Emory+Children's Pediatric Research Center Update July 2015 Grant and Manuscript

Research Resources:

The resources to the right are available to all investigators affiliated with Children's Healthcare of Atlanta (CHOA), including medical staff, Emory Department of Pediatrics (DOP) faculty and staff, and those outside of the DOP and CHOA who are members of our research centers. We encourage involvement of all those interested in research throughout our system, and provide this as a guide to resources along with our research website www.pedsresearch.org . Our goals are to build infrastructure and programs that serve a broad community of scientists and clinicians engaged in pediatric research, and provide training in grant writing and grant opportunities that enhance our extramural funding for all child health investigators affiliated with Children's Healthcare of Atlanta, For suggestions and comments on any of the initiatives and resources, please contact Paul Spearman, MD (paul.spearman@emory.edu).

Grant and Manuscript Support

> Stacy Heilman, PhD Grants Advocate 404-727-4819

stacy.heilman@emory.edu

- Assistance with finding grant opportunities and connecting to collaborators
- •Core laboratory assistance, supervision

Clinical studies/coordinators

➤ Kris Rogers, RN, CRA
Director, CHOA Clinical
Research Administration
404-785-1215

Kristine.rogers@choa.org

➤ Manager, Egleston campus: Allison Wellons 404-785-6459 Allison.wellons@choa.org

Emory Clinical Research Services

➤ Amanda Cook, Director 404-727-5234

amcook@emory.edu

Scientific Facilities Manager

Kira Moresco, MS

kira.moresco@emory.edu HSRB, G72, 404-727-6515

Grants & Manuscript Editing

Prioritized for extramural funding opportunities, program projects
Experienced at program project management, grant and scientific paper editing
Request form on

pedsresearch.org; send to

- Manager, Hughes Spalding/Scottish Rite campuses: Beena Desai 404-785-2269
- beena.desai@choa.org
- Nurse Manager, Pediatric Research Unit (PRC/Egleston): Stephanie Meisner, RN

Stephanie.Meisner@choa.org 404-785-0400-main number

Equipment Core: Biosafety cabinet, incubators, clinical centrifuge, real-time PCR machine, standard PCR machine, multilabel plate reader, gel documentation system on order Services: This core provides common equipment for investigator's use, including access to benchtop space and hood space, centrifuges for clinical specimen processing

Biostatistics Core ➤ Courtney McCracken, PhD

Traci Leong, PhD

Stacy Heilman.

- Scott Gillespie, MS
- Mike Kelleman, MSPH
- Curtis Travers, MPH

Procedure: Request form located at:

http://www.pedsresearch.org/cores/detail/biostats

Priorities: analysis for grant applications and Publications

➤ Pediatric Research Unit (PRC/Egleston) Services— A four-

bed outpatient research unit/ A four-bed inpatient research unit/ A core research lab/A research pharmacy/ Bionutrition services/Nursing Services including, but limited to: Medication administration including investigational drugs; I.V. access and port access; I.V. infusions; Routine and complex vital sign monitoring; Phlebotomy; Timed specimen collections such as PK trials and oral glucose tolerance tests; Telemetry monitoring; For more information, please visit:

http://www.pedsresearch.org/clinicalresearch/pediatric-research-center/

Laboratory Specimen

Processing: Clinical Laboratory at Egleston and Scottish Rite

Heather MacDonald, Manager, Advanced Diagnostics Laboratory

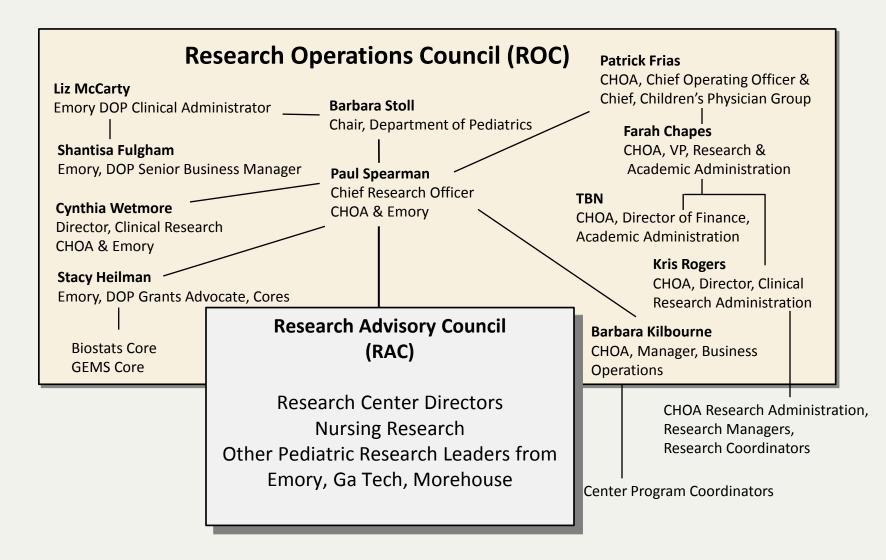
404-785-5766

Heather.macdonald@choa.org

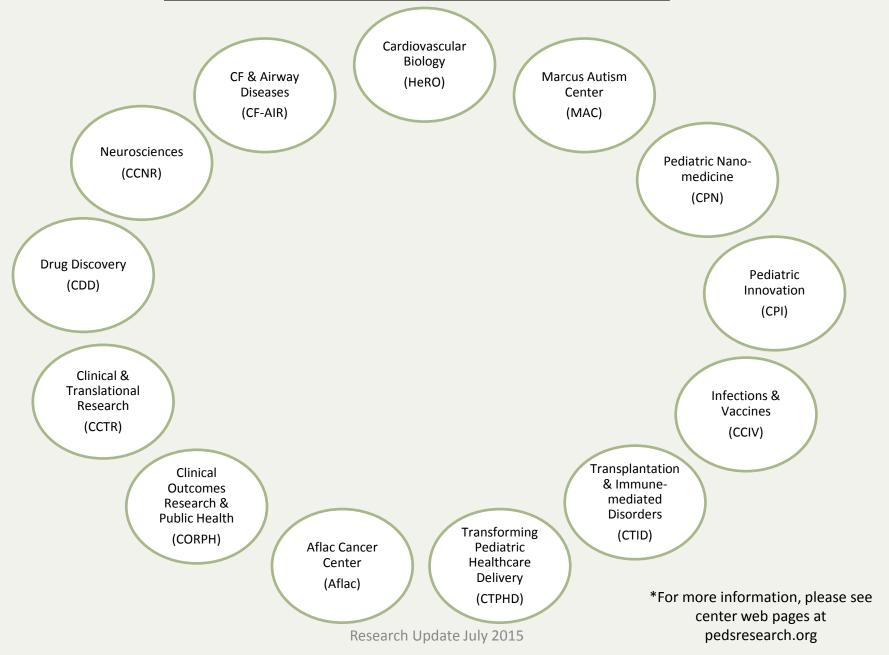
- •Clinical trials specimen processing, shipping, limited storage
- •ACTSI processing lab
- •Laboratory inventory management system (LIMS) available

Research Resources

Research Leadership:



Emory+Children's Pediatric Research Centers*



Emory+Children's Pediatric Research Center Contacts

Center Directors:

Aflac Cancer and Blood Disorders Center

Center Director: Bill Woods, MD

william.woods@choa.org

Program Coordinator: Faith Barron

faith.barron@emory.edu

Children's Heart Research and Outcomes Center

Center Director: Mike Davis, PhD

michael.davis@bme.gatech.edu

Program Coordinator: Kristen Herzegh,

BA, MPH kcoshau@emory.edu

Center for Clinical and Translational Research

Center Director: Cynthia Wetmore,

MD, PHD cynthia.wetmore@emory.edu Program Coordinator: Kristen Herzegh,

BA, MPH kcoshau@emory.edu

Center for Cystic Fibrosis & Airways Disease Research

Center Director: Nael McCarty, PhD

namccar@emory.edu

Program Coordinator: Karen Kennedy,

PhD <u>kmurra5@emory.edu</u>

Center for Drug Discovery

Center Director: Baek Kim, PhD

Baek.kim@emory.edu

Program Coordinator: Kristen Herzegh,

BA, MPH kcoshau@emory.edu

Center for Childhood Infections and Vaccines

Center Director: Paul Spearman, MD

paul.spearman@emory.edu

Program Coordinator: Karen Kennedy,

PhD kmurra5@emory.edu

Children's Center for Neurosciences

Research

Center Director: Ton deGrauw, MD,

PhD <u>ton.degrauw@choa.org</u> Program Coordinator: Jennifer Villaseñor jkenny@emory.edu

Center for Pediatric Innovation Center Directors: Bob Guldberg, PhD and Kevin Maher, MD

<u>robert.quldberg@me.gatech.edu</u> **and** maherk@kidsheart.com

Program Coordinator: Hazel Stevens hazel.stevens@me.gatech.edu

Center for Pediatric Nanomedicine Center Director: MG Finn, PhD

mgfinn@gatech.edu

Co-Director: Tom Barker, PhD

thomas.barker@bme.gatech.edu Program Coordinator: Erin Kirshtein Erin.kirshtein@bme.gatech.edu Center for Transplantation & Immunemediated Disorders

Center Director: Subra Kugathasan, MD

skugath@emory.edu

Program Coordinator: Jennifer Villaseñor jkenny@emory.edu

Center for Transforming Pediatric

Healthcare Delivery
Center Director: Beth Mynatt, PhD

mynatt@cc.gatech.edu
Program Coordinator: TBN

Clinical Outcomes Research and Public Health

Center Director: Paul Spearman, MD (Acting)

paul.spearman@emory.edu

Program Coordinator: Karen Kennedy,

PhD kmurra5@emory.edu

Marcus Autism Center Center Director: Ami Klin, PhD Director of Research: Warren Jones,

PhD ami.klin@emory.edu or ami.klin@choa.org and warren.r.jones@emory.edu

Program Coordinator: Christina Wessels

Christina.wessels@choa.org

Research Center Administration:

Barbara J. Stoll, MD

George W. Brumley, Jr. Professor and Chair Department of Pediatrics, Emory University School of Medicine, CEO, The Emory Children's Center Executive Director, The Pediatric Center of Georgia barbara stoll@oz.ped.emory.edu

Patrick Frias, MD

Chief Operating Officer & Chief, Children's Physician Group

Children's Healthcare of Atlanta pat.frias@choa.org

Paul Spearman, MD

Nahmias-Schinazi Professor & Chief, Pediatric Infectious Diseases, Chief Research Officer, Children's Healthcare of Atlanta, Vice Chair for Research, Dept of Pediatrics, Emory University paul.spearman@emory.edu

Cynthia Wetmore, MD, PhD

Director, Center for Clinical & Translational Research and Director, Clinical Research for Children's & Emory Dept of Pediatrics, Emory University

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Children's Healthcare of Atlanta Farah.chapes@choa.org

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Director of Research Administration & Graduate Medical Education, Children's Healthcare of Atlanta kristine.rogers@choa.org

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Director of Programs & Grants Advocate, Department of Pediatrics, Emory University & Children's Healthcare of Atlanta stacy.heilman@emory.edu

Barbara W. Kilbourne, RN, MPH

Manager, Business Operations, Research Strategy Leadership, Children's Healthcare of Atlanta barbara.kilbourne@choa.org

Emory+Children's Pediatric Research Center

Locations and Contacts:

Emory Campus/Egleston

Emory-Children's Center (E-CC)

2015 Uppergate Drive Atlanta, GA 30322



Health Sciences Research Building (HSRB)

1760 Haygood Drive, NE Atlanta, GA 30322



Egleston hospital

1405 Clifton Road Atlanta, GA 30322



Chief Research Officer Paul Spearman, MD

Manager, Business Operations: Barbara Kilbourne, RN, MPH

barbara.kilbourne@choa.ora

Manager, Egleston campus: Allison Wellons allison.wellons@choa.org

Centers:

Aflac Cancer and Blood Disorders Center

Program Coordinator: Faith Barron faith.barron@emory.edu

Children's Heart Research and Outcomes Center

Program Coordinator: Kristen Herzegh, BA, MPH kcoshau@emory.edu

Children's Center for Clinical and Translational Research

Program Coordinator: Kristen Herzegh, BA, MPH kcoshau@emory.edu

Center for Cystic Fibrosis & Airways Disease Research

Program Coordinator: Karen Kennedy, PhD kmurra5@emory.edu

Center for Drug Discovery Program Coordinator: Kristen Herzegh, BA, MPH

Center for Childhood Infections and Vaccines Program Coordinator: Karen Kennedy, PhD kmurra5@emory.edu

Children's Center for Neurosciences Research Program Coordinator: Jennifer Villaseñor jkenny@emory.edu

Center for Transplantation & Immune-mediated Disorders Program

Coordinator: Jennifer Villaseñor ikenny@emory.edu

Clinical Outcomes Research and Public Health

Program Coordinator: Karen Kennedy, PhD kmurra5@emory.edu

Marcus Autism Center

1920 Briarcliff Road, NE

Atlanta, GA 30329

Associate Director of

Research, Chris Gunter, PhD

Program Coordinator:

Christina Wessels

Christina.wessels@choa.ora



Georgia Institute of Technology

Main Contacts:

Strategic Partners Officer: Sherry Farrugia sherry.farrugia@innovate.gatech.edu

Chief Engineer, Pediatric Technologies: Leanne West Leanne.West@atri.gatech.edu

75 5th Street

Atlanta, GA 30308

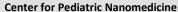
Center for Pediatric Innovation

Parker H. Petit Institute for Bioengineering & Bioscience

315 Ferst Drive, NW

Atlanta, GA 30332

Program Coordinator: Hazel Stevens hazel.stevens@me.gatech.edu



Department of Biomedical Engineering

313 Ferst Drive Atlanta, GA 30332

Program Coordinator: Erin Kirshtein <u>Erin.kirshtein@bme.gatech.edu</u>

Center for Transforming Pediatric Healthcare Delivery

College of Computing

801 Atlantic Drive Atlanta, GA 30332

Center Director: Beth Mynatt, PhD mynatt@cc.gatech.edu



Scottish Rite Hospital*

1001 Johnson Ferry Road NE Atlanta, GA 30342-1605

Director, Center for Clinical and Translational Research: Cynthia Wetmore, MD, PHD

cynthia.wetmore@emory.edu

Program Coordinator: Kristen Herzegh, BA,

MPH kcoshau@emory.edu

Manager, SR Campus: Beena Desai

Beena.desai@choa.org

*Research Office located in the Medical Library on the Ground Floor

Hughes Spalding Hospital

35 Jesse Hill Jr. Drive SE Atlanta, GA 30303-3032 Research Coordinator, Saadia Khizer

Saadia.khizer@choa.org

Morehouse School of Medicine

PI: Beatrice Gee, MD, AB, FAAP

PI: Lily Immergluck, MD, FAAP



Research-sponsored events/meetings:

(This is an overview, for specific dates/events, go to: http://www.pedsresearch.org/calendar)

MONDAYS	TUESDAYS	WEDNESDAYS	THURSDAYS	FRIDAYS	VARIOUS DAYS
Research Operations Council (ROC) meetings: occurs weekly at HSRB, E360. Designed for central team to discuss detailed operations and issues.		Research Brainstorming Sessions: Help as needed to allow development and exploration of special research topics. For suggested topic nominations, contact (Stacy.heilman@emory .edu)		PeRCS: 10 AM coffee social every 1 st and 3 rd Friday, usually held 3 rd floor break area, E-CC	Research Advisory Council (RAC) meetings: twice monthly; restricted to RAC membership, contact Paul Spearman for inquiries or suggestions paul.spearman@emory.edu
K club: Monthly discussions/lectures for K award training, other grants training/education. Typically 2nd Monday, September to May, Contact Stacy Heilman (Stacy.heilman@emory.edu) for more information. Sponsored by Departments of Pediatrics and Medicine and ACTSI.		Research Grand Rounds: 3 rd Wednesday of month, Egleston, 7:30 AM		Research Seminars: Fridays (Egleston Classrooms). Contact Barbara Kilbourne for suggestions or needs (barbara.kilbourne@choa.org)	Invited speakers through seminar series sponsored by centers; contact Center Directors or Barbara Kilbourne at barbara.kilbourne@choa.org if interested in upcoming events. Center Directors are listed on pedsresearch.org website.

Specialized Research Equipment/Service Cores:

CORE	SCIENTIFIC DIRECTOR	TECHNICAL DIRECTOR/CONTACT	EQUIPMENT	LOCATION	SERVICES
Animal Physiology Core	Mary Wagner, PhD mary.wagner@emor y.edu 404-727-1336	Rong Jiang, MD rjiang2@emory.edu	Small animal surgical equipment	Emory-Children's Center, 3 rd Floor Lab	This core assists with and provides the surgical expertise and equipment for small animal survival surgery, including IACUC protocol assistance. Currently, the core offers pulmonary banding, aortic banding, coronary ligation and intramyocardial injections for mice, rats and rabbits and is available for development of other surgical procedures.
Biomarkers Core	Lou Ann Brown, PhD lou.ann.brown@emo ry.edu 404-727-5739	Janine Ward janine.ward@emory.edu	Agilent gas chromatography/ma ss spectrometer and Waters high performance HPLC with fluorescence detector	Emory-Children's Center, 3 rd Floor Lab	This cores analyzes markers of oxidative stress and markers of alcohol exposure. Speak to Scientific Director about other chromatography/mass spec assays available.
Cardiovascular Imaging Research Core (CIRC)	Ritu Sachdeva, MD sachdevar@kidshear t.com 404-785-CIRC	Heather Freidman Heather.friedman@choa. org	-Echocardiograms - Flow Doppler -3-D Imaging -Upright Bicycle -VO2 Analysis -Electrocardiogram -Cardiac MRI	Outpatient Cardiac Services, 2 nd Floor, Tower 1	This core provides non-invasive cardiac support for investigators involved in clinical research involving infants, children and adolescents. The CIRC has dedicated space, equipment and staff to provide you with quality cardiovascular imaging data that is collected in a meticulous, systematic, detail-orientated manner. Because of our unique set-up, we are able to utilize state-of-the-art imaging modalities not typically seen in the clinical setting.

Specialized Research Equipment/Service Cores (continued)

CORE	SCIENTIFIC DIRECTOR	TECHNICAL DIRECTOR/CONTACT	EQUIPMENT	LOCATION	SERVICES
Flow Cytometry/Cell Sorting Medical Imaging	David Archer darcher@emory.edu Radiologists at	Technical Director for Core: Aaron Rae aaron,j.rae@emory.edu Immunology services are overseen by Karnail Singh, PhD mailto:ksingh6@emory.edu Novell McGloster, Senior	Coulter counter), Zeiss ELISPOT reader, ELISAs, assay design for intracellular cytokine staining (ICS), luminex 200 assays for protein quantitation, real-time PCR • Access to clinical CT (4), PET (1), Bone	Health Sciences Research Building, E-362	This core offers access to several state of the art analytical flow cytometers as well as high-speed cell sorting. We also offer training as well as expert help to enable our users to improve the quality and scope of their research. In addition, this core provides equipment and technical expertise for the performance of immunologic assays and diagnostic assays for infectious pathogens. Our mission is to enhance the ability of investigators at Children's and affiliated institutions to perform research in the areas of immunology, vaccine testing, and infectious diseases We provide a cross-disciplinary scientific, administrative, and distributions have for investigations through the Emery Content
Resources	Children's are board certified with additional training in pediatric imaging and are available for consultation upon request. This operation also includes physicists with imaging expertise and other staff experts.	Research Coordinator novell.mcgloster@choa.org	Densitometry (2), Fluoroscopy (8), Nuclear Medicine (4), Ultrasound (9) and X-ray. • Access to 6 clinical MRI scanners including a 1.0T intraoperative, 1.5T and 3T systems. • Access to 2 fMRI systems. • Sedation Services • Access to radiology investigators specializing in radiology, neuroradiology and interventional radiology. • Access to MRI physicists (3). • Access to research professionals including administrators and research coordinators. • Administrative services including scheduling, archival of images		educational home for imaging science through the Emory Center for Systems Imaging (CSI) and the Pediatric Imaging Research Core (PIRC) at Children's Healthcare of Atlanta. Inpatient Imaging Resources Outpatient Imaging Resources

CORE in Development	EQUIPMENT/LOCATION	DESCRIPTION	
Specimen Repository (which will enhance the Specimen Processing Core)	LIMS, freezers (-80, LN2) Sync with freezer space in new building; temporary space until then being identified	The specimen repository will offer organized storage of blood and body fluids and nucleic acids. Tissue repository services are under further discussion. Specimen processing can be coordinated to link with the specimen repository. Bar-coded standard vial storage and a dedicated LIMS will offer automated tracking and organized retrieval of specimens.	

Partnership Core

CORE	SCIENTIFIC DIRECTORS	EQUIPMENT	LOCATION	SERVICES			
Integrated Cell Imaging Core	Adam Marcus, PhD Director, ICI aimarcu@emory.edu Alexa Mattheyses, PhD Associate Director, ICI mattheyses@emory.edu Neil Anthony, PhD neil.anthony@emory.edu 404-969-CORE	The rates for the microscopes included in this effort can be found at: http://ici.emory.edu/document/ICI %20Pediatrics%20Rates.pdf. Pediatric researchers will benefit from a 40% subsidy when using any of the ICI equipment and technologies. ICI also provides expert consultation, training, and assistance on all technologies. More information on the microscopes and services available, locations, and how to become a user is available at ici.emory.edu	A partnership facilitated by the Emory School of Medicine and includes the Emory+Children's Pediatric Research Center Cellular Imaging Core along with other cellular imaging sites on campus including Winship Cancer Institute, Emory NINDS Neuroscience Core Facilities (ENNCF), and the Department of Physiology	This core provides training and access to advanced cellular imaging systems, including confocal and TIRF microscopy. For more information: http://www.pedsresearch.org/cores/detail/cell-imaging			
Genetics/ Genomics Core Resources	The Emory Integrated Genomics Core (EIGC): Michael Zwick, PhD mzwick@emory.edu	The EIGC is a full-service genomics and computational facility offering Emory researchers the ability t technologies and methods of analysis in their research. We offer next-generation sequencing, high d microarray services, targeted enrichment, single nucleotide polymorphism (SNP) genotyping, and cur computational services built around our custom Galaxy server and Emory University's high performa and storage infrastructure. Please go to this link to learn more: Emory Integrated Genomics Core .					
	Emory Genetics Laboratory (EGL): Madhuri Hegde, PhD, FACMG mhegde@emory.edu and Derek Stevens derek.stevens@emory.edu	School of Medicine, EGL remains on the forefront of the latest technologies, including exome generation sequencing, whole genomic and targeted microarrays, and more. ABMG-accredite and NSGC-certified laboratory genetic counselors are available to all ordering clinicians and re					

Funding Opportunities:

Funding Opportunity	Funding Limit	Funding Term	Deadline	Eligibility	Post Award Expectations	Additional Information
Friends	\$25,000	12-18 months	3rd Friday in Sept	 Children's professional staff who do not also have a compensated faculty appointment Must be for clinical or outcomes research taking place in Children's facilities 	 Must provide annual and final reports. Must be willing to present findings to Friends groups, Children's leadership, etc. 	Fund does not provide for investigator salary support
EECRSeed: Engaging Emory & Children's Researchers Seed Grant Program	\$50,000	12 months	3rd Friday in Sept	 Regular faculty in clinical departments at Emory. Applicants outside of Dept. of Peds must have clinical privileges at Children's. Must not have an active R01 or P01. Must provide agency and proposed date they will submit for extramural funding. Priority given to faculty with New Investigator status. 	Must submit a grant to an extramural agency.	\$25,000 of total award may be directed to investigator salary. This seed grant is sponsored by Children's Healthcare of Atlanta and Emory University
Research Center Pilot Grants (including Emory & GA Tech based centers)	\$50,000 (some GA Tech are \$60K)	12 months	Usually mid -winter; Emory- based are due roughly every other year and GA Tech- based offered every year	1. Must include a member of the center and/or member of Children's medical staff 2. GA Tech-based centers (CPN, CPI and IPaT/CTPHD) must also include member of GA Tech faculty	 Must provide annual report specifying related publications, grant applications submitted and extramural funding received. Must apply for extramural funding within one year of project conclusion date. 	https://pediatric onnect.gtri.gate ch.edu/grants

Funding Opportunities (continued):

Funding Opportunity	Funding Limit	Funding Term	Deadline	Eligibility	Post Award Expectations	Additional Information
Dudley Moore Nursing and Allied Health Research Fund	\$15,000	6-18 months	Usually 1st Friday in May	 All Children's nursing and allied health staff who provide services at one of Children's locations are eligible. Excludes those with regular faculty appointments or who are employed by Emory Projects must have an impact on enhanced patient care, priority is given to projects that will provide evidence to change practice. 	Must be willing to present findings by request.	Fund restricted by donor to support nursing and allied health research at Children's
Quick Wins	varies	12-24 months	ongoing	 Project proposals must be submitted by teams comprised of individuals from each organization, Children's and Georgia Tech. The proposals must address a project that provides an answer to an unmet business or clinical need as identified by a clinician, technologist, or Children's leader. 	The project must be capable of delivering a workable solution (at minimum a validated "prototype") into the hands of a clinician or team within 18 months from the receipt of funds and project start.	https://pediatrico nnect.gtri.gatech.e du/grants

Additional Resources:

Research listserv:

Contact barbara.kilbourne@choa.org to be added to this listserv used to disseminate all pediatric research related announcements including seminars, funding opportunities, such as the BiRD (Bringing in Research Dollars), and the Weekly PREP (Pediatric Research Events and Programs).

Website:

www.pedsresearch.org

This is the central resource for research seminar info, contacts, cores, calendars, and forms.

Emory Library Resources

- http://www.healthlibrary.emory.edu/
- Ask a librarian: <u>http://health.library.emory.edu/about/contact/ask.php</u>

Scottish Rite and Egleston Library Resources

- Emily Lawson
 Clinical Information Librarian, Inman Medical Library at Children's at Egleston
 404-785-1481
- <u>Kate Daniels</u>
 Clinical Information Librarian at Scottish Rite
 404-785-2157
- If you have access to <u>Careforce</u> use the following link: http://careforceconnection/Departments/HumanResources/Learning%20Services/LibrarServices/Pages/Home.
 aspx
- If you do not have access to Careforce -- use the following link: http://www.choa.org/Health- Professionals/Physician-Resources/Medical-libraries.

Research Recruitment Update*:

NAME	РНОТО	CENTER	TITLE	START DATE	RECRUITED FROM	RESEARCH INTERESTS
Eric J. Sorscher, MD		Center for Cystic Fibrosis and Airways Disease Research (CF-AIR)	Professor/GRA Eminent Scholar	July 2015	Department of Medicine Professor, Department of Cellular, Developmental and Integrative Biology Professor, Department of Human Genetics University of Alabama at Birmingham School of Medicine	Investigates the structure and function of the gene product responsible for cystic fibrosis (i.e., the cystic fibrosis transmembrane conductance regulator, CFTR), and also evaluates new approaches to therapy, including the activation of alternate chloride secretory pathways in cystic fibrosis epithelia, molecular correction of mutant CFTR, and gene transfer-related aspects of cystic fibrosis using both viral and non-viral vectors. Involves the characterization of a novel mechanism for tumor sensitization using the E. coli PNP gene. In this approach, tumors are rendered hundreds or thousands of times more sensitive to conventional chemotherapy by expression of a prokaryotic enzyme that cleaves nontoxic nucleoside prodrugs to a very toxic form. The research involves analysis of the crystal structure of E. coli PNP, and structure-based drug design of novel compounds that would be effectively cleaved in vitro and in vivo. Gene transfer vectors that might be important in the treatment of human cancers are also developed and characterized.
Dolores Hambardzumyan, PhD		Aflac Cancer and Blood Disorders Center (Aflac)	Assistant Professor	June 2015	Cleveland Clinic, Department of Neurosciences, Cleveland Clinic Cleveland, Ohio	Her research interests are focused on adult and pediatric gliomas, specifically looking at the role of macrophages (the most abundant immune infiltrates in gliomas) and reactive astrocytes. She studies these stromal nonneoplastic cells in gliomagenesis and how they modify glioma response to therapy. Her research is funded by a U01 grant from NIH/NCI (PI, 2012-2017). She also has a project investigating anti-VEGF therapy resistance in gliomas, which is funded as a subcontract from a U01 (until 8/30/2015) held by Dr. Eric Holland at Fred Hutchinson Cancer Center. She is also Co-I of an R01 (2013-2018) held by Dr. Jeongwu Lee at Case Western to investigate polycomb and cellular hierarchy in brain cancer.

Research Recruitment Update*:

NAME	РНОТО	CENTER	TITLE	START DATE	RECRUITED FROM	RESEARCH INTERESTS
Lazaros Kochilas, MD, MSCR			Associate Professor		University of Minnesota School of Medicine	Nearly 1 in every 120 children born has congenital heart disease (CHD). Congenital heart defects are the most common birth defect and are the number one cause of death from birth defects during the first year of life. Understanding the long term outcome for congenital heart disease is critically important. National Heart Blood Institute (NHLBI) has recently convened a panel of experts to address the issue of late outcomes for congenital heart disease NHLBI institute director Mike Lauer has expressed concern that not enough science has been focused toward late outcomes in emerging adults with congenital heart disease. Dr. Kochilas' expertise and interest in the field of late outcomes will put our center in a unique position to lead this effort to better characterize the late outcomes of those with congenital heart disease; and, improve their quality of life.
Steven L. Goudy, MD	6		Associate Professor		Vanderbilt Bill Wilkerson Center, Vanderbilt University	Both a surgeon and a basic scientist. He has an active basic science laboratory studying palatal development and the pathogenesis of cleft palate. His K08 was entitled "The Role of IRF6 during craniofacial development", and ended 7/31/2013. His R01 application submitted in 2013 examines the role of Jagged1 signaling in osteoblast differentiation and maxillary bone formation, using relevant mouse models that recreate mid-facial defects in humans. The reviewers noted that the mouse model matches well human disorders of maxillary hypoplasia, and that the investigator is well positioned to study this problem. The primary concerns were with the proposed mechanism through which Jagged1 signals and some technical approaches with the microCT techniques. These have been well addressed in the revised application. Two new manuscripts have been accepted that support his application, and it appears poised for a better reception

Research Recruitment Update*:

NAME	РНОТО	CENTER	TITLE	START DATE	RECRUITED FROM	RESEARCH INTERESTS
Rheinhallt M. Jones, PhD		Center for Transplantation and Immune-Mediated Disorders (CTID)			Department of Pathology, Emory University	Proposed Research Projects and Goals The commensal microbiota that reside intimately with epithelial surfaces are increasingly recognized as important actors in a variety of host physiological and pathological events. For example, recent advances have implicated a role for the microbiota in epithelial cell cycle regulation and stem cell dynamics, thus suggesting that a "dysbiosis" of this relationship may lead to the initiation and progression of pathological conditions. However, there is a gap in the knowledge concerning a mechanistic understanding of how the commensal microbiota influences these processes. The goal of my research is to identify the cell signaling pathways, the bacterial community structure, and the microbial products that mediate the influences of the microbiota on human health. The short term objective is to identify how perturbations to the microbiota influence stem cell turnover, and by extension tumor initiation or progression – and ultimately, how deliberate manipulation of the microbiota may offer a therapeutic strategy
Hee Cheol Cho, PhD			Associate Professor	1	Cedars-Sinai Medical Center in Los Angeles	Bioengineering of cardiac pacemakers, gene and stem cell-based therapies
Mehul V. Raval, MD, MS		Clinical Outcomes Research and Public Health (CORPH)	Pediatric Surgeon	July 2014	Nationwide Children's Hospital, Columbus, OH	Improving outcomes in children's surgical care and limiting costs Patient safety Performance of retrospective data review as well as coordination of randomized trials Long-term quality of life improvement assessments Regional collaborative quality improvement efforts Quality measure indicator development Fiscal transparency and cost-effectiveness

^{*}Recruits for the past year