

# Emory+Children's Pediatric Research Center

## Update October 2015

### Research Resources

#### 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](http://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](mailto:paul.spearman@emory.edu)).

#### Grant and Manuscript Support

- **Stacy Heilman, PhD**  
Grants Advocate  
404-727-4819  
[stacy.heilman@emory.edu](mailto: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](http://pedsresearch.org); send to Stacy Heilman.*

#### Biostatistics Core

- **Courtney McCracken, PhD**
    - Traci Leong, PhD
    - Scott Gillespie, MS
    - Mike Kelleman, MSPH
    - Curtis Travers, MPH
    - Elizabeth Wang
- Procedure:* Request form located at:  
<http://www.pedsresearch.org/cores/detail/biostats>  
*Priorities:* analysis for grant applications and Publications

#### Clinical studies/ coordinators

- **Kris Rogers, RN, CRA**  
Director, CHOA Clinical Research Administration  
404-785-1215  
[Kristine.rogers@choa.org](mailto:Kristine.rogers@choa.org)
- **Manager, Egleston campus:**  
**Allison Wellons** 404-785-6459  
[Allison.wellons@choa.org](mailto:Allison.wellons@choa.org)

- **Manager, Hughes Spalding/Scottish Rite campuses: Beena Desai**  
404-785-2269  
[beena.desai@choa.org](mailto:beena.desai@choa.org)

- **Nurse Manager, Pediatric Research Unit (PRC/Egleston): Stephanie Meisner, RN**  
[Stephanie.Meisner@choa.org](mailto: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](mailto:amcook@emory.edu)

#### Scientific Facilities

##### Manager

- **Kira Moresco, MS**  
[kira.moresco@emory.edu](mailto:kira.moresco@emory.edu)  
HSRB, G72, 404-727-6515

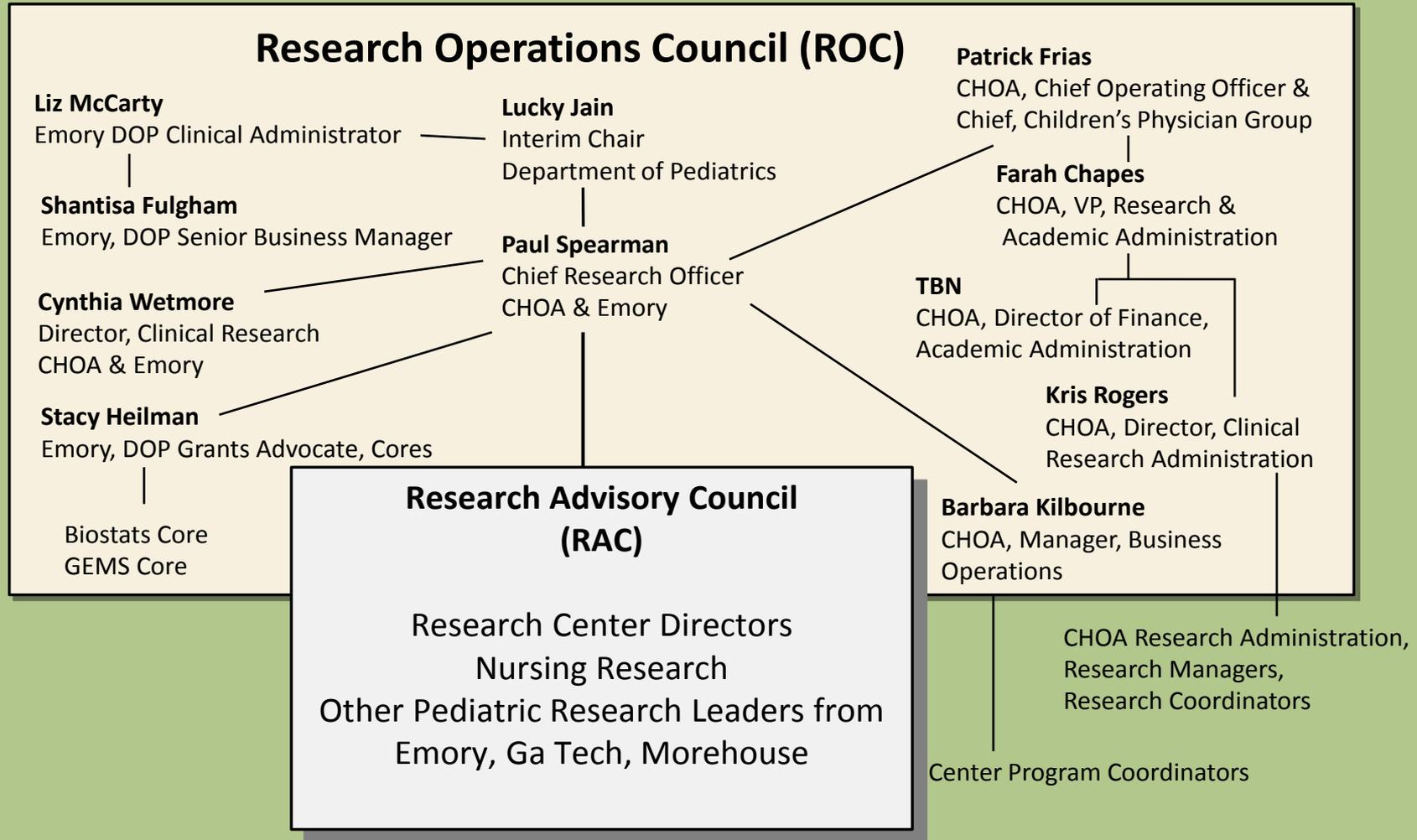
**Equipment Core:** *Biosafety cabinet, incubators, clinical centrifuge, real-time PCR machine, standard PCR machine, multilabel plate reader, gel documentation system on order* **Services:** *This core provides common equipment for investigator's use, including access to benchtop space and hood space,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

#### Laboratory Specimen

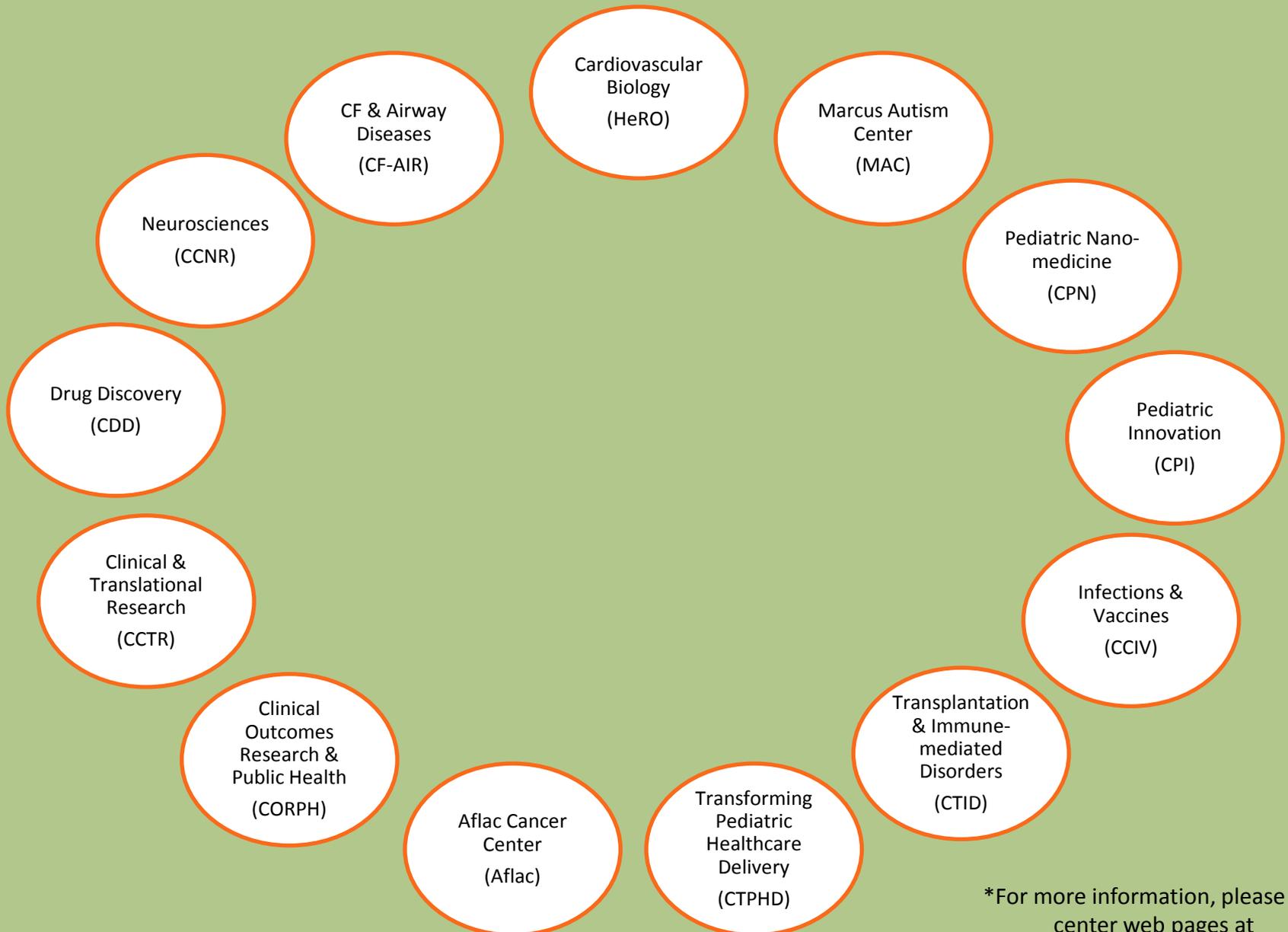
##### Processing: Clinical Laboratory at Egleston and Scottish Rite

- **Heather MacDonald, Manager,**  
Advanced Diagnostics Laboratory  
404-785-5766  
[Heather.macdonald@choa.org](mailto:Heather.macdonald@choa.org)
- *Clinical trials specimen processing, shipping, limited storage*
- *ACTSI processing lab*
- *Laboratory inventory management system (LIMS) available*

# Research Leadership:



# Emory+Children's Pediatric Research Centers\*



\*For more information, please see center web pages at [pedsresearch.org](http://pedsresearch.org)

# Emory+Children's Pediatric Research Center Contacts

## Center Directors:

### **Aflac Cancer and Blood Disorders Center**

**Center Director: Doug Graham, MD, PhD**  
[douglas.graham@choa.org](mailto:douglas.graham@choa.org)

Program Coordinator: Faith Barron  
[faith.barron@emory.edu](mailto:faith.barron@emory.edu)

### **Children's Heart Research and Outcomes Center**

**Center Director: Mike Davis, PhD**  
[michael.davis@bme.gatech.edu](mailto:michael.davis@bme.gatech.edu)

Program Coordinator: Kristen Herzegh, BA, MPH  
[kcoshau@emory.edu](mailto:kcoshau@emory.edu)

### **Center for Clinical and Translational Research**

**Center Director: Cynthia Wetmore, MD, PHD**  
[cynthia.wetmore@emory.edu](mailto:cynthia.wetmore@emory.edu)

Program Coordinator: Kristen Herzegh, BA, MPH  
[kcoshau@emory.edu](mailto:kcoshau@emory.edu)

### **Center for Cystic Fibrosis & Airways Disease Research**

**Center Director: Nael McCarty, PhD**  
[namccar@emory.edu](mailto:namccar@emory.edu)

Program Coordinator: Karen Kennedy, PhD  
[kmurra5@emory.edu](mailto:kmurra5@emory.edu)

### **Center for Drug Discovery**

**Center Director: Baek Kim, PhD**  
[Baek.kim@emory.edu](mailto:Baek.kim@emory.edu)

Program Coordinator: Kristen Herzegh, BA, MPH  
[kcoshau@emory.edu](mailto:kcoshau@emory.edu)

### **Center for Childhood Infections and Vaccines**

**Co-Center Directors: Paul Spearman, MD and Marty Moore, PhD**

[paul.spearman@emory.edu](mailto:paul.spearman@emory.edu)  
[Martin.moore@emory.edu](mailto:Martin.moore@emory.edu)

Program Coordinator: Karen Kennedy, PhD  
[kmurra5@emory.edu](mailto:kmurra5@emory.edu)

### **Children's Center for Neurosciences Research**

**Center Director: Ton deGrauw, MD, PhD**  
[ton.degrauw@choa.org](mailto:ton.degrauw@choa.org)

**Research Director: Alex Kuan, MD, PhD**  
[alex.kuan@emory.edu](mailto:alex.kuan@emory.edu)

Program Coordinator: Jennifer Villaseñor  
[jkenny@emory.edu](mailto:jkenny@emory.edu)

### **Center for Pediatric Innovation**

**Co-Center Directors: Bob Guldberg, PhD and Kevin Maher, MD**

[robert.guldberg@me.gatech.edu](mailto:robert.guldberg@me.gatech.edu) and  
[maherk@kidsheart.com](mailto:maherk@kidsheart.com)

Program Coordinator: Hazel Stevens  
[hazel.stevens@me.gatech.edu](mailto:hazel.stevens@me.gatech.edu)

### **Center for Pediatric Nanomedicine**

**Center Director: MG Finn, PhD**  
[mgfinn@gatech.edu](mailto:mgfinn@gatech.edu)

**Co-Director: Tom Barker, PhD**  
[thomas.barker@bme.gatech.edu](mailto:thomas.barker@bme.gatech.edu)  
Program Coordinator: Erin Kirshtein  
[Erin.kirshtein@bme.gatech.edu](mailto:Erin.kirshtein@bme.gatech.edu)

### **Center for Transplantation & Immune-mediated Disorders**

**Center Director: Subra Kugathasan, MD**  
[skugath@emory.edu](mailto:skugath@emory.edu)

Program Coordinator: Jennifer Villaseñor  
[jkenny@emory.edu](mailto:jkenny@emory.edu)

### **Center for Transforming Pediatric Healthcare Delivery**

**Center Director: Beth Mynatt, PhD**  
[mynatt@cc.gatech.edu](mailto:mynatt@cc.gatech.edu)

Program Coordinator: TBN

### **Clinical Outcomes Research and Public Health**

**Center Director: Paul Spearman, MD (Acting)**

[paul.spearman@emory.edu](mailto:paul.spearman@emory.edu)  
Program Coordinator: Karen Kennedy, PhD  
[kmurra5@emory.edu](mailto:kmurra5@emory.edu)

### **Marcus Autism Center**

**Center Director: Ami Klin, PhD**  
**Director of Research: Warren Jones, PhD**

[ami.klin@emory.edu](mailto:ami.klin@emory.edu) or  
[ami.klin@choa.org](mailto:ami.klin@choa.org) and  
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**Associate Director of Research, Chris Gunter, PhD**

[Chris.gunter@emory.edu](mailto:Chris.gunter@emory.edu)  
Program Coordinator: Christina Wessels  
[Christina.wessels@choa.org](mailto:Christina.wessels@choa.org)

## Research Center Administration:

### **Lucky Jain, M.D., MBA**

Richard W. Blumberg Professor & Executive Vice Chair of the Department of Pediatrics  
Executive Medical Director, Faculty Practices of the Children's Physician Group  
[ljain@emory.edu](mailto:ljain@emory.edu)

### **Patrick Frias, MD**

Chief Operating Officer & Chief, Children's Physician Group, Children's Healthcare of Atlanta  
[pat.frias@choa.org](mailto: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](mailto: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  
[Cynthia.wetmore@emory.edu](mailto:Cynthia.wetmore@emory.edu)

### **Farah Chapes**

VP, Research & Academic Administration  
Children's Healthcare of Atlanta  
[Farah.chapes@choa.org](mailto:Farah.chapes@choa.org)

### **Kris Rogers, RN, CRA**

Director of Research Administration & Graduate Medical Education, Children's Healthcare of Atlanta  
[kristine.rogers@choa.org](mailto:kristine.rogers@choa.org)

### **Liz McCarty**

Clinical Administrator, Department of Pediatrics, Emory University  
[mmccar2@emory.edu](mailto:mmccar2@emory.edu)

### **Shantisa Fulgham**

Senior Business Manager, Department of Pediatrics, Emory University  
[sfulgha@emory.edu](mailto:sfulgha@emory.edu)

### **Stacy S. Heilman, PhD**

Director of Programs & Grants Advocate, Department of Pediatrics, Emory University & Children's Healthcare of Atlanta  
[stacy.heilman@emory.edu](mailto:stacy.heilman@emory.edu)

### **Barbara W. Kilbourne, RN, MPH**

Manager, Business Operations, Research Strategy Leadership, Children's Healthcare of Atlanta  
[barbara.kilbourne@choa.org](mailto: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

[Paul.spearman@emory.edu](mailto:Paul.spearman@emory.edu)

**Manager, Business Operations:** Barbara Kilbourne, RN, MPH

[barbara.kilbourne@choa.org](mailto:barbara.kilbourne@choa.org)

**Manager, Egleston campus:** Allison Wellons [allison.wellons@choa.org](mailto:allison.wellons@choa.org)

#### Centers:

##### Aflac Cancer and Blood Disorders Center

Program Coordinator: Faith Barron [faith.barron@emory.edu](mailto:faith.barron@emory.edu)

##### Children's Heart Research and Outcomes Center

Program Coordinator: Kristen Herzegh, BA, MPH [kcoshau@emory.edu](mailto:kcoshau@emory.edu)

##### Children's Center for Clinical and Translational Research

Program Coordinator: Kristen Herzegh, BA, MPH [kcoshau@emory.edu](mailto:kcoshau@emory.edu)

##### Center for Cystic Fibrosis & Airways Disease Research

Program Coordinator: Karen Kennedy, PhD [kmurra5@emory.edu](mailto:kmurra5@emory.edu)

##### Center for Drug Discovery

Program Coordinator: Kristen Herzegh, BA, MPH

[kcoshau@emory.edu](mailto:kcoshau@emory.edu)

##### Center for Childhood Infections and Vaccines

Program Coordinator: Karen Kennedy, PhD [kmurra5@emory.edu](mailto:kmurra5@emory.edu)

##### Children's Center for Neurosciences Research

Program Coordinator: Jennifer Villaseñor [jkenny@emory.edu](mailto:jkenny@emory.edu)

##### Center for Transplantation & Immune-mediated Disorders

Program Coordinator: Jennifer Villaseñor [jkenny@emory.edu](mailto:jkenny@emory.edu)

##### Clinical Outcomes Research and Public Health

Program Coordinator: Karen Kennedy, PhD [kmurra5@emory.edu](mailto:kmurra5@emory.edu)

### Marcus Autism Center

1920 Briarcliff Road, NE  
Atlanta, GA 30329

Associate Director of  
Research, Chris Gunter, PhD

[Chris.gunter@emory.edu](mailto:Chris.gunter@emory.edu)

Program Coordinator:

Christina Wessels

[Christina.wessels@choa.org](mailto:Christina.wessels@choa.org)



### 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](mailto:cynthia.wetmore@emory.edu)

Program Coordinator: Kristen Herzegh, BA,

MPH [kcoshau@emory.edu](mailto:kcoshau@emory.edu)

Manager, SR Campus: Beena Desai

[Beena.desai@choa.org](mailto:Beena.desai@choa.org)

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



### Georgia Institute of Technology

#### Main Contacts:

Strategic Partners Officer: Sherry Farrugia

[sherry.farrugia@innovate.gatech.edu](mailto:sherry.farrugia@innovate.gatech.edu)

Chief Engineer, Pediatric Technologies: Leanne West

[Leanne.West@gtri.gatech.edu](mailto:Leanne.West@gtri.gatech.edu)

75 5<sup>th</sup> 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](mailto:hazel.stevens@me.gatech.edu)



#### Center for Pediatric Nanomedicine

Department of Biomedical Engineering

313 Ferst Drive

Atlanta, GA 30332

Program Coordinator: Erin Kirshtein [Erin.kirshtein@bme.gatech.edu](mailto:Erin.kirshtein@bme.gatech.edu)



#### Center for Transforming Pediatric Healthcare Delivery

College of Computing

801 Atlantic Drive

Atlanta, GA 30332

Center Director: Beth Mynatt, PhD [mynatt@cc.gatech.edu](mailto:mynatt@cc.gatech.edu)



### Hughes Spalding Hospital

35 Jesse Hill Jr. Drive SE

Atlanta, GA 30303-3032

Research Coordinator, Saadia Khizer

[Saadia.khizer@choa.org](mailto:Saadia.khizer@choa.org)



### Morehouse School of Medicine

PI: Beatrice Gee, MD, AB, FAAP

[bgee@msm.edu](mailto:bgee@msm.edu)

PI: Lily Immergluck, MD, FAAP

[Limmergluck@msm.edu](mailto:Limmergluck@msm.edu)



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

# Specialized Research Equipment/Service Cores:

| CORE                                               | SCIENTIFIC DIRECTOR                                                                                         | TECHNICAL DIRECTOR/CONTACT                                                                   | EQUIPMENT                                                                                                                     | LOCATION                                                    | SERVICES                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <u>Animal Physiology Core</u>                      | Mary Wagner, PhD<br><a href="mailto:mary.wagner@emory.edu">mary.wagner@emory.edu</a><br>404-727-1336        | Rong Jiang, MD<br><a href="mailto:rjiang2@emory.edu">rjiang2@emory.edu</a>                   | Small animal surgical equipment                                                                                               | Emory-Children's Center, 2 <sup>nd</sup> 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.                                                                                                            |
| <u>Biomarkers Core</u>                             | Lou Ann Brown, PhD<br><a href="mailto:lou.ann.brown@emory.edu">lou.ann.brown@emory.edu</a><br>404-727-5739  | Janine Ward<br><a href="mailto:janine.ward@emory.edu">janine.ward@emory.edu</a>              | Agilent gas chromatography/mass spectrometer and Waters high performance HPLC with fluorescence detector                      | Emory-Children's Center, 3 <sup>rd</sup> Floor Lab          | This core analyzes markers of oxidative stress and markers of alcohol exposure. Speak to Scientific Director about other chromatography/mass spec assays available.                                                                                                                                                                                                                                                                                                  |
| <u>Cardiovascular Imaging Research Core (CIRC)</u> | Ritu Sachdeva, MD<br><a href="mailto:sachdevar@kidshearth.com">sachdevar@kidshearth.com</a><br>404-785-CIRC | Heather Freidman<br><a href="mailto:Heather.friedman@choa.org">Heather.friedman@choa.org</a> | -Echocardiograms<br>- Flow Doppler<br>-3-D Imaging<br>-Upright Bicycle<br>-VO2 Analysis<br>-Electrocardiogram<br>-Cardiac MRI | Outpatient Cardiac Services, 2 <sup>nd</sup> 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">Flow Cytometry/Cell Sorting</a> | David Archer<br><a href="mailto:darcher@emory.edu">darcher@emory.edu</a>                                                                                                                                                                                                      | Technical Director for Core:<br>Aaron Rae<br><a href="mailto:aaron.j.rae@emory.edu">aaron.j.rae@emory.edu</a><br><br>Immunology services are overseen by Bridget Neary<br><a href="mailto:bridget.e.neary@emory.edu">bridget.e.neary@emory.edu</a> | FACSCanto, LSRII, FACSARIA, AutoMACS<br><br>Specimen processing (hood, centrifuges, Coulter counter), Zeiss ELISPOT reader, ELISAs, assay design for intracellular cytokine staining (ICS), luminex 200 assays for protein quantitation, real-time PCR                                                                                                                                                                                                                                                                                                                                                                                                                                         | 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.<br><br>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 |
| <a href="#">Medical Imaging Resources</a>   | <a href="#">Radiologists at Children's</a> are board certified with additional training in pediatric imaging and are available for consultation upon request.<br><br>This operation also includes <a href="#">physicists with imaging expertise and other staff experts</a> . |                                                                                                                                                                                                                                                    | <ul style="list-style-type: none"> <li>• Access to clinical CT (4), PET (1), Bone Densitometry (2), Fluoroscopy (8), Nuclear Medicine (4), Ultrasound (9) and X-ray.</li> <li>• Access to 6 clinical MRI scanners including a 1.0T intraoperative, 1.5T and 3T systems.</li> <li>• Access to 2 fMRI systems.</li> <li>• Sedation Services</li> <li>• Access to radiology investigators specializing in radiology, neuroradiology and interventional radiology.</li> <li>• Access to MRI physicists (3).</li> <li>• Access to research professionals including administrators and research coordinators.</li> <li>• Administrative services including scheduling, archival of images</li> </ul> |                                          | 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.<br><br><a href="#">Inpatient Imaging Resources</a><br><br><a href="#">Outpatient Imaging Resources</a>                                                                                                                                                                                                                                                    |

| CORE in Development                                                                          | EQUIPMENT/LOCATION                                                                                                    | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">Specimen Repository</a><br><br>(which will enhance the Specimen Processing Core) | LIMS, freezers (-80, LN2)<br><br>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 Cores

| CORE                                                     | SCIENTIFIC DIRECTORS                                                                                                                                                                                                                                                                                                                                                                                                  | EQUIPMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | LOCATION                                                                                                                                                                                                                                                                                                             | SERVICES                                                                                                                                                                                                                                                                |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#"><u>Integrated Cell Imaging Core</u></a>      | Adam Marcus, PhD<br>Director, ICI<br><a href="mailto:aimarcu@emory.edu">aimarcu@emory.edu</a><br>Alexa Mattheyses, PhD<br>Associate Director, ICI<br><a href="mailto:mattheyses@emory.edu">mattheyses@emory.edu</a><br>Neil Anthony, PhD<br><a href="mailto:neil.anthony@emory.edu">neil.anthony@emory.edu</a><br>404-969-CORE                                                                                        | The rates for the microscopes included in this effort can be found at:<br><a href="http://ici.emory.edu/document/ICI%20Pediatrics%20Rates.pdf">http://ici.emory.edu/document/ICI%20Pediatrics%20Rates.pdf</a> .<br>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 <a href="http://ici.emory.edu">ici.emory.edu</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 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:<br><a href="http://www.pedsresearch.org/cores/detail/cell-imaging">http://www.pedsresearch.org/cores/detail/cell-imaging</a> |
| <a href="#"><u>Genetics/ Genomics Core Resources</u></a> | <p><b>The Emory Integrated Genomics Core (EIGC):</b><br/>           Michael Zwick, PhD<br/> <a href="mailto:mzwick@emory.edu">mzwick@emory.edu</a></p> <p><b>Emory Genetics Laboratory (EGL):</b><br/>           Madhuri Hegde, PhD, FACMG<br/> <a href="mailto:mhegde@emory.edu">mhegde@emory.edu</a><br/>           and Derek Stevens<br/> <a href="mailto:derek.stevens@emory.edu">derek.stevens@emory.edu</a></p> | <p>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: <a href="#">Emory Integrated Genomics Core</a>.</p> <p>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 <a href="#">Emory Genetics Laboratory</a>.</p> |                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                         |

# Funding Opportunities:

| Funding Opportunity                                                               | Funding Limit                     | Funding Term | Deadline                                                                                              | Eligibility                                                                                                                                                                                                                                | Post Award Expectations                                                                                                                                                                                                                                                  | Additional Information                                                                                                                                  |
|-----------------------------------------------------------------------------------|-----------------------------------|--------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Friends</b>                                                                    | \$25,000                          | 12-18 months | Usually 2 times a year in the spring and fall                                                         | <ol style="list-style-type: none"> <li>1. Children's professional staff who do not also have a compensated faculty appointment</li> <li>2. Must be for clinical or outcomes research taking place in Children's facilities</li> </ol>      | <ol style="list-style-type: none"> <li>1. Must provide annual and final reports.</li> <li>2. Must be willing to present findings to Friends groups, Children's leadership, etc.</li> </ol>                                                                               | <a href="http://www.pedsresearch.org/research-tools/research-funding/friends/">http://www.pedsresearch.org/research-tools/research-funding/friends/</a> |
| <b>Research Center Pilot Grants (including Emory &amp; GA Tech based centers)</b> | \$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 | <ol style="list-style-type: none"> <li>1. Must include a member of the center and/or member of Children's medical staff</li> <li>2. GA Tech-based centers (CPN, CPI and IPaT/CTPHD) must also include member of GA Tech faculty</li> </ol> | <ol style="list-style-type: none"> <li>1. Must provide annual report specifying related publications, grant applications submitted and extramural funding received.</li> <li>2. Must apply for extramural funding within one year of project conclusion date.</li> </ol> | <a href="http://www.pedsresearch.org/research-tools/research-funding/pilots/">http://www.pedsresearch.org/research-tools/research-funding/pilots/</a>   |

# Funding Opportunities (continued):

| Funding Opportunity                                         | Funding Limit | Funding Term | Deadline                                                        | Eligibility                                                                                                                                                                                                                                                                                                                                                                                                     | Post Award Expectations                                                                                                                                                                                | Additional Information                                                                                      |
|-------------------------------------------------------------|---------------|--------------|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>Dudley Moore Nursing and Allied Health Research Fund</b> | \$15,000      | 6-18 months  | Usually 1st Friday in May and 1 <sup>st</sup> Friday in October | <ol style="list-style-type: none"> <li>1. All Children's nursing and allied health staff who provide services at one of Children's locations are eligible.</li> <li>2. Excludes those with regular faculty appointments or who are employed by Emory</li> <li>3. Projects must have an impact on enhanced patient care, priority is given to projects that will provide evidence to change practice.</li> </ol> | Must be willing to present findings by request.                                                                                                                                                        | Fund restricted by donor to support nursing and allied health research at Children's                        |
| <b>Quick Wins</b>                                           | varies        | 12-24 months | ongoing                                                         | <ol style="list-style-type: none"> <li>1. Project proposals must be submitted by teams comprised of individuals from each organization, Children's and Georgia Tech.</li> <li>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.</li> </ol>                                                | 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. | <a href="https://pediatriconnect.gtri.gatech.edu/grants">https://pediatriconnect.gtri.gatech.edu/grants</a> |

# Additional Resources:

## **Research listserv:**

Contact [barbara.kilbourne@choa.org](mailto: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](http://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                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------|---------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bernardo A. Mainou, PhD |  | Center for Childhood Infections and Vaccines (CCIV) | Assistant Professor | September 2015 | Lamb Center for Pediatric Research<br>Division of Pediatric Infectious Diseases<br>Vanderbilt University School of Medicine | Dr. Mainou's research is focused on virus and host interactions, having developed expertise with enveloped DNA viruses as well as non-enveloped RNA viruses. As obligate intracellular pathogens, viruses require host cells to replicate, which has provided a strong platform to develop a series of assays to study cellular and viral processes. Dr. Mainou's research is centered on using knowledge from virus and cellular interactions to drive the development of viral therapeutics. |
| Sookyong Koh, MD, PhD   |  | Children's Center for Neurosciences Research (CCNR) | Associate Professor | September 2015 | Epilepsy Center, Ann & Robert H. Lurie Children's Hospital of Chicago                                                       | Dr. Koh is a pediatric neurologist and epileptologist. Her research interest is in inflammation of the central nervous system in relation to epilepsy, which she pursues currently in laboratory based animal models. In addition, Dr. Koh is interested in the clinical science of early-life onset seizure disorders and new onset seizures in general..                                                                                                                                     |

\*Recruits for the past year

Research Update October 2015

# Research Recruitment Update\*:

| NAME                 | PHOTO                                                                             | CENTER                                                           | TITLE                            | START DATE  | RECRUITED FROM                                                                                                                                                                                          | RESEARCH INTERESTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| Doug Graham, MD, PhD |  | Aflac Cancer and Blood Disorders Center (Aflac)                  | Professor/<br>Center Director    | August 2015 | Children's Hospital Colorado, Center for Cancer and Blood Disorders, University of Colorado Cancer Center University of Colorado Anschutz Medical Campus                                                | The Graham lab focuses much of its research on the role of Mer and Axl receptor tyrosine kinases (RTKs) in development and progression of human cancer. Mer is overexpressed in multiple human cancers and is transforming in vitro. With a particular focus on leukemia, lymphoma, and non-small cell lung cancer, the Graham lab has elucidated pro-survival pathways which are activated as a result of abnormal Mer and Axl activation. Specifically, the abnormal expression of Mer and/ or Axl leads to downstream activation of AKT and ERK 1/2 and mTOR, allowing cancer cells to survive even in the presence of apoptotic stimuli. In solid tumors, the Mer and Axl RTKs are important in cancer cell invasion. Using shRNA knockdown of Mer, a prolongation of survival has been found in xenograft studies. Recently, novel biologic inhibitors of Mer and Axl have been developed in the Graham lab and are being tested in preclinical in vitro and in vivo studies.                                                                                                        |
| Eric J. Sorscher, MD |  | Center for Cystic Fibrosis and Airways Disease Research (CF-AIR) | Professor/GRA<br>Eminent Scholar | July 2015   | Department of Medicine<br>Professor, Department of Cellular, Developmental and Integrative Biology<br>Professor, Department of Human Genetics<br>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. |

\*Recruits for the past year

Research Update October 2015

# Research Recruitment Update\*:

| NAME                       | PHOTO                                                                             | CENTER                                               | TITLE               | START DATE | RECRUITED FROM                                                                  | RESEARCH INTERESTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------|---------------------|------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dolores Hambarzumyan, 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 non-neoplastic 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.                                                                                                                                                               |
| Lazaros Kochilas, MD, MSCR |  | Children's Heart Research and Outcomes Center (HeRO) | Associate Professor | May 2015   | 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. |

# Research Recruitment Update\*:

| NAME                    | PHOTO                                                                               | CENTER                                                          | TITLE               | START DATE     | RECRUITED FROM                                          | RESEARCH INTERESTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------|---------------------|----------------|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Steven L. Goudy, MD     |    | Children's Heart Research and Outcomes Center (HeRO)            | Associate Professor | March 2015     | 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                                                                                                                                                                                  |
| Rheinallt M. Jones, PhD |    | Center for Transplantation and Immune-Mediated Disorders (CTID) | Assistant Professor | November 2014  | Department of Pathology, Emory University               | <b><u>Proposed Research Projects and Goals</u></b><br>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. <b><u>However, there is a gap in the knowledge concerning a mechanistic understanding of how the commensal microbiota influences these processes.</u></b> 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 <b><i>short term objective</i></b> 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      |  | Children's Heart Research and Outcomes Center (HeRO)            | Associate Professor | September 2014 | Cedars-Sinai Medical Center in Los Angeles              | Bioengineering of cardiac pacemakers, gene and stem cell-based therapies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

\*Recruits for the past year

Research Update October 2015