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Pediatric Research Alliance

Snapshot March 2017

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 our co-directors for research Cynthia Wetmore, MD, PhD Cynthia.Wetmore@emory.edu or Stacy Heilman, PhD stacy.Heilman@emory.edu

Research Resources

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

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

Biostatistics Core
- Courtney McCracken, PhD
  - Traci Leong, PhD
  - 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

Clinical studies/coordinators
- **CHOA Clinical Research Administration**
  Kris Rogers, RN, CRA, Director
  404-785-1215
  Kristine.rogers@choa.org
- **Manager, Egleston campus:**
  Allison Wellons 404-785-6459
  Allison.wellons@choa.org
- **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

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/clinical-research/pediatric-research-center/

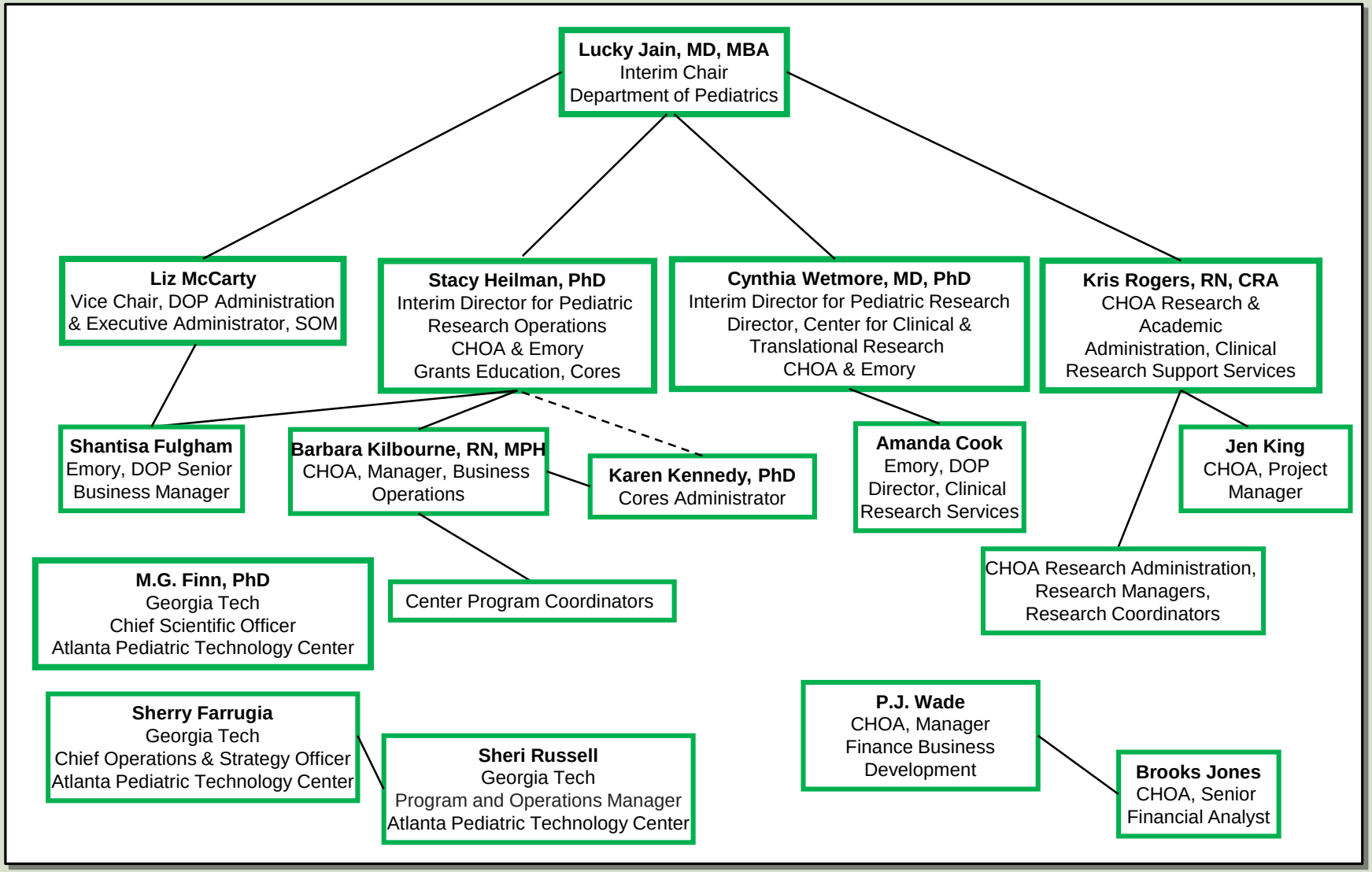
Emory Clinical Research Services
- Amanda Cook, Director
  404-727-5234 amcook@emory.edu
- Kesley Tyson, MS, CCRP, Start-up & Compliance Coordinator
  404-727-2189 kdtyson@emory.edu

Scientific Facilities Manager
- Kira Moresco, MS
  kira.moresco@emory.edu
  404-727-6515

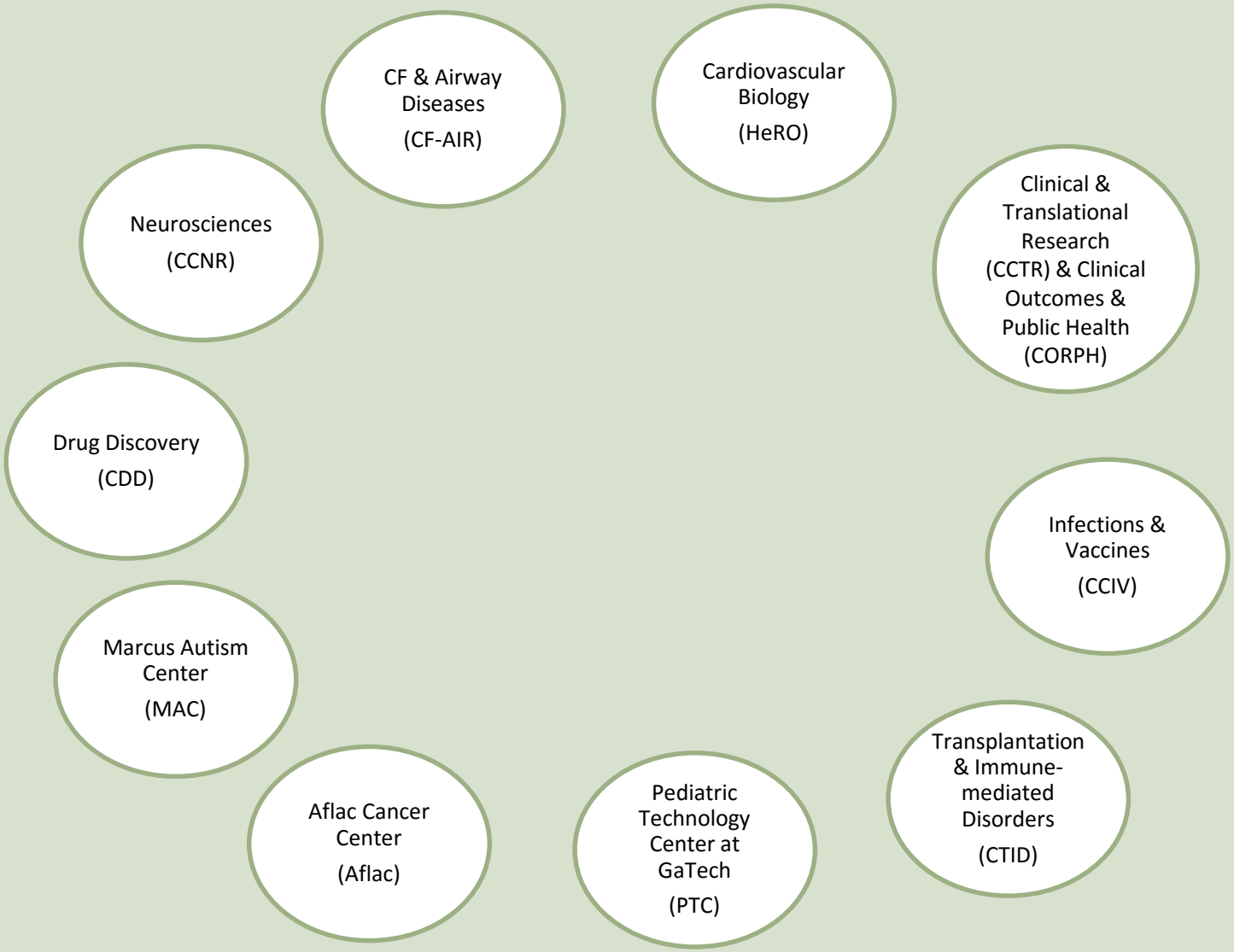
Equipment Core: Biosafety cabinet, incubators, clinical centrifuge, real-time PCR machine, standard PCR machine, multilabel plate reader, gel documentation system on order Services: This core provides common equipment for investigator's use, including access to benchtop space and hood space, centrifuges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

Laboratory Specimen Processing: Clinical Laboratory at Egleston and Scottish Rite
- Heather MacDonald, Manager Advanced Diagnostics Laboratory 404-785-5766
  Heather.macdonald@choa.org
- Clinical trials specimen processing, shipping, limited storage
- ACTSI processing lab
- Laboratory inventory management system (LIMS) available

Research Leadership



Pediatric Research Alliance Centers*



*For more information, please see center web pages at pedsresearch.org

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 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

Clinical Outcomes Research and Public Health
Program Coordinator: Tracy Willoughby
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Center for Cystic Fibrosis & Airways Disease Research
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Program Coordinator: Karen Kennedy, PhD
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Center for Drug Discovery
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Program Coordinator: Barbara Kilbourne, RN, MPH bkilbou@emory.edu

Center for Childhood Infections and Vaccines
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Program Coordinator: Karen Kennedy, PhD
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Children's Center for Neurosciences Research
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ton.degrauw@choa.org
Research Director: Alex Kuan, MD, PhD
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Program Coordinator: Tracy Willoughby
twillo2@emory.edu

Center for Transplantation & Immune-mediated Disorders
Center Director: Subra Kugathasan, MD
skugath@emory.edu
Program Coordinator: Jennifer Villaseñor
jkenny@emory.edu

Marcus Autism Center
Center Director: Ami Klin, PhD
Director of Research: Warren Jones, PhD
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Associate Director of Research, Chris Gunter, PhD
Chris.gunter@emory.edu
Program Coordinator: Christina Wessels
Christina.wessels@choa.org

Pediatric Technology Center
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mgfinn@gatech.edu
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Research Center Administration:

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Richard W Blumberg Professor and Interim Chair
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Interim Co-Director for Research
Director, Center for Clinical & Translational Research and Director, Clinical Research for Children's & Emory
Dept of Pediatrics, Emory University
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Barbara W. Kilbourne, RN, MPH
Manager, Business Operations, Research Strategy Leadership, Children's Healthcare of Atlanta
barbara.kilbourne@choa.org

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

Co-Directors for Research *Cynthia Wetmore, MD, PhD* *Cynthia.Wetmore@emory.edu* *and Stacy Heilman, PhD* *stacy.Heilman@emory.edu*
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Centers:

Aflac Cancer and Blood Disorders Center
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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

- ***Clinical Outcomes Research & Public Health*** *Program Coordinator: Tracy Willoughby twillo2@emory.edu*

Center for Cystic Fibrosis & Airways Disease Research
Program Coordinator: Karen Kennedy, PhD kmurra5@emory.edu

Center for Drug Discovery *Program Coordinator: Barbara Kilbourne, RN, MPH* *bkilbou@emory.edu*

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

Children's Center for Neurosciences Research Program Coordinator: *Tracy Willoughby twillo2@emory.edu*

Center for Transplantation & Immune-mediated Disorders *Program Coordinator: Jennifer Villaseñor jkenny@emory.edu*

Marcus Autism Center

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Program Coordinator: Christina Wessels
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Georgia Institute of Technology
Pediatric Technology Center

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Morehouse School of Medicine

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Scottish Rite Hospital*

1001 Johnson Ferry Road NE
Atlanta, GA 30342-1605

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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

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. For more information, contact Stacy Heilman stacy.Heilman@emory.edu		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 1st and 3rd Friday, usually held 3rd floor break area, E-CC	Research Advisory Council (RAC) meetings: twice monthly; restricted to RAC membership, contact Cynthia Wetmore for inquiries or suggestions Cynthia.Wetmore@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 and CFAR*		Research Grand Rounds: 3rd 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	Josh Maxwell, PhD joshua.t.maxwell@emory.edu		• Small animal ventilator • Cautery • Temperature monitoring • Anesthesia system • Dissecting microscope • Visualsonics Vevo 2100 High Frequency Ultrasound*	Emory-Children's Center, 2nd 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.
Biomarkers Core	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, 3rd 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 joan.Lipinski@choa.org	-Echocardiograms - Flow Doppler -3-D Imaging -Upright Bicycle -VO2 Analysis -Electrocardiogram -Cardiac MRI	Outpatient Cardiac Services, 2nd 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	• BD FACS Canto II Flow Cytometer - Lab E-362, HSRB • BD LSRII Flow Cytometer - Lab E-362, HSRB • BD LSRII Flow Cytometer - Lab E-362, HSRB • BD FACS Aria II Cell Sorter - Lab E-362A, HSRB • Imagestream X Mark II - Lab E-362, HSRB • Miltenyi AutoMACS Pro - Whitehead, RM 655 • Luminex 100 Analyzer - Lab E-362, HSRB • CTL-ImmunoSpot-S6 Micro Analyzer (ELISPOT Reader) - E-480, 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

Specialized Research Equipment/Service Cores *(continued)*

CORE	SCIENTIFIC DIRECTOR	TECHNICAL DIRECTOR/ CONTACT	EQUIPMENT	LOCATION	SERVICES
Medical Imaging Resources	Radiologists at 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.		• 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		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
Biorepository	Cynthia Wetmore, MD, PhD Cynthia.wetmore@emory.edu	Bradley Hanberry, PhD bradley.hanberry@emory.edu	Freezers (-80, LN2)	Health Sciences Research Building, E264	New Biological Samples • 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 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 to use the latest technologies and methods of analysis in their research. We offer next-generation sequencing, high density microarray services, targeted enrichment, single nucleotide polymorphism (SNP) genotyping, and cutting-edge computational services built around our custom Galaxy server and Emory University's high performance computing 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	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
Friends	$25,000	12-18 months	Once annually	1. Children's professional staff who do not also have a compensated faculty appointment 2. Must be for clinical or outcomes research taking place in Children's facilities	1. Must provide annual and final reports. 2. Must be willing to present findings to Friends groups, Children's leadership, etc.	http://www.pedsresearch.org/research-tools/research-funding/friends/
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	1. Must provide annual report specifying related publications, grant applications submitted and extramural funding received. 2. Must apply for extramural funding within one year of project conclusion date.	http://www.pedsresearch.org/research-tools/research-funding/pilots/

Funding Opportunities *(continued):*

Funding Opportunity	Funding Limit	Funding Term	Deadline	Eligibility	Post Award Expectations	Additional Information
Quick Wins	varies	12-24 months	ongoing	1. Project proposals must be submitted by teams comprised of individuals from each organization, Children's and Georgia Tech. 2. 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://pediatriconnect.gtri.gatech.edu/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: http://health.library.emory.edu/about/contact/ask.php

Scottish Rite and Egleston Library Resources

- Emily Lawson
  Clinical Information Librarian, Inman Medical Library at Children's at Egleston
  404-785-1481
- Kate Daniels
  Clinical Information Librarian at Scottish Rite
  404-785-2157
- If you have access to Careforce — 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	PHOTO	CENTER	TITLE	START DATE	RECRUITED FROM	RESEARCH INTERESTS
Jeong Hong, PhD		Center for Cystic Fibrosis and Airways Disease Research (CF-AIR)	Associate Professor	September 2016	University of Alabama in Birmingham (UAB)	A long standing interest of her laboratory has pursued studies of cystic fibrosis (CF). For more than 20 years, she has directed laboratory aspects of a highly collaborative and productive joint CF research program with Dr. Eric Sorscher, former head of the UAB CF Research Center and now a professor at Emory and a member of CF@LANTA . Her group investigates structural and functional aspects of the CFTR gene product in relation to disease associated mutations, with the goal of promoting new 'precision-type' treatments. She has served as a member of the international CF theratyping initiative since its inception in 2014, and developed epithelial cell models encoding clinically relevant CF alleles.
Jennifer Kwong, PhD		Children's Heart Research and Outcomes Center (HeRO)	Assistant Professor	September 2016	Cincinnati Children's Hospital Medical Center	Dr. Kwong studies molecular mechanisms of heart failure, broadly applicable to both children and adults. Many of the metabolic issues do come about during childhood, and she brings a mouse model that does recapitulate a subtype of pediatric dilated cardiomyopathy.
Chris Porter, MD		Aflac Cancer and Blood Disorders Center (Aflac)	Associate Professor	September 2016	Children's Hospital Colorado	My research interests include methods of gene therapy and drug targets for leukemia.

*Recruits for the past year

Research Recruitment Update*:

NAME	PHOTO	CENTER	TITLE	START DATE	RECRUITED FROM	RESEARCH INTERESTS
Robert Schnepp, MD, PhD		Aflac Cancer and Blood Disorders Center (Aflac)	Assistant Professor	September 2016	Children's Hospital of Philadelphia	Defining the Role of LIN28B Signaling in Neuroblastoma
Curtis Henry, PhD		Aflac Cancer and Blood Disorders Center (Aflac)	Assistant Professor	September 2016	University of Colorado, School of Medicine, Biochemistry and Molecular Genetics	Aging is the most important prognostic factor associated with the development of many cancers including leukemias mediated by the oncogene Bcr-Abl. My research focuses on understanding how aging-associated increases in inflammation reduce hematopoietic progenitor cell fitness and subsequently promote leukemogenesis mediated by Bcr-Abl, Ras, and Myc oncoproteins. Findings from these studies will reveal how the expression of an oncogene can correct or circumvent aging-associated defects in hematopoietic progenitor cells leading to the evolution of cancer.
Lindee Morgan, PhD		Marcus Autism Center (MAC)	Assistant Professor	August 2016	Florida State University, Tallahassee	Community implementation

*Recruits for the past year

Research Recruitment Update*:

NAME	PHOTO	CENTER	TITLE	START DATE	RECRUITED FROM	RESEARCH INTERESTS
Michael Siller, PhD		Marcus Autism Center (MAC)	Associate Professor	August 2016	University of California at Los Angeles	My research program investigates the social, emotional, and communicative development of individuals with Autism Spectrum Disorder (ASD) across the lifespan. Before coming to Hunter, my research included a prospective longitudinal study evaluating the development of spoken language in individuals with ASD from preschool to early adulthood (Siller & Sigman, 2002). After joining Hunter in 2007, I published a replication of key findings using an independent sample of preschoolers with ASD followed over 3 years (Siller & Sigman, 2008). Results from both studies reveal that children's rate of language acquisition is independently predicted by baseline measures of (1) children's social comprehension, and (2) responsive parental communication observed during toy play. Based on these early findings, my research has evolved to address three related aims.
Nelson Di Paolo, PhD		Center for Transplantation and Immune-mediated Disorders (CTID)	Assistant Professor Division of Rheumatology, Department of Pediatrics Lowance Center for Human Immunology, Department of Medicine	August 2016	Emory University	Functional activation of IL-1a and other pro-inflammatory cytokines and macrophage function in health and disease.
Erin Buckley, PhD		Children's Heart Research and Outcomes Center (HeRO)	Assistant Professor Georgia Tech/Emory Department of Biomedical Engineering Children's Healthcare of Atlanta Research Scholar	March 2016	Massachusetts General Hospital	Our laboratory is currently focused on improving clinical outcomes in pediatric patients at high-risk for brain injury. We study the brain using 2 novel optical techniques known as diffuse correlation spectroscopy (DCS) and frequency domain near-infrared spectroscopy (FDNIRS). When combined, these non-invasive optical techniques can be used to quantify cerebral oxygenation, blood volume, blood flow, and oxygen metabolism. The clinical translation of these technologies holds great potential to elucidate warning signs of brain damage, aid in therapeutic monitoring, and initiate early rehabilitative strategies.

*Recruits for the past year