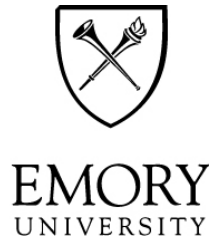




CF-AIR Online: Research resources and communication for the CF-AIR community

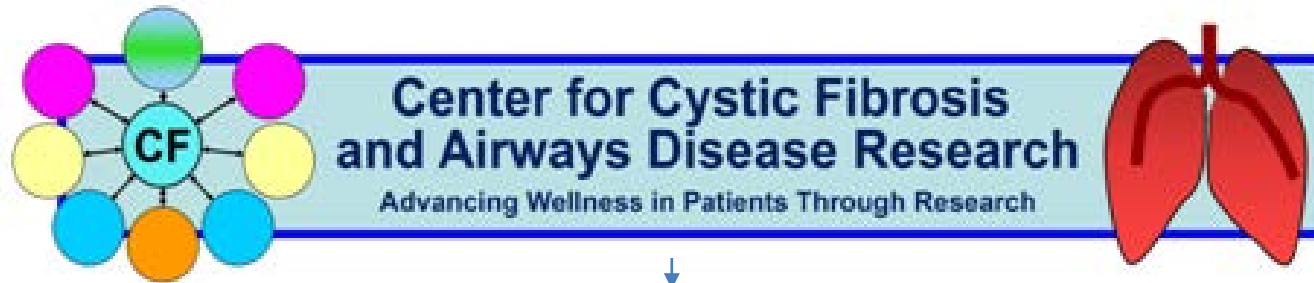
Karen Kennedy, PhD
Program Coordinator & Cores Administrator
Pediatric Research Alliance



EMORY • Children's • GT
Pediatric Research Alliance



Cystic Fibrosis
Foundation
Research Development
Program (RDP)



Faculty Researchers

Research Coordinators, Trainees, Research Technicians

CF-AIR in
the world

Pediatric Research Alliance Website

- www.pedsresearch.org
- Online home to CF-AIR (and CF@LANTA and the activities of the RDP)
- Also found here:
 - 10 other pediatric research centers as well as affiliated extramurally funded programs

[LEARN MORE >](#)

Centers

**AFLAC CANCER AND BLOOD
DISORDERS CENTER (AFLAC)** >

**CENTER FOR CHILDHOOD INFECTIONS
AND VACCINES (CCIV)** >

**CENTER FOR CLINICAL AND
TRANSLATIONAL RESEARCH (CCTR)** >

**CENTER FOR CYSTIC FIBROSIS AND
AIRWAYS DISEASE RESEARCH (CF-AIR)** >

CENTER FOR DRUG DISCOVERY (CDD) >

**CENTER FOR TRANSPLANTATION AND
IMMUNE-MEDIATED DISORDERS (CTID)** >

**CHILDREN'S CENTER FOR
NEUROSCIENCES RESEARCH (CCNR)** >

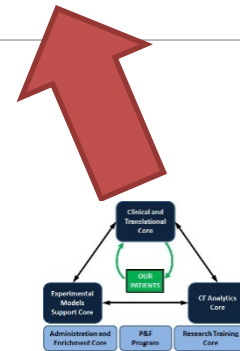
**CHILDREN'S HEART RESEARCH AND
OUTCOMES CENTER (HERO)** >

**CLINICAL OUTCOMES RESEARCH &
PUBLIC HEALTH (CORPH)** >

MARCUS AUTISM CENTER (MAC) >

PEDIATRIC TECHNOLOGY CENTER (PTC) >

EXTRAMURALLY FUNDED PROGRAMS >



Centers of the Pediatric Research Alliance



Children'sSM
Healthcare of Atlanta



EMORY
UNIVERSITY

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 - **14 cores specifically designed for supporting child health related research (and links to other Emory and GT cores)**

Cores

[LEARN MORE >](#)

[ANIMAL PHYSIOLOGY CORE >](#)

[BIOMARKERS CORE >](#)

[CHILDREN'S CLINICAL AND
TRANSLATIONAL DISCOVERY CORE >](#)

[BIostatISTICS CORE >](#)

[CARDIOVASCULAR IMAGING RESEARCH
CORE >](#)

[CF DISCOVERY CORE >](#)

[CF ANIMAL MODELS CORE >](#)

[FLOW CYTOMETRY CORE >](#)

[GENERAL EQUIPMENT CORE >](#)

[GRANT EDITING AND MANUSCRIPT
SUPPORT CORE >](#)

[INTEGRATED CELLULAR IMAGING CORE >](#)

[LABORATORY AND PATHOLOGY
CLINICAL RESEARCH CORE >](#)

[MEDICAL IMAGING RESOURCES >](#)

[PEDIATRIC HEART DISEASES DATA
REGISTRY CORE >](#)

[EMORY INTEGRATED CORE FACILITIES >](#)

[GEORGIA TECH CORES >](#)

Cores of the Pediatric Research Alliance



Children'sSM
Healthcare of Atlanta

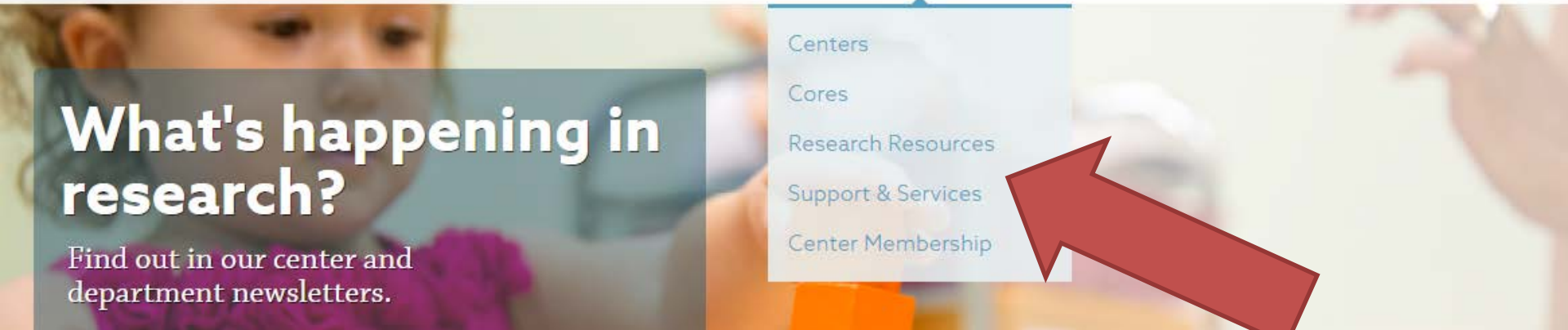


EMORY
UNIVERSITY

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 - 14 cores specifically designed for supporting child health related research (and links to other Emory and GT cores)
 - **Plentiful tools and resources for all levels of researchers**
 - **from undergrads to seasoned faculty**

RESEARCH	RESEARCH
Centers +	Centers +



What's happening in research?
Find out in our center and department newsletters.

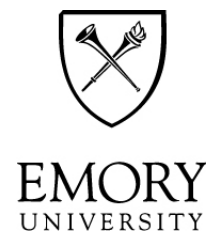
- Centers
- Cores
- Research Resources
- Support & Services
- Center Membership



- Opportunities
- Support & Services +
- Center Membership

- Patient Steward Funds
- AFLOAT Program (Training process for research assistants/pool of research interns)
- Center Membership

Research Resources of the Pediatric Research Alliance



CENTER FOR CYSTIC
FIBROSIS AND AIRWAYS
DISEASE RESEARCH (CF-AIR)

Overview

Seminars & Workshops

Newsletters & News

CF Center of Excellence
CF Center of Excellence
Mission

Clinical Care

Research

Education & Outreach

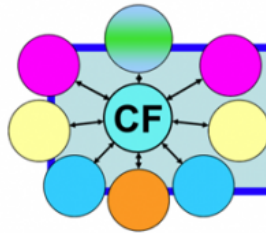
Cystic Fibrosis Research
The Systems Ecology of
the CF Lung

Asthma Research

Donors & Visitors

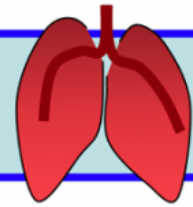
Meet Our Investigators

Overview



Center for Cystic Fibrosis and Airways Disease Research

Advancing Wellness in Patients Through Research



The Center for Cystic Fibrosis and Airways Disease Research (CF-AIR) is the home for two research programs, one focused on cystic fibrosis (CF), and one focused on asthma. Research in other airway diseases, such as COPD and non-CF bronchiectasis, also is of interest.

Weekly Digest

Your source for the latest announcements, news and upcoming events. [Click here](#) to get in your inbox each week.

View upcoming CF-AIR sponsored events [here](#).

Please click "Meet Our Investigators" in the left navigator column to view a summary of each member's research interests and collaborations.

Starting place for
everything CF-AIR,
CF@LANTA, and RDP

CF-AIR's
Homepage

www.pedsresearch.org/research/centers/cf-air

CF-AIR's homepage



- What to find here:
 - Information about reoccurring event series
 - News: Weekly Digest and back issues of the center newsletter
 - Information about foci of the center in both CF and Asthma
 - List of center members
- If you want to know something about CF research in Atlanta, this is the place to start!

CENTER FOR CYSTIC FIBROSIS AND AIRWAYS DISEASE RESEARCH (CF-AIR)

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CF Center of Excellence
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Cystic Fibrosis Research
The Systems Ecology of
the CF Lung

Asthma Research

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Meet Our Investigators

Where do I find...

- **Upcoming events**

- <http://www.pedsresearch.org/calendar/6> is the specific CF-AIR calendar
- CF-AIR Workshop and CF-TR Joint Lab Meeting details

 › [Research](#) › [Centers](#) › [Center for Cystic Fibrosis and Airways Disease Research \(CF-AIR\)](#) › [Seminars & Workshops](#)

Home > Calendar

Upcoming Events / CF-AIR

Search Events

List View Grid View

Browse by Category Browse by Date

CF-AIR

CF-AIR Workshop 1/24/18

JANUARY 24, 2018 / 4:00 pm - 5:00 pm

Weekly CF-AIR Workshop

January 24, 2018: Karen Kennedy, PhD

CF-AIR

CF-AIR

CF-TR Joint Lab Meeting 2/6/18

FEBRUARY 06, 2018 / 12:00 pm - 1:00 pm

CF-TR Joint Lab Meeting

February 6, 2018: Eric Sorscher, PhD

CF-AIR

CF-AIR

CF-AIR Workshop 2/7/18

FEBRUARY 07, 2018 / 4:00 pm - 5:00 pm

Weekly CF-AIR Workshop

February 7, 2018: Strategize & Social

CF-AIR

NEWS & EVENTS
Calendar
News
Newsletters
Conferences +
Recordings/Slides

January 2018						
SUN	MON	TUE	WED	THU	FRI	SAT
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3

CF-AIR-specific calendar



Children's
Healthcare of Atlanta



EMORY
UNIVERSITY

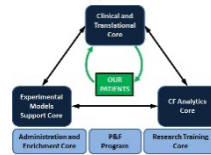
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🏠 › Research › Centers › Center for Cystic Fibrosis and Airways Disease Research (CF-AIR) › Seminars & Workshops

- **RDP information**



🏠 › Research › Centers › Extramurally Funded Programs › CF@LANTA RDP Center › Overview

CF@LANTA RDP CENTER

Overview

Atlantic Pediatric Device Consortium (APDC)
Overview

CF@LANTA RDP Center
Overview

CF Analytics Core

Clinical & Translational Core

Experimental Models Core

Research Training Core

Meet Our Investigators

RESEARCH

Centers



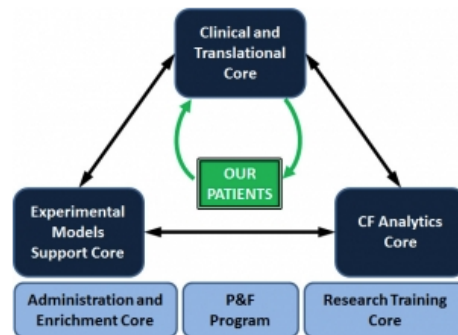
Cores



Overview

Emory University, Children's Healthcare of Atlanta, and Georgia Tech – the key components of Atlanta's comprehensive CF research program – have been awarded a grant from the Cystic Fibrosis Foundation (CFF) to establish the Atlanta CF Research and Development Program (CF@LANTA RDP Program). Nael McCarty, PhD, Marcus Professor of Cystic Fibrosis and Director of the CF Center of Excellence, is the Principal Investigator. The \$1.8 million, four-year, renewable grant will enable the partner institutions and our investigators to expand our currently funded CF research programs and translate the results more effectively to patients. The RDP mechanism will enable us to leverage the investments already made by Emory and Children's into a comprehensive CF research center.

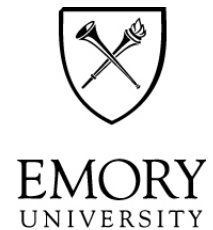
To learn more about other aspects of CF and airways disease research, check out the [CF-AIR center page](#).



OVERVIEW

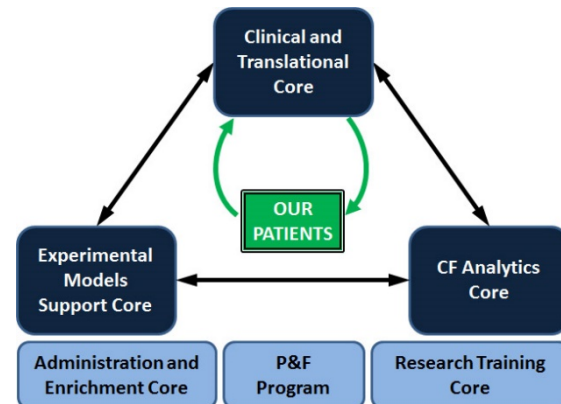
STRATEGIC VISION AND THEME

RDP homepage



Cores supported by the RDP

- <http://www.pedsresearch.org/research/centers/extramurally-funded-programs/cflanta-rdp-center>
- CF Analytics Core
 - Presence at GT and Emory
 - Provides subsidy funding for CF-related projects in the Biomarkers Core
- Clinical and Translational Core: integrated with CF Discovery Core
- Experimental Models Core
- Research Training Core



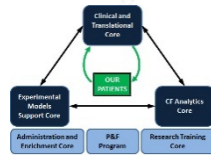
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🏠 › Research › Centers › Center for Cystic Fibrosis and Airways Disease Research (CF-AIR) › Seminars & Workshops

- RDP information



🏠 › Research › Centers › Extramurally Funded Programs › CF@LANTA RDP Center › Overview

- **Education information**

- Training Opportunities
- CF Scholars

🏠 › Research › Centers › Center for Cystic Fibrosis and Airways Disease Research (CF-AIR) › CF Center of Excellence › Education & Outreach

Other Resources on www.pedsresearch.org

- BiRD
- K-Club (Career Development)
- Grant Application Tools
- Research IT Resources
- Clinical Research Resources
- Presentation Templates
- Lab Pages
- Faculty Directory & Profiles



🏠 » Research » Resources » Funding » BiRD

Bringing In The Research Dollars! (BiRD)

Search Funding Opportunities 🔍

Browse by Sponsor ▼

Browse by Date ▼

UPCOMING DEADLINES

ROLLING/RECURRING DEADLINES

ALL OPPORTUNITIES

AHA Transformational Project Award

📅 Deadline: January 23, 2018

💰 Amount: \$100,000 a year for 3 years, including indirect costs

This American Heart Association award is to support highly innovative, high-impact projects that build on work in progress that could ultimately lead to critical discoveries or major advancements that will accelerate the field of cardiovascular and stroke research. Research deemed...

🔗 More info: http://professional.heart.org/professional/ResearchPrograms/UCM_497208_Transformational-Project-Award.jsp

📁 FOUNDATION/NON-GOVERNMENT

Improvement of Animal Models for Stem Cell-Based Regenerative Medicine (R24)—upcoming deadline

📅 Deadline: January 25, 2018

💰 Amount: Application budgets are not limited but need to reflect the actual needs of the proposed project. Maximum award period is



FUNDING

- Online Databases
- BiRD: Bringing in the Research Dollars
- Pilot Grant Programs

Find a Researcher

Area of Research ▼

Browse by Center ▼

Career Development

FACULTY & FELLOW CAREER DEVELOPMENT

K-Club

NIH Biosketch

Gaining NIH Grant Review Experience

Guidelines for Crafting a Successful Research Protocol

Career Development Consultation Program

Finding a Mentor

Finding a Collaborator

Career Development Programs at Emory

Early Stage and Early Established Investigators

K-Club

The Pediatric K-Club was established in the fall of 2009. The objective of this program is to provide an educational forum to assist fellows and faculty with developing successful career development award applications. With support from the [Emory Department of Pediatrics](#) and [Children's Healthcare of Atlanta](#) and our co-sponsors the [Emory Department of Medicine](#), the [Georgia Clinical & Translational Science Alliance \(Georgia CTSA\)](#), and [CFAR](#), monthly lunchtime seminars on the second Monday of each month are held during the academic year. Various topics pertaining to the conception, development, submission, and post-award process related to career development awards are addressed. The format of meetings consists of an introductory presentation, followed by a panel or group discussion, with input and active participation by attendees. Sessions are carefully designed to convey valuable information and support a lively discussion among invited speakers and attendees.

The K-Club thrives on the support of faculty contributors and young investigator participants. Sessions are open to all with an interest in acquiring funding for research via career development awards and other related funding mechanisms. Typical attendance includes on average 80 faculty, fellows and other interested research staff.

TOPICS

QUICK FACTS

VIDEOS & SLIDES

Navigating the NIH and Extramural Research Funding

- Funding Opportunity Announcements (FOA's): Formulating & Organizing Grant Applications
- Navigating the NIH
- NIH Study Sections & Review Processes
- Inside Look at Study Sections & the Scientific Review Process
- Revisions and Summary Statements
- The Non-Ks of K-Club: Non-NIH Career Development Funding Mechanisms

Grant Application Resources

Grant Application Resources

We have many grant application resources to help you with your applications. Once you are ready to submit your application, check out the [Getting Started page](#) to view Intent to Submit forms.

GENERAL RESOURCE ASSISTANCE



BOILERPLATE DOCUMENTS AND APPLICATION LIBRARY



PEDIATRIC BIostatistical CORE



GRANT EDITING CORE (GEMS)



CAREER DEVELOPMENT-SPECIFIC RESOURCES



NIH BIOSKETCH



EARLY STAGE & EARLY ESTABLISHED INVESTIGATORS



Research IT Resources

RESEARCH IT RESOURCES

Electronic Research Systems & Programs

Big Data Resources & Tools

Research IT Information & Exchange Series

From the Research IT Toolbox

RESEARCH

Centers



Cores



Research Resources



Research IT Resources

Research IT resources includes tools and electronic infrastructure to facilitate high quality research.

The Pediatric Research Alliance works at the intersection of multiple institutions in Atlanta. While this affords a number of resources for use by researchers, navigating and accessing resources between institutions, or choosing between duplicated items, can be confusing. This section guides child health-related researchers in navigating the options, while exposing them to the wide selection of options.

ELECTRONIC RESEARCH SYSTEMS & PROGRAMS



BIG DATA RESOURCES & TOOLS



COMPUTER PROGRAMS & SERVICES



SPONSORED ACCOUNTS



INFORMATION & EXCHANGE SERIES ARCHIVE



Clinical Research Resources (and more)

CLINICAL RESEARCH RESOURCES
Research Coordinator Resources
Regulatory and Compliance
Institution Fact Sheets and Rates
Research at Hughes Spalding
Electronic Clinical Research Systems

CLINICAL RESEARCH COMPLIANCE
CONFLICT OF INTEREST (COI)
INVESTIGATIONAL NEW DRUG (IND) APPLICATION GUIDANCE
INSTITUTIONAL REVIEW BOARD (IRB)
REGULATORY GUIDANCE

Institution Fact Sheets and Rates

	Emory	CHOA
Federal Tax ID (EIN)	58-0566256	58-2367819
DUNS #	066469933	073472136
Federal Wide Assurance #	00005792	00000644
Congressional District	GA 005	GA 005
DHS Assurance #	A3190-01	n/a

Presentation, Poster and Publication

Presentation, Poster and Publication Guidelines

POWERPOINT TEMPLATES	+
POSTER GUIDELINES	+
AUTHOR AFFILIATION GUIDELINES	+
ACKNOWLEDGING CORES	+

Lab Pages

EMORY • Children's • GR
Pediatric Research Alliance

Mainou Laboratory

[Home](#) [Back to Main](#)

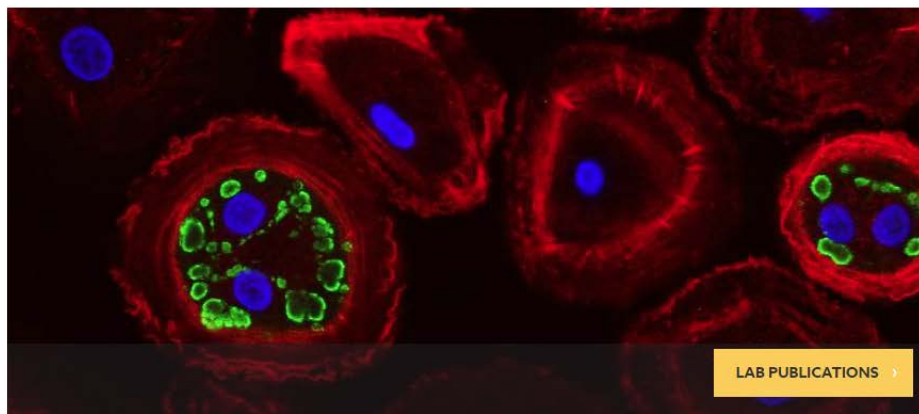


Dr. Bernardo Mainou
Assistant Professor
Department of Pediatrics

Contact Information

Dr. Bernardo Mainou
Assistant Professor
Department of Pediatrics

ECC 564
2015 Uppergate Dr. NE
Atlanta, GA 30322
404-727-1605
bernardo.mainou@emory.edu



RESEARCH PROJECTS

GROUP MEMBERS

PUBLICATIONS

Our laboratory is interested in identifying viral and cellular factors that mediate reovirus infection. Mammalian reovirus is a nonenveloped, dsRNA virus isolated from respiratory secretions and stool of children. Although most humans are seropositive by age five, reovirus rarely causes disease. Due to its preference for epithelial cells, reovirus is currently in Phase I-III clinical trials to test its efficacy as viral oncolytic agent for various types of cancer. Our current focus is on understanding how reovirus uses bacteria and other host factors to infect cells in the gut and genetically engineering reovirus as a viral oncolytic with enhanced infectivity for cancer cells.

Focus 1. To identify how reovirus infection of eukaryotic cells is altered by bacterial components.

Efficient reovirus infection of the gut requires the presence of bacteria, but how bacteria promote infection is not known. We are investigating how bacteria or specific bacterial membrane components interact with reovirus to convey enhanced infectivity of eukaryotic cells. We are working to assess whether this interaction affects virion stability, engagement of cell-surface receptors, uptake

Email Karen to start yours!

Faculty Directory

QUICK LINKS ▼ ♥ Give ✉ Contact 🔍

EMORY [®] Children's [®]  Pediatric Research Alliance

RESEARCH PEOPLE NEWS & EVENTS ABOUT US

🏠 [People](#) > [Center for Cystic Fibrosis and Airways Disease Research \(CF-AIR\)](#)

Faculty Directory / Center for Cystic Fibrosis and Airways Disease Research (CF-AIR)

Search by name or keyword 🔍

Browse by Area of Research ▼

Browse by Center ▼

Primary Faculty | [Affiliated Faculty](#)

Primary Faculty

NAME	POSITION(S)	CONTACT	
Timothy Beaty, MD, MSc	Assistant Professor Emory University School of Medicine Department of Pediatrics Division of Pulmonology, Allergy/Immunology, Cystic Fibrosis, and Sleep	p: 404-600-2786 e: tbeaty2@emory.edu	
Lou Ann S. Brown, PhD	Professor Department of Pediatrics Emory University School of Medicine Goddard Neonatology Scholar Scientific Director - Emory Alcohol and Lung Biology Center Associate Director for NIAAA-Funded T32 Department of Pediatrics	p: 404-727-5739 e: lbrow03@emory.edu	

Faculty Profiles

QUICK LINKS Give Contact Search

EMORY • Children's •  Pediatric Research Alliance

RESEARCH PEOPLE NEWS & EVENTS ABOUT US

Home > People > Faculty > Nael A. McCarty, PhD

Faculty Directory

Search by name or keyword Search

Browse by Area of Research Dropdown

Browse by Center Dropdown

Email Karen
to update!

A B C D E F G H I J K L M N O P Q R S T V W X Y Z

VIEW ALL →

Nael A. McCarty, PhD



Marcus Professor of Cystic Fibrosis
Professor and Senior Cystic Fibrosis Scientist
Division of Pulmonology, Allergy/Immunology,
Cystic Fibrosis, and Sleep
Department of Pediatrics
Director, Center for Cystic Fibrosis Research
Director, Emory+Children's CF Center of

Research

In the McCarty lab, we focus on the molecular physiology of ion channels and receptors, with emphasis on epithelial chloride channels. Our specific focus is the pathophysiology of Cystic Fibrosis, including the structure/function of CFTR and its many roles in the airway. We pioneered the use of peptide toxins as probes of chloride channels. We also have projects that study the functional consequences of heterodimerization among GPCRs, the role of CFTR in regulation of sweat composition, and the molecular ecology of predator-prey interactions in the marine environment. Our translational research in CF targets: (a) the mechanism by which the expression of mutant CFTR in airway epithelial cells impacts the development of CF-related diabetes; and (b) identification of biomarkers of acute pulmonary exacerbations in CF along with development of a novel device for their detection in the home.

The goal of the Center for Cystic Fibrosis Research is to engage Atlanta researchers in basic and translational research that will lead to a better understanding of the pathophysiology of this disease and/or generate new devices and treatments to increase the length and quality of life for CF patients. The novel theme for these research activities is 'The Systems Biology of the CF Lung'.

Connect

- Visit www.pedsresearch.org
- Listserv
 - CF-AIR
 - CF-AIR trainees
 - Pediatric Research
- Social Media
 - @ATLpedsresearch on Twitter
 - <https://www.facebook.com/ATLpedsresearch>
 - CF-AIR specific – coming soon
- Questions: email at kmurra5@emory.edu



What do you
need to succeed?

CENTER FOR CYSTIC FIBROSIS AND AIRWAYS DISEASE RESEARCH (CF-AIR)

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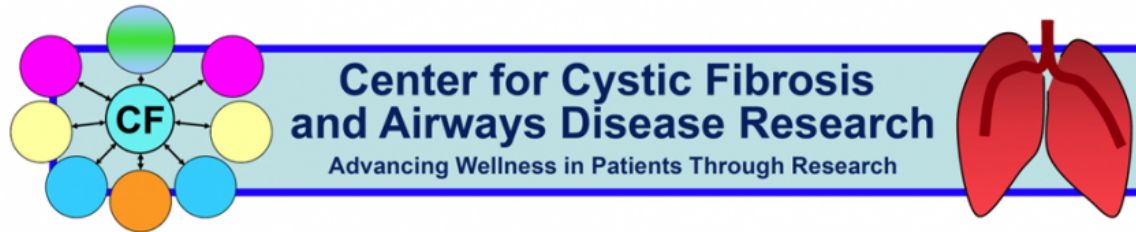
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www.pedsresearch.org/research/centers/cf-air