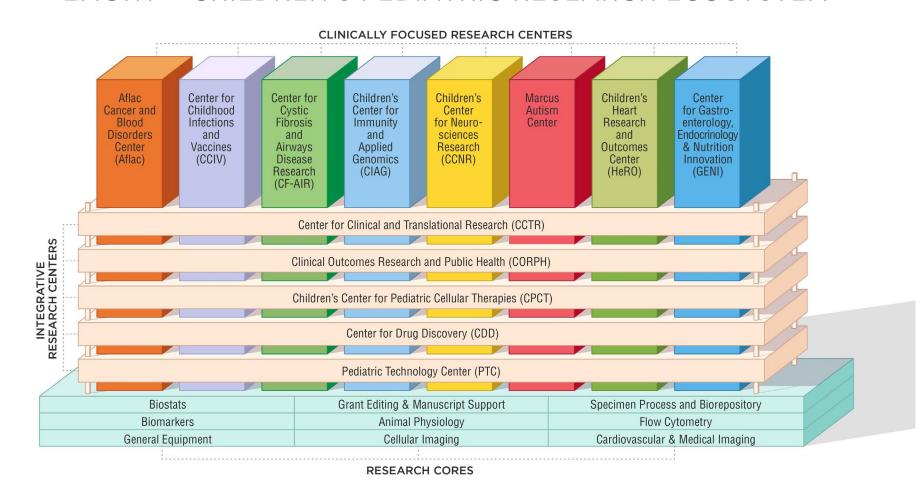




EMORY + CHILDREN'S PEDIATRIC RESEARCH ECOSYSTEM



Research Snapshot March 2022



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 Clinton H. Joiner, MD, PhD Clinton.joiner@emory.edu or Stacy Heilman, PhD stacy.Heilman@emory.edu



Grant and Manuscript Support

- Stacy Heilman, PhD Director, Research Operations 404-727-4819
 - stacy.heilman@emory.edu
- Assistance with finding grant opportunities and connecting to collaborators
- Core laboratory assistance, supervision

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 Stacy Heilman

Clinical studies/coordinators

404-785-6453

- ➤ CHOA Clinical Research
 Administration
 Hema Mody hema.mody@choa.org
 (as of 1/18/22) 404-785-7477 and
 Stephanie Meisner
 Stephanie.Meisner@choa.org
- Manager, Egleston campus:
 Rebecca Cleeton 404-785-0109
 rebecca.cleeton@choa.org
- Manager, Hughes Spalding/ Scottish Rite campuses: Marco Benoit 404-785-2269 (Macarthur.Benoit@choa.org
- Lead Research Nurse, Pediatric Research Center (PCRU/CAP Building): Cheryl Stone, RN

Cheryl Stone, RN
cherylL.stone@choa.org
404-785-0400-main number

Biostatistics Core

<u>Shasha Bai, PhD</u>, Director <u>Scott Gillespie, MS, MSPH</u>, Asst Director

- Rohali Keesari, PharmD, MPH
- Adrianna Westbrook, MPH
- Yijin Xiang, MPH

Procedure: Request form located at: http://www.pedsresearch.org/research/cores/biostatistics-core/overview/
Priorities: analysis for grant applications and Publications

Pediatric Clinical Research Unit (PCRU)-

A six-bed outpatient research unit/ A twobed inpatient 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/resea rch/support-services/dedicated-clinicalresearch-facilities

Emory Clinical Research Services

Sarah Marie Huban, Director sarah.marie.huban@emory.edu 404-712-0736

Scientific Facilities Manager

➤ Kira Moresco, MS
<u>kira.moresco@emory.edu</u>
404-727-6515

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

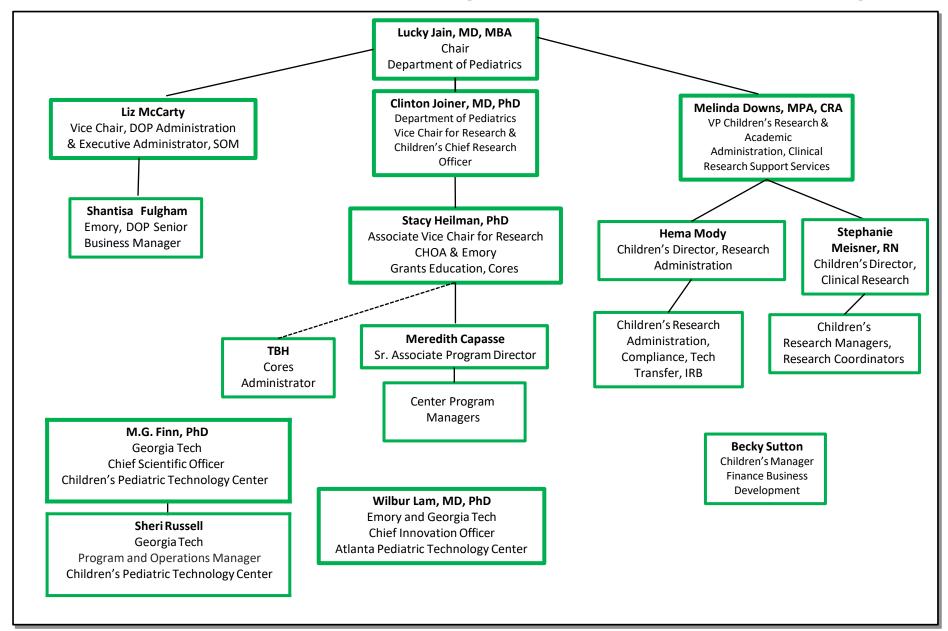
Laboratory Specimen Processing:

Clinical Laboratory at Egleston and Scottish Rite

- Heather MacDonald, Manager Advanced Diagnostics Laboratory 404-785-5766 <u>Heather.macdonald@choa.org</u> or <u>labresearchcoordinator@choa.org</u>
- Clinical trials specimen processing, shipping, limited storage
- ACTSI processing lab
- Laboratory inventory management system (LIMS) available

Research Resources

Pediatric Research Operations Leadership



Pediatric Research Alliance Center Contacts

Center Directors:

Aflac Cancer and Blood **Disorders Center**

Center Director: Doug Graham, MD, PhD

douglas.graham@choa.org Program Coordinator: Molly Green

molly.green@emory.edu

Children's Heart Research and Outcomes Center

Center Director: Mike Davis. PhD michael.davis@bme.gatech.edu Program Manager: Kelcey Little, MS

Kelcey.little@emory.edu

Center for Clinical and Translational Research

Center Directors: Claudia Morris, MD claudia.r.morris@emory.edu and Miriam Vos., MD, MSPH MVOS@emory.edu Program Manager: Kelcey Little, MS Kelcey.little@emory.edu

Clinical Outcomes Research and Public Health

Interim Center Director:

Ann Mertens, PhD Ann. Mertens@choa.org

Program Manager: Tracy Willoughby

twillo2@emorv.edu

Center for Cystic Fibrosis & Airways Disease Research

Center Director: Nael McCarty. PhD

namccar@emory.edu Program Manager: TBH

Center for Drug Discovery Center Director: Baek Kim, PhD

Baek.kim@emory.edu

Program Manager: Tracy Willoughby

twillo2@emory.edu

Center for Childhood Infections and

Vaccines

Center Director: Ann Chahroudi. MD. PhD

ann.m.chahroudi@emory.edu

Program Manager: Megan Vallowe, PhD

Children's Center for Neurosciences Research

Interim Center Director: Stacv Heilman, PhD

Stacy.heilman@emory.edu

Program Manager: Gillian Glauber Gillian.Glauber@emory.edu

Center for Gastroenterology, **Endocrinology, & Nutrition Innovation** Center Director: Saul Karpen, MD, PhD

Saul.karpen@emory.edu Program Manager: Gillian Glauber Gillian.glauber@emorv.edu

Center for Pediatric Cellular Therapies Center Directors: Edwin M. Horwitz, MD,

PhD edwin.horwitz@emory.edu and H. Trent Spencer, PhD hspence@emory.edu Program Manager: TBH

Children's Center for Immunity and Applied Genomics

Center Director: Subra Kugathasan, MD

skuaath@emorv.edu

Co-Director: Greg Gibson, PhD area.aibson@bioloav.aatech.edu Program Manager: Tracy Willoughby

twillo2@emory.edu

Marcus Autism Center

Center Director: Ami Klin. PhD ami.klin@emory.edu and

Larry Scahill, MSN, PhD

lawrence.scahill@emory.edu and Gordon J.

Ramsey, PhD gordon.ramsay@emory.edu

Program Manager: Gillian Glauber Gillian.Glauber@emory.edu

Pediatric Technology Center Chief Scientific Officer: MG Finn, PhD

mafinn@aatech.edu

Program and Operations Manager: Sheri Russell Sheri.Russell@tri.gatech.edu

Research Alliance Administration:

Lucky Jain, MD, MBA

Richard W Blumberg Professor and Chair Emory University School of Medicine, Department of Pediatrics, Executive Medical Director & Chief Academic Officer, Children's Healthcare of Atlanta ljain@emory.edu

Clinton Joiner, MD, PhD

Vice Chair for Research, Emory Department of Pediatrics Children's Chief Research Officer clinton.joiner@emory.edu

Stacy S. Heilman, PhD

Associate Vice Chair for Research Department of Pediatrics, Emory University & Children's Healthcare of Atlanta stacy.heilman@emory.edu

Liz McCarty

Vice Chair, DOP Administration & Executive Administrator, SOM.mmccar2@emory.edu

Shantisa Fulgham

Senior Business Manager, Department of Pediatrics, Emory University sfulgha@emory.edu

Melinda Downs, MPA, CRA

VP Research and Academic Administration Children's Healthcare of Atlanta Melinda.mathis@choa.org

Hema Mody

Director, Research Administration Children's Healthcare of Atlanta

Stephanie Meisner, RN

Director, Clinical Research Children's Healthcare of Atlanta Stephanie.Meisner@choa.org

Meredith Capasse

Sr. Associate Program Director, Pediatric Research Alliance, Emory University & Children's Healthcare of Atlanta meredith.capasse@emory.edu

Pediatric Research Alliance

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





Associate Vice Chair for for Research Stacy Heilman, PhD

stacy.Heilman@emory.edu

Sr. Associate Program Director: Meredith Capasse

meredith.capasse@emory.edu

Manager, Egleston campus: Rebecca Cleeton

Rebecca.Cleeton@choa.org

Centers:

Aflac Cancer and Blood Disorders Center

Program Coordinator: Molly Green molly.green@emory.edu

Children's Heart Research and Outcomes Center

Program Manager: Kelcey Little, MS Kelcey.little@emory.edu

Children's Center for Clinical and Translational Research

Program Manager Kelcey Little, MS Kelcey.little@emory.edu

Clinical Outcomes Research & Public Health

Program Manager: Tracy Willoughby twillo2@emory.edu

Center for Cystic Fibrosis & Airways Disease Research

Program Manager: TBH

Center for Drug Discovery

Program Manager: Tracy Willoughby twillo2@emory.edu

Center for Childhood Infections and Vaccines

Program Manager Megan Vallowe, PhD Megan.Vallowe@emory.edu

Children's Center for Neurosciences Research

Program Manager: Gillian Glauber gillian.Glauber@emory.edu

Center for Pediatric Cellular Therapies

Program Manager: TBH

Children's Center for Immunity and Applied Genomics

Program Manager: Tracy Willoughby twillo2@emory.edu

Center for Advanced Pediatrics (CAP)

1400 Tullie Road, NE

Atlanta, GA 30329

Lead Research Nurse, Pediatric

Research Center Unit (PRCU/CAP

Building): Cheryl Stone, RN

cheryll.stone@choa.org



Marcus Autism Center

1920 Briarcliff Road, NE

Atlanta, GA 30329 *Program Manager: Gillian Glauber*

qillian.Glauber@emory.edu



Support Center I & II

1575 Northeast Expressway

Atlanta, GA 30329



Research Snapshot March 2022

Georgia Institute of Technology Atlanta Pediatric Technology Center

Main Contacts:

Chief Innovation Officer: Wilbur Lam, MD, PhD,

wilbur.lam@emory.edu

Chief Scientific Officer: M.G. Finn, PhD mgfinn@gatech.edu

Program and Operations Manager: Sheri Russell

Sheri.Russell@gatech.edu

950 Atlantic Drive, NW Atlanta, GA 30332



Hughes Spalding Hospital

35 Jesse Hill Jr. Drive SE

Atlanta, GA 30303-3032

Research Coordinator, Marco Benoit, MS

Macarthur.benoit@choa.org

Morehouse School of Medicine

PI: Lily Immergluck, MD, FAAP

<u>Limmergluck@msm.edu</u>



Scottish Rite Hospital*

1001 Johnson Ferry Road NE

Atlanta, GA 30342-1605

Children's Center for Clinical and Translational Research

Center Directors: Claudia Morris, MD, FAAP

claudia.r.morris@emory.edu and Miriam Vos, , MD, MSPH

MVOS@emory.edu Program Manager: Kelcey Little, MS,

Kelcey.little@emory.edu

Manager, SR Campus: Marco Benoit (Macarthur.Benoit@choa.org

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

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 Leadership Team (RLT) meetings: Designed for central team to discuss detailed operations and issues. For more information, contact Stacy Heilman stacy.heilman@emory.edu	Research Advisory Council (RAC) meetings: twice monthly; restricted to RAC membership, contact Clint Joiner, MD, PhD for inquiries or suggestions Clinton.joiner@emory.edu
K club: Monthly discussions/lectures for K award training, other grants training/education. Typically 2 nd Monday, September to May, Contact Stacy Heilman Stacy.heilman@emory.edu for more information. Sponsored by Departments of Pediatrics and Medicine, Georgia CTSA, CFAR and Winship Cancer Institute		Research Grand Rounds: one Wednesday each month, Egleston, 8:00 AM Contact Meredith Capasse meredith.capasse@emory.edu		Research Seminars: Fridays (Zoom/Egleston Classrooms). Contact Meredith Capasse for suggestions or needs Meredith.capasse@emory.edu	Invited speakers through seminar series sponsored by centers; contact Center Directors or Meredith Capasse at Meredith.capasse@emory.edu 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	Nitya Bakshi, MD nitya.bakshi@emory.edu	Ming Shen mshen@emory.edu	 Small animal ventilator Cautery Temperature monitoring Anesthesia system Dissecting microscope Visualsonics Vevo 2100 High Frequency Ultrasound* 	Emory-Children's Center, 2 nd Floor Lab	This core is a centralized resource specializing in survival surgery for rats and mice in addition to assistance with other USDA regulated animals such as rabbits, guinea pigs and piglets. The core director assists all investigators with development of IACUC protocols. Surgical services currently offered by the Core include pulmonary banding in rat and neonatal rabbit, aortic banding, myocardial infarction 5/6th nephrectomy for chronic kidney disease, liver-ischemia reperfusion and ultrasound guided injection ideally suited for targeted drug or cell therapy delivery. The Core also has available for use a Visualsonics Vevo 2100 High Frequency Ultrasound system that allows high resolution small animal ultrasound examinations for noninvasive measurement of in vivo structure and function. The Core Technical Director has been extensively trained in ultrasound techniques with many years' experience thereby increasing reliability and reproducibility of imaging data. Studies can either be conducted in an assisted fashion or investigators can reserve the equipment and utilize their own laboratory personnel.		
<u>Biomarkers Core</u>	Lou Ann Brown, PhD lou.ann.brown@emory.edu 404-727-5739	Frank Harris fharris@emory.edu	Agilent gas chromatography/mass 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 Core (CIRC)	Ritu Sachdeva, MD sachdevar@kidsheart.com 404-785-CIRC	Joan Lipinski, RDCS, RDMS ioan.Lipinski@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.		
Flow Cytometry/Cell Sorting	David Archer darcher@emory.edu	Technical Director for Core: Aaron Rae aaron.j.rae@emory.edu Immunology services are overseen by Bridget Neary bridget.e.neary@emory.edu	Lab E-362, HSRB BD LSRII Flow Cytometer - Lab E-362, HSRB	Health Sciences Research Building, E362	This core offers access to several state of the art analytical flow cytometers and Luminex 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. The facility provides flow cytometric analyzers and Luminex for the following applications: Immunophenotyping Cell Cycle Ploidy Mitochondrial Potential Apoptosis PhosFlow Live/Dead Cell Proliferation Oxidative Burst Cytokine leveins in serum and plasma Gene and protein expression in cells and body fluids		

Research Snapshot March 2022

Specialized Research Equipment/Service Cores

CORE	SCIENTIFIC DIRECTOR	TECHNICAL DIRECTOR/ CONTACT	EQUIPMENT	LOCATION	SERVICES
Resources	'	Erica Riedesel, MD Erica.Riedesel@choa.org	•Access to clinical CT (4), PET (1), Bone 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 Freezers (-80, LN2)	Health Sciences Research Building, E264	We provide a cross-disciplinary scientific, administrative, and 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 Outpatient Imaging Resources Collection Processing Storage in a variety of storage media and freezers, including liquid nitrogen and -80 degree freezers. Monitoring systems ensure 24/7 specimen integrity. Distribution - Specimens are tracked electronically via the Nautilus LIMS System. Samples Available for Withdrawal PBMCs, plasma, whole blood, DNA, and urine from pediatric patients with immune-mediated disorders, solid organ transplant recipients and/or patients with end-stage organ disease who are awaiting organ transplant Blood and urine from living kidney donors and healthy controls with renal diagnoses of rejection, stable function or viremia
					Clinical data also can be made available upon request.

Partnership Cores

CORE	SCIENTIFIC DIRECTORS	EQUIPMENT	LOCATION	SERVICES			
Integrated Cell Imaging Core	Adam Marcus, PhD Director, ICI aimarcu@emory.edu Laura Fox-Goharioon Associate Director for Research Projects, ICI laura.fox- goharioon@emory.edu 404-969-CORE April Reedy April.reedy@emory.edu	The rates for the microscopes included in this effort can be found at: http://www.cores.emory.edu/ici/do cuments/ICl%20Fees- Pediatrics%2020171.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 http://www.cores.emory.edu/eigc/	A partnership facilitated by the Emory School of Medicine and includes the Pediatric Research Alliance 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/research/cores/integrated-cellular-imaging-core/overview/			
Genetics/ Genomics Core Resources	The Emory Integrated Genomics Core (EIGC): EIGC@emory.edu	Core (EIGC): technologies and methods of analysis in their research. We offer next-generation sequencing, high densit					
	Emory Genetics Laboratory (EGL): dohginfo@emory.edu_or domglab@emory.edu	Emory Genetics Laboratory (EGL) is a "one-stop shop" for genetic testing. Its molecular genetics, biochemical genetics, and cytogenetics laboratories are fully integrated and offer one of the most comprehensive test menus available – more than 900 genetic tests are available for clinicians and researchers. As part of Emory University School of Medicine, EGL remains on the forefront of the latest technologies, including exome sequencing, next generation sequencing, whole genomic and targeted microarrays, and more. ABMG-accredited laboratory directors and NSGC-certified laboratory genetic counselors are available to all ordering clinicians and researchers. For more information, please visit Emory Genetics Laboratory.					

Funding Opportunities:

Funding Opportunity	Funding Limit	Funding Term	Deadline	Eligibility	Post Award Expectations	Additional Information
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 Pediatric Technology Center (PTC)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. 	http://www.ped sresearch.org/re search/resource s/funding/pilot- grant-programs

Imlay Innovation Fund

Intended solely to support collaborative activities and pediatric innovation and discovery efforts between Georgia Tech and Children's. focusing on practical steps that will lead to clinical impact as well as potential commercial

opportunities.

Two types of projects are eligible for funding:

- 1.Quick Wins: Quick Wins (QW) allows Children's clinicians and clinical administrative leaders to bring problems that impact care delivery to the attention of scientists and engineers at Georgia Tech to help develop innovative solutions. Successful projects have ranged from pediatric specific surgical device development in partnership with a surgeon and biomedical engineer to improvement of workflow in a busy outpatient clinic in partnership with physicians, clinical administrative leadership, architectural researchers, and industrial engineers. Quick Wins supports projects that can be accomplished in 12-18 months and can be quickly translated into practice. It is possible, but not guaranteed, that a Quick Wins award could help to position an investigator for a successful Innovation Investment application (described below) within the 2 years following the QW award. Quick Wins awards will be funded up to \$125K.
- **2.Innovation Investment:** Innovation Investment is intended to help bridge the funding gap that often blocks the next phase of implementation or commercialization after initial proof of concept. Innovation Investment awards should allow investigators to collect much-needed data, complete further proof-of-concept studies, or to produce prototypes for testing in order to effectively compete for extramural or investment funding. Innovation Investment projects will typically be funded for a one-year period. Applications for multi-year awards will be accepted only with prior approval, and can receive a total of no more than \$250K. An important part of the proposal is a potential for commercialization and/or implementation, as well as potential to positively impact child health.

For more information: https://ptc.gatech.edu/imlay-innovation-fund-1

Additional Resources:

Research listserv:

Contact Meredith.capasse @emory.edu 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

- Christine Willis
 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 <u>following link: https://www.choa.org/medical-professionals/physician-resources/medical-libraries</u>