

# Children's Mercy Hospitals & Clinics Research Annual Report 2003

## Research Grants

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## Children's Mercy Hospitals & Clinics 2003 Research Grants

### New Grants – Corporate

Principal Investigator	Research Area	Award Amount
Abdel-Rahman, Susan	Anti-Fungal Treatment	\$54,579
Daniel, James	Acid Reflux Disease	\$34,325
Duke-Woodside, Marilyn	Migraine Prophylaxis	\$25,673
Friesen, Craig A	Neonatal Nutrition	\$85,644
	Neonatal Nutrition	\$61,257
Kauffman, Ralph E.	Post-operative Pain Management	\$26,596
	Post-operative Pain Management	\$29,572
	Post-operative Pain Management	\$34,630
	Hypnotic for Childhood Sleep Disorders	\$56,135
Kearns, Gregory	Type II Diabetes	\$19,917
	Attention Deficit Hyperactivity Disorder (ADHD)	\$105,772
	Asthma	\$25,449
Kilbride, Howard W.	Staphylococcal Sepsis in Newborns	\$46,260
Moore, Wayne	Growth Hormone Deficiency	\$8,180
	Growth Hormone Deficiency	\$4,625
Olitsky, Scott	Glaucoma in Children	\$11,375
Popovic, Jadranka	Diabetes	\$31,009
	Growth Failure	\$37,906
	Type I Diabetes in Children	\$24,956
Portnoy, Jay	Asthma	\$79,673
	Asthma	\$29,217
Sommerauer, John	Sepsis	\$48,488
Warady, Bradley A.	Renal Transplantation	\$83,186
Wicklund, Brian	Hemophilia	\$1,000

Woods, Gerald M.	Chronic Transfusion in Sickle Cell Disease	\$11,970
Yu, Y. Miles	Growth Hormone Deficiency	\$7,581
	<b>Total:</b>	<b>\$984,975</b>

### **Continuing Grants – Corporate**

<b>Principal Investigator</b>	<b>Research Area</b>	<b>Award Amount</b>
Alexander, John Jay	Seizure Disorder	\$211,997
Black, Philip	Cystic Fibrosis	\$119,656
Blowey, Doug	Hypertension in Children and Adolescents	\$24,176
	Voiding Dysfunction	\$16,001
	Pharmacokinetics	\$45,987
	Pharmacokinetics	\$5,604
	Autism	\$24,847
Butler, Merlin G	Neonatal Nutrition	\$150,000
Carroll, Robin	Acid Reflux Disease	\$38,829
Daniel, James	Metabolic Disease Registries	\$10,142
Dasouki, Majed	Asthma	\$40,099
Dowling, Paul	Asthma	\$100,995
	Asthma	\$42,489
	Seizure Disorder	\$52,378
Duke-Woodside, Marilyn	Seizure Disorder	\$115,586
	Anemia associated with Chemotherapy	\$54,053
Emami, Abbas	Neonatal Nutrition	\$51,758
Friesen, Craig A	Neonatal Nutrition	\$51,758
	Neonatal Nutrition	\$53,937
	Neonatal Nutrition	\$15,319
	Genotyping	\$27,225
Gaedigk, Andrea	Graft vs Host Disease	\$3,000
Gilman, Andrew Lee	Anti-Fungal Treatment	\$4,320

Hall, Robert T.	Neonatal Nutrition	\$878	
Hamilton, Marilyn	Diagnostic Kits	\$8,693	
	Diagnostic Kits	\$2,000	
	Diagnostic Kits	\$30,008	
Hetherington, Maxine	Coagulation Disorders	\$25,084	
Howard, Campbell P.	Growth Hormone Deficiency	\$61,188	
	Diabetes	\$115,660	
Huseman, Carol	Growth Failure in Turner Syndrome	\$37,411	
Jackson, Mary Anne	MMR Vaccine	\$31,864	
Kauffman, Ralph E.	Behavioral Disorders	\$144,278	
Kearns, Gregory	Anti-epileptic Drug Pharmacokinetics	\$42,138	
	Anti-histamine Pharmacokinetics	\$33,717	
	Pharmacokinetics in Premature Infants	\$8,500	
	Drug Metabolism/Pharmacogenetics	\$16,335	
	Diagnostic Imaging	\$78,430	
	Asthma	\$60,617	
	Antibiotic Pharmacokinetics	\$42,106	
	Epilepsy	\$34,684	
	Kilbride, Howard W.	Meconium Aspiration Syndrome (MAS)	\$20,646
	Lasky, Andrew	Juvenile Rheumatoid Arthritis	\$39,001
Juvenile Rheumatoid Arthritis		\$28,123	
Leeder, James Steven	Pharmacogenetics	\$26,340	
Lewing, Karen	Anti-Fungal Treatment	\$3,450	
Moore, Wayne	Growth Hormone Deficiency	\$40,009	
	Genetics	\$13,201	
	Pubertal Male Gynecomastia	\$8,210	
	Adrenal Gland Disorders	\$24,265	
	Growth Hormone Deficiency	\$28,203	
	Diabetes	\$10,000	
	Growth Hormone Deficiency	\$28,929	

	Growth Hormone Deficiency	\$249,375
	Growth Hormone Deficiency	\$49,466
	Growth Hormone Deficiency	\$21,152
	Growth Hormone Deficiency	\$90,112
	Growth Hormone Deficiency	\$89,960
	Growth in Small for Gestational Age Infants	\$51,534
	Type II Diabetes	\$98,175
	Type II Diabetes	\$49,912
	Growth Delay	\$7,549
Murphy, Jerome V.	Epilepsy	\$38,175
	Febrile Seizures	\$8,693
	Epilepsy	\$20,001
	Epilepsy	\$9,317
	Epilepsy	\$66
Nopper, Amy Jo	Eczema	\$19,844
Popovic, Jadranka	Growth Hormone Deficiency	\$32,946
Portnoy, Jay	Asthma	\$127,410
	Asthma	\$283,146
	Asthma	\$46,706
Simckes, Ari	Hypertension	\$42,461
Warady, Bradley A.	Anemia	\$62,443
	Anemia with Renal Disease	\$23,501
	Intraperitoneal Antibiotic Therapy	\$69,000
	Growth following Renal Transplantation	\$3,406
	Lymphoproliferative Disease in Renal Transplant Recipients	\$4,081
	Iron Treatment in Hemodialysis Patients	\$26,971
	Iron Deficiency in Pediatric Dialysis Patients	\$40,867
	Iron Deficiency in Pediatric Dialysis Patients	\$47,534
	Renal Transplantation	\$48,004
Wible, Kenneth L.	MMR Vaccine	\$75,372

Wicklund, Brian	Academic Achievement in Children with Hemophilia	\$30,710
	Immune Tolerance Induction in Hemophilia	\$10,000
	Chronic Hepatitis C	\$5,000
Woods, Gerald M.	Treatment of Hyperuricemia	\$247
<b>Total:</b>		<b>\$4,087,260</b>

### **New Grants – Federal**

<b>Principal Investigator</b>	<b>Sponsor</b>	<b>Research Area/Project Title</b>	<b>Award Amount</b>
Behm, Martin	National Institutes of Health	Drug Metabolism	\$84,740
		Ontogeny of Phase II Drug Metabolizing Enzymes: SULT, UGT, and GST	
Hampl, Sarah	Maternal and Child Health Bureau	Obesity	\$5,740
		Kansas City Pediatric Obesity Collaborative, Prime Health Foundation	
Hetherington, Maxine	National Institutes of Health/NCCF/COG	Childhood Cancers	\$24,000
		Oncology Per Case & Specimen Reimbursement Agreement	
Kearns, Gregory	Westat	Pharmacokinetics	\$11,270
		Single-Dose Pharmacokinetics of Rifampentine in Children	
Leeder, James Steven	National Institutes of Health	Drug Metabolism	\$1,675,000
		Adverse Drug Reactions	
		Ontogeny of Drug Bioactivation and Idiosyncratic ADRs	

Portnoy, Jay	Housing and Urban Development	Allergy Asthma Kansas City Community Environmental Remediation and Training (KC CERT)	\$230,466
Rogan, Peter	National Science Foundation	Bio-informatics High Speed Networking for Automated Fluorescence Microscopy	\$150,000
Warady, Bradley A.	National Institutes of Health	Renal Disease Chronic Renal Insufficiency in NAPRTCS Patients	\$2,649,256
Woods, Gerald M.	Washington University (NIH)	Sickle Cell Disease Silent Cerebral Infarct Multi- Center Clinical Trial (AMENDED)	\$551,037
<b>Total:</b>			<b>\$5,381,509</b>

### Continuing Grants – Federal

Principal Investigator	Sponsor	Research Area/Project Title	Award Amount
Blake, Michael	National Institutes of Health	Drug Metabolism Pharmacology Effect of Diet on the Development of Drug Metabolism in Infants	\$56,308
Butler, Merlin G	University of Kansas (NIH)	Genetics Prader Willi Syndrome Compulsive Food-Seeking and Food Motivation in PWS	\$38,353

Dowd, Mary Denise	University of Missouri-Kansas City/HRSA	Child Safety Intimate Partner Violence and Protocol: A Model for the Child-Centered Visit	\$185,744
Ekekezie, Ikechukwu	National Institutes of Health/NHLBI	Chronic Lung Disease (CLD) of Newborn Neonatal Disorders	\$130,029
Gamis, Alan S.	National Institutes of Health	Bone Marrow Transplant Hematology Oncology Pediatric Bone and Marrow Transplant Consortium	\$405,000
Gilman, Andrew Lee	Food and Drug Administration	Bone Marrow Transplantation Graft vs Host Disease Hydroxychloroquine for Graft- Versus-Host Disease	\$366,513
	National Institutes of Health	Bone Marrow Transplantation Graft vs. Host Disease Hydroxychloroquine Therapy and Biology of Chronic GVHD	\$387,168
Gittes, George K.	National Institutes of Health	Organogenesis of Pancreas TGF Beta Isoform Signaling in Pancreatic Development (AMENDED)	\$301,500
Jacobson, Jill D.	National Institutes of Health	Systemic Lupus Sex, SLE, and Signal Transduction	\$268,000
Kearns, Gregory	National Institutes of Health/NICHHD	Pediatric Pharmacology Children's Center for Clinical Pharmacology Studies	\$388,470



	National Institutes of Health/NICHD	Drug Metabolism Pharmacogenetics PPRU Supplement, Ontogeny of Drug Metabolizing Enzymes CYP1A2, CYP2D6, and CYP3A4	\$67,000
Kitchen, Alice	DHHS / Administration on Children, Youth and Families	Community Outreach Programs Drug & Substance Abuse Social Work Team for Infants Endangered by Substance abuse - TIES 2000	\$450,000
	Heart of America United Way/US Dept of Justice	Community Outreach Programs Social Work Kansas City KIDSAFE	\$6,000
	Mid-America Regional Council/Commission on Aging	Community Outreach Programs Elderly Social Work Family Friends: Support for Grandparents/Relative Caregivers	\$10,778
Knoll, Joan	National Institutes of Health	Cancer Cytogenetics Sequence-based FISH Analysis of Philadelphia Chromosome	\$134,000
Leeder, James Steven	Boston University, Sloan Epidemiology Unit, SoM/NIH	Pharmacogenomics and Birth Defects Pharmacogenetic Determinants of Birth Defects	\$699,681

Portnoy, Jay	Alliance of Community Health Plans/CDC	Allergy & Environmental Assessment Asthma Intervention for Inner-City Children	\$100,000
Truog, William E.	Children's Hospital of Philadelphia (NHLBI)	Chronic Lung Disease of Newborn Inhaled Nitric Oxide for Prevention and Treatment of Chronic Lung Disease in the Preterm Infant	\$85,416
	National Institutes of Health/NHLBI	Chronic Lung Disease (CLD) of Newborn TLR's, Nitric Oxide and Chronic Lung Disease: Any Connections?	\$298,780
Wicklund, Brian	Centers for Disease Control and Prevention	Hemophilia Prevention of the Complications of Hemophilia Through HTCS	\$416,784
	Maternal and Child Health Bureau	Hemophilia Great Plains Regional Comprehensive Hemophilia Centers Program	\$416,784
Woods, Gerald M.	Medical College of Georgia (NIH)	Sickle Cell Disease Optimizing Stroke Prevention in SC Anemia Children (STOP II)	\$109,649
	Washington University (NIH)	Hematology Sickle Cell Disease Increasing Blood and Cord Blood Donation in Blacks	\$25,645
<b>Total:</b>			<b>\$5,347,602</b>

## New Grants – Foundation/Other

Principal Investigator	Sponsor	Research Area/Project Title	Award Amount
Lynch, Daryl A.	American Academy of Pediatrics	Community Outreach Program Substance Abuse and Mental Health Services Administration to Reduce the Prevalence of Meth Usage in Adolescents in the greater Kansas City Area	\$95,000
Moore, Wayne	The Hall Family Foundation	Diabetes Human Islet Isolation and Transplantation: A Novel Approach to the Treatment of Diabetes	\$254,801
Talebizadeh, Zohreh	Prader-Willi Alliance for Research	Genetics Ghrelin and Peptide YY levels and gene expression in Prader-Willi Syndrome	\$40,000
<b>Total:</b>			<b>\$389,801</b>

## Continuing Grants – Foundation/Other

Principal Investigator	Sponsor	Research Area/Project Title	Award Amount
Alon, Uri S.	The Kaplan Grant for Research in Pediatric Nephrology	Nephrology Research The Kaplan Grant for Research in Pediatric Nephrology	\$100,000
Gittes, George K.	Juvenile Diabetes Foundation	Pancreatic Organogenesis The Role of Laminin in Exocrine versus Endocrine Lineage Selection in the Developing Pancreas	\$106,250
Kilo, Michele	The Hall Family Foundation	Behavioral Disorders Collaborative Fellowship in Developmental-Behavioral Pediatrics	\$299,477
Kitchen, Alice	Unified Government of Wyandotte County	Community Outreach Programs Social Work Grandparent/Relative Caregiver Support Services	\$5,000
Portnoy, Jay	Family Health Partners/Robert Wood Johnson	Asthma Kansas City Children's Asthma Management Program (KC CAMP)	\$110,097
White, Robert	March of Dimes	Duchenne Muscular Dystrophy Novel Therapeutic Approach for Duchenne Muscular Dystrophy (DMD) by Expressing a Retinal Dystrophin Isoform in Muscles of a DMD Mouse Model	\$64,966
<b>Total:</b>			<b>\$685,790</b>

## Internally-Funded Grants

Principal Investigator	Sponsor	Research Area / Project Title	Award Amount
Ford, Susannah P.	Katharine B. Richardson Research Endowment Fund (Medical)	Neonatal Lung Disease, Pharmacogenomics, Pulmonary Diseases Pharmacogenomics of Inhaled Nitric Oxide Response in Persistent Pulmonary Hypertension of the Newborn	\$9,999
Gaedigk, Andrea	Katharine B. Richardson Research Endowment Fund (Basic Science)	Drug Metabolism, Pharmacogenetics, Pharmacology Haplotype Analysis of Cytochrome P4502D6 (CYP2D6), A Major Drug Metabolizing Enzyme	\$9,985
Hubble, Christopher L.	Katharine B. Richardson Research Endowment Fund (Hospital)	End of Life Care Development of a Pediatric Values Inventory for Use with Families of Children with Life-Threatening Illness	\$6,759
Knoll, Joan	Katharine B. Richardson Research Endowment Fund (Basic Science)	Cytogenetics Development of Clinically Useful Single Copy FISH Probes	\$10,000
Li, Zhixing	Katharine B. Richardson Research Endowment Fund (Basic Science)	Pancreatic Organogenesis Pleiotrophin, an Important Angiogenesis Factor, Function During Pancreas Organogenesis	\$10,000
Midyett, L. Kurt	Katharine B. Richardson Research Endowment Fund (Medical)	Diabetes, Endocrinology Carnitine Levels and Carnitine Supplementation in Type I Diabetes	\$10,000

Rinaldi, Robert	Katharine B. Richardson Research Endowment Fund (Medical)	Brachial Plexus Injuries, Rehabilitation & Therapy Botulinum Toxin Use in the Treatment of Obstetrical Brachial Plexus Injury	\$11,880
Rogan, Peter	Katharine B. Richardson Research Endowment Fund (Basic Science)	Genetics, Bio-Informatics Automated Fluorescence In Situ Hybridization (scFISH)	\$10,000
Sheffield, Mark J.	Katharine B. Richardson Research Endowment Fund (Basic Science)	Chronic Lung Disease (CLD) of Newborn Nitrotyrosine as a Marker for Nitric Oxide: Normal Human Development and Effects of Chronic Lung Disease	\$6,133
Srivastava, Tarak	Katharine B. Richardson Research Endowment Fund (Medical)	Kidney Disease Application of Stereological (Morphometry) Methods for Podocyte Cell Count and Glomerular Hydraulic Permeability in Idiopathic Nephrotic Syndrome of Childhood	\$13,807
Stuart-Hilgenfeld, Michelle	Katharine B. Richardson Research Endowment Fund (Basic Science)	Kidney Disease Effect of Folate Supplementation on Plasma Homocysteine Levels in Pediatric Dialysis Patients	\$9,350
Teasley, Sue	Katharine B. Richardson Research Endowment Fund (Hospital)	Nursing Evaluation of Registered Nurse's Perception of Workload: A state-wide study	\$9,657
Thompson, Matthew	Katharine B. Richardson Research Endowment Fund (Medical)	Kidney Disease, Calcium Metabolism Bone Mineral Density in Hypercalciuric Children; Effect of Treatment with Potassium Citrate	\$18,540
White, Robert	Katharine B. Richardson Research Endowment Fund (Basic Science)	Hereditary Anemia, Iron Metabolism, Genetics	\$10,000

Xu, Dong	Katharine B. Richardson Research Endowment Fund (Basic Science)	Genetic Modifiers of Iron Metabolism: A Continuation Chronic Lung Disease (CLD) of Newborn Placenta Growth Factor (PLGF) Expression in Hyperoxic Neonatal Lung Injury and Repair	\$9,991
Yu, Y. Miles	Katharine B. Richardson Research Endowment Fund (Basic Science)	Endocrinology The Regulation of Cell Proliferation and Apoptosis of Rat Growth Plate Chondrocytes by Estrogen	\$9,731
	<b>Total:</b>		<b>\$165,832</b>