paul-E; Bursch,-Brenda; Beck,-David; DiLorenzo,-Carlo; Zeltzer,-Lonnie-K
Discriminating pediatric condition falsification from chronic intestinal pseudo-obstruction in toddlers.
Child Maltreatment; 2002 May; Vol 7(2): 132-137.

Hyman,-Paul-E; Bursch,-Brenda; Sood, M., Schwankovsky, L., **Cocjin, J.**, & Zeltzer,-Lonnie-K
Visceral pain-associated disability syndrome: A descriptive analysis.
Journal of Pediatric Gastroenterology and Nutrition, 35, 663-668.

Hyman PE, Garvey III TQ.
Return of alosetron.
Expert Opin Drug Saf 1:1-4 2002

Iwata,-Brian-A; Roscoe,-Eileen-M; Zarcone,-Jennifer-R; **Richman,-David-M**
Environmental determinants of self-injurious behavior.
Schroeder, Stephen R. (Ed); Oster-Granite, Mary Lou (Ed); et-al. (2002). Self-injurious behavior: Gene-brain-behavior relationships. (pp. 93-103). Washington, DC, US: American Psychological Association. xiii, 405

Kondo,-Shinji; Schutte,-Brian-C; Richardson,....**Ardinger,-Holly-H**; et al.
Mutations in IRF6 cause Van der Woude and popliteal pterygium syndromes.
Nat-Genet. 2002 Oct; 32(2): 285-9.

Lindauer,-Steven-E; Zarcone,-Jennifer-R; **Richman,-David-M**; Schroeder,-Stephen-R
A comparison of multiple reinforcer assessments to identify the function of maladaptive behavior.
Journal-of-Applied-Behavior-Analysis. 2002 Fal; Vol 35(3): 299-303.

Mousa,-Hayat; **Hyman,-Paul-E**; **Cocjin,-Jose**; Flores,-Alejandro-F; Di-Lorenzo,-Carlo
Long-term outcome of congenital intestinal pseudoobstruction.
Dig-Dis-Sci. 2002 Oct; 47(10): 2298-305.

Nissenbaum MS , Tollefson N , **Reese , RM**

The interpretative conference: Sharing a diagnosis of autism with families.
Focus on Autism and Other Developmental Disabilities, (2002) 17, 30-43

Okah, F., Choi, W., Okuyemi, K., & Ahluwalia, J.

Effect of children on home smoking restriction by inner-city smokers.

Pediatrics 2002 ; 109; 244-249.

Page-Goertz,-Sallie

Breastfeeding beyond 6 months. Practical support and solutions.

Adv-Nurse-Pract. 2002 Feb; 10(2): 45-7, 73.

Page-Goertz S.

Hyperbilirubinemia and Hypoglycemia. In Walker, M (ed). Core curriculum for lactation consultant practice.

Boston: Jones & Bartlett Pub, Inc. 2002.

Paria, B.C., Reese, J., Das, S.K., Dey, S.K.

Deciphering the cross-talk of implantation: Advances and challenges.

Science; vol 296; 2185-2188.

Rapoff, M.A.

Assessing and enhancing adherence to medical regimens for juvenile rheumatoid arthritis.

Pediatric Annals, 31, 373-379. (2002).

Rapoff,-Michael-A; Belmont,-John; Lindsley,-Carol; Olson,-Nancy; Morris,-Judy; Padur,-Joni

Prevention of nonadherence to nonsteroidal anti-inflammatory medications for newly diagnosed patients with juvenile rheumatoid arthritis.

Health-Psychol. 2002 Nov; 21(6): 620-3.

Richman,-David-M; Lindauer,-Steve-E

Identifying operant functions for tics in children with mental retardation.

Behavioral-Interventions. 2002 Jul-Sep; Vol 17(3): 179-190.

Richter, K., **Ahluwalia, H.**, Mosier, M., Nazir, N. & Ahluwalia, J.

A population-based study of cigarette smoking among illicit drug users in the United States.

Addiction, 97, 861-869.

SantaCruz,-Karen-S; McKinley,-Elizabeth-T; Powell,-Ralph-D Jr; Hermreck,-Arlo-S; **Sonnino,-Robera-E**

Inflammatory myofibroblastic tumor of the gastroesophageal junction in childhood.

Pediatr-Pathol-Mol-Med. 2002 Jan-Feb; 21(1): 49-56.

Schwankovsky,-Lenore; Mousa,-Hayat; Rowhani,-Anita; DI-Lorenzo,-Carlo; **Hyman,-Paul-E**

Quality of life outcomes in congenital chronic intestinal pseudo-obstruction.

Dig-Dis-Sci. 2002 Sep; 47(9): 1965-8.

Sonnino RE

Life in the Boys' Club. In: This side of Doctoring : Reflections from Women in Medicine (Lo Chin, Ed).

Sage Publications, Inc, pp. 226-228, 2002.

Sonnino RE

Congenital and Surgical Disorders that Affect Respiratory Care (Ch 29). In: Perinatal and Pediatric Respiratory Care, Czervinske & Barnhart Eds; WB Saunders, 2002.

Sonnino,-R-E; Cross,-R-S; Tawfik,-O-W

Mediators of ischemia in preserved intestinal grafts.

Transplant-Proc. 2002 May; 34(3): 975-6.

Sood MR, **Cocjin J**, Di Lorenzo C, Reddy SN, Flores AF, **Hyman PE**.

Ileal manometry in children following ileostomies and pull-through operations.

Neurogastroenterol Mot 14:643-646, 2002.

Sood,-Manu-R; Schwankovsky,-Lenore-M; Rowhani,-Anita; Zangen,-Tsili; Ziring,-David; Furtado,-Theresa;
Hyman,-Paul-E

Water load test in children.

J-Pediatr-Gastroenterol-Nutr. 2002 Aug; 35(2): 199-201.

Truog,-William-E; Pallotto,-Eugenia; **Clark,-Perry**; Banks,-Beverly; Kaftan,-Harold-A; et al.

Interaction of endogenous endothelin-1 and inhaled nitric oxide in term and preterm infants.

Clin-Sci-(Lond). 2002 Sep 1; 103 Suppl 1: 294S-7S.

von-Weiss,-Renee-T; **Rapoff,-Michael-A**; Varni,-James-W; **Lindsley,-Carol-B**; **Olson,-Nancy-Y**; et al.

Daily hassles and social support as predictors of adjustment in children with pediatric rheumatic disease.

J-Pediatr-Psychol. 2002 Mar; 27(2): 155-65.

Williams,-Phoebe-Dauz; Williams,-Arthur-R; Graff,-J-Carolyn; Hanson,-Sandra; Stanton,-Anne; Hafeman,-Carol; **Liebergen,-Adrienne**; Leuenberg,-Karla; Setter,-Robyn-Karlin; Ridder,-Lavonne; Curry,-Heather;
Barnard,-Martha; Sanders,-Susan

Interrelationships among variables affecting well siblings and mothers in families of children with a chronic illness or disability.

J-Behav-Med. 2002 Oct; 25(5): 411-24.

Winborn,-Lisa; Wacker,-David-P; **Richman,-David-M**; Asmus,-Jennifer; Geier,-Deb

Assessment of mand selection for functional communication training packages.

J-Appl-Behav-Anal. 2002 Fall; 35(3): 295-8.

National Presentations

In future volumes, the newsletter will publish the presentation of any abstract or paper at a national or regional meeting. Therefore, when you make one of these presentations, send an email to amcgrath@kumc.edu to let me know. Thanks!