Hematology/Oncology Fellowship Program

EMORY UNIVERSITY

Aflac
Cancer & Blood Disorders Center
CHILDREN'S HEALTHCARE OF ATLANTA

At the Aflac Cancer and Blood Disorders Center of Children's Healthcare of Atlanta, we offer three-year fellowships in collaboration with Emory University School of Medicine to qualified, promising physicians. We are dedicated to providing a comprehensive program for training subspecialty fellows in pediatric hematology/oncology.

Our goal

Our goal is to train academically oriented hematologists and oncologists who will be involved in a lifetime of excellence in patient care and teaching, in addition to clinical, translational or basic research. Upon successful completion of our training program, fellows will:

- Have a thorough understanding of the pathophysiology of pediatric hematologic and oncologic disorders.
- Be competent in the clinical diagnosis and management of these disorders.
- Understand clinical trials methodology.
- Have excellence in a selected research interest. Our program seeks to cultivate and encourage laboratory researchers and clinical investigators.

One of the largest pediatric hematology/oncology fellowship programs in the country

about the program

First-year fellows spend the majority of their time in clinical rotations. Second- and third-year fellows primarily spend their time in various research and educational activities. Additionally, each fellow maintains a continuity clinic one day each week for the entire three years.

Clinical rotations—first year

- Inpatient hematology/oncology ward service (three months)
- Blood and marrow transplant (BMT)—inpatient/outpatient service (two months)
- Clinic/consult (two months)
- Outpatient hematology service (two months)
- Neuro-oncology—inpatient/outpatient service (one month)
- Lab rotation—radiation oncology, hematopathology, flow cytometry, cytogenetics, blood banking and special coagulation (one month total, divided into two-week blocks)
- Research exploration (one month total, divided into two-week blocks)

Research—second and third year

Second- and third-year fellows are offered a variety of opportunities in clinical, translational and basic research. These opportunities are available at the Aflac Cancer Center and within specific divisions of the Emory University School of Medicine Department of Pediatrics.

We are devoted to training physician-scientists seeking careers in laboratory-based academic pediatric hematology/oncology. Research opportunities are performed in collaboration with faculty at the Winship Cancer Institute of Emory University, the Emory School of Public Health, the Yerkes National Primate Research Center, and the Centers for Disease Control and Prevention (CDC).

In addition to the laboratory-based research track, we offer a clinical research track for fellows interested in careers as clinical investigators. Formal training in clinical research can be obtained through early involvement in several ongoing clinical trials within the institution. Fellows interested in clinical research are encouraged to apply for Emory's Master of Science in Clinical Research (MSCR) program. We are in a unique position to offer special resources for laboratory and clinical training, such as the MSCR program, for the entire fellowship period and for extended periods of research time, if required.

We have an individualized scholarship oversight/mentoring committee for each fellow to guide him through his fellowship research experience.

Research—optional fourth year

The fourth year is almost exclusively devoted to research and is available with funding to all fellows. This allows fellows to increase their skills for competitiveness in garnering future K-type or other awards for young investigators.

On-call schedule

Night call takes place from home. Fellows occasionally return to the hospital to evaluate extremely ill or newly diagnosed patients:

- First year: 53 weekday nights and 12 weekends (one/month)
- Second year: 46 weekday nights and eight weekends
- Third year: Four weekday nights and six weekends

Didactic schedule

A variety of conferences and seminars are offered. A sample schedule is listed below. Additionally, structured teaching, ethics and research overview courses are offered throughout the year.

	Monday	Tuesday	Wednesday	Thursday	Friday
A.M.	Division conference	Core curriculum review	Grand rounds		Patient care conference
P.M.			Tumor board	Research conference	

Additional benefits of the program

Fellows receive three weeks of vacation each year. Each fellow has an educational stipend, which may be used for meetings, journals or other educational expenses. Senior fellows attend additional scientific meetings based on research presentations.

Accreditation

First accredited in the 1980s, the fellowship program in 2004 received full accreditation by the Accreditation Council for Graduate Medical Education (ACGME). The Aflac Cancer Center is affiliated with the Emory University School of Medicine, which is ranked among the top research medical schools in the country by *U.S. News & World Report*.

Funding

Fellows are fully funded throughout the three-year program. Additional years of research training, including application for the MSCR program, are available for qualified candidates.

Current fellows

First-year fellows

Ashley Lanzel, M.D.

ashley.lanzel@choa.org

College: University of Georgia

Medical school: Medical College of Georgia

Residency: Johns Hopkins University

"Emory is a stand out program in my mind. It provides excellent clinical care to a large patient population with hematologic and oncologic maladies. The research possibilities are vast, from basic science, to clinical trials, to collaborations with other institutions, including Georgia Tech and the CDC. The opportunities are endless and the team is incredibly friendly, not to mention supportive."

Lane Miller, M.D.

lane.miller@choa.org

College: Emory University

Medical school: Medical College of Georgia

Residency: Oregon Health & Science University

"The fellowship here at Emory was highly attractive to me for a number of reasons: the two-hospital system, the breadth of research options and mentors and the sheer exposure to such a wide variety of pathology amongst an equally diverse population. I should also mention how impressed I was and am with the collegial, friendly, humble, and brilliant personalities I have encountered here. This is truly a wonderful learning environment well established to allow fellows to thrive."

Ryan Summers, M.D.

ryan.summers@choa.org

College: University of Georgia

Medical school: Emory University

Residency: Emory University

"We have a fantastic group of faculty who are invested in developing our careers as both clinicians and academicians. I love the diversity of the patient population and the equal strength in both hematology and oncology."

Karen Zimowski, M.D.

karen.zimowski@choa.org

College: Clemson University

Medical school: Medical College of Georgia

Residency: Johns Hopkins University

"Emory's Hematology/Oncology program is unique in that it is truly strong both in hematology and oncology. Atlanta has a large and diverse population and a busy service, which provides broad exposure to a multitude of disease processes and practice styles. While there are ample research opportunities within the department itself, Emory's research connections spread beyond to places like the Winship Cancer Institute, Georgia Tech and the CDC. I am confident that I will end the fellowship well-trained and ready to start my career."

Second-year fellows

Marcus Carden, M.D.

marcus.carden@choa.org

College: University of North Carolina

Medical school: Brody School of Medicine/East Carolina University

Residency: Virginia Commonwealth University

Current research: Utilizing bioengineering and nanotechnology to study the pathological basis of sickle cell disease

"I was attracted to the fellowship program because of its equal emphasis on providing excellent training for those interested in both hematology and oncology. The program's two-hospital system is a unique benefit that exposes trainees to an array of common and uncommon hematological and oncological disorders with both common and uncommon presentations."

Jim Felker, M.D.

james.felker@choa.org

College: Cornell University

Medical school: New York Medical College

Residency: Northwestern University/Lurie Children's Hospital

Current research: Developing a brain tumor slice model for rapid drug testing and development

"I chose this program because it offered the greatest balance of a busy clinical program where I could learn about all facets of hematology/oncology through experiential learning, while having the resources and tools to help train me to be competitive in academic medicine."

Sarah Mitchell, M.D.

sarah.mitchell2@choa.org

College: St. Olaf College

Medical school: Creighton University

Residency: University of Minnesota/Amplatz Children's Hospital

Current research: Developing a 3-D, in vitro model of the medulloblastoma perivascular niche using an endothelialized microfluidic system with plan to investigate vascular niche factors involved in modulation of the cancer stem cell phenotype

"Everyone I have encountered at Emory and Children's has been extremely friendly and helpful. We have and amazing group of nurse practitioners who are excellent teachers. The service is busy and has a very diverse patient population, providing exceptional training in all aspects of hematology/oncology."

Patricia Zerra, M.D.

patricia.zerra@choa.org

College: Connecticut College

Medical school: Jefferson Medical College

Residency: University of Miami/Jackson Memorial

Current research: Understanding the role of CD4 T cells and marginal zone B cells in the immune response against incompatible blood, and formation of inhibitors in hemophilia A

"I chose this program because it was a medium- to large-sized program, and I felt that it truly had a good mix of both hematology and oncology exposure that would help me decide what path I want to take. Most importantly, everyone was extremely inviting and friendly. I felt very comfortable on my interview day and knew it would be a good environment for me to learn."

Third-year fellows

Katie Metrock, M.D.

laura.williamson@choa.org

College: The University of North Georgia

Medical school: Medical College of Georgia

Residency: Emory University

Current research: Role of STAT3 inhibition in medulloblastoma

"I completed my residency at Emory and know from experience that this program provides outstanding training in every facet. There is exposure to all aspects of hematology and oncology, a strong emphasis on both patient care and research and a true team atmosphere."

Sunil Raikar, M.D.

sunil.raikar@choa.org

College: University of Missouri

Medical school: Saint Louis University

Residency: Saint Louis University

Current research: Development of novel chimeric antigen receptor (CAR) natural killer cells against T-cell malignancies

"I think the training here at Emory provides a great balance between hematology and oncology, while serving a large, diverse population. That, combined with the excellent potential research opportunities, is what really appealed to me."

Katie Sutton, M.D.

kathryn.sutton@choa.org

College: University of North Carolina

Medical school: University of Virginia

Residency: Oregon Health & Science University

Current research: Development of drug-resistant CAR T cells against neuroblastoma

"I chose Emory because it serves a large patient population with a variety of hematologic and oncologic conditions, providing for a vast array of clinical experience during fellowship. I also appreciated a strong collegiality amongst the fellows and faculty, and the fellows' educational and service experience appeared well balanced."

Sarah Tehseen, M.D.

sarah.tehseen@choa.org

College: Khanewal Public College

Medical school: Aga Khan University

Residency: Children's Hospital of Michigan

Current research: Factors contributing to nephropathy in sickle cell patients, specifically evaluating the protective effects of hydroxyurea

"I chose Emory because I know that this program is well rounded and provides excellent exposure to a wide variety of both hematological and oncological problems. I love the city and am having a wonderful experience."

our center

Aflac Cancer and Blood Disorders Center

As one of the leading pediatric cancer, hematology and BMT programs in the country, the Aflac Cancer Center provides advanced diagnostic and clinical care, educational programs, psychosocial support, and innovative treatment and research options for children and young adults. In addition, we offer exceptional pediatric imaging, surgical subspecialty and subspecialty support.

Our multidisciplinary approach to care integrates the efforts of many pediatric professionals, including a 33-member family support team composed of:

- Nurses
- Pharmacists
- Nurse practitioners
- Nutritionists
- Utilization review specialists
- Child life specialists
- Social workers
- Financial coordinators
- Psychologists
- Music therapist
- Chaplains
- Hospital teachers

Population served

As one of the largest childhood cancer and blood disorders centers in the country, the Aflac Cancer Center cares for more than 400 newly diagnosed cancer patients each year and follows more than 2,500 patients with sickle cell disease, hemophilia and other blood disorders. In addition, we have performed more than 1,000 BMTs since our program's inception and follow more than 1,500 survivors through our Cancer Survivorship Program.

Facility features

The Aflac Cancer Center features:

- 54 inpatient beds across the Egleston and Scottish Rite hospital campuses
- 10 specially designed rooms for BMTs
- Outpatient clinics with a full range of infusional services
- Onsite diagnostics, marrow processing laboratory, surgical oncology and pharmacy services
- An MIBG treatment room

Dual-campus model

The Aflac Cancer Center offers a unique learning experience for fellows, providing rotations through our two hospital campuses—Egleston and Scottish Rite. Our dual-campus model allows fellows to interact with colleagues in both private and academic settings, affording them a real-world training experience. Additionally, our model contributes to some of the country's largest pediatric patient volumes, exposing fellows to more educational cases and greater research opportunities.

While physical locations may be different, our units operate under the same clinical practice standards and use the same electronic medical records, allowing consistency across the two campuses. Video conferencing also effectively links both campuses for meetings. Fellows will be on-service and on-call at one campus at a time to alleviate travel between campuses.

"The two-campus model provides more depth to the fellows' clinical experience. I feel that our learning is enhanced by exposure to the academic and private practice settings."

–Jonathan Metts, M.D.

research

In conjunction with the Emory University School of Medicine and the Winship Cancer Institute at Emory, the Aflac Cancer Center is committed to excellence and innovation in pediatric cancer and blood disorders research. Our rapidly growing research program includes physicians and Ph.D.s in the following fields of study: BMT, brain tumors, cancer survivorship, leukemia/lymphoma, solid tumors, hemostasis/thrombosis, sickle cell disease, gene therapy and transfusion medicine.

- Our program conducts innovative laboratory research that focuses on gene therapy, molecular therapy, cell signaling, nanomedicine and genomics.
- We received a $9.5 million grant from the National Heart Lung and Blood Institute for bench-to-bedside research to develop treatments that could stem or stop acute chest syndrome in sickle cell disease patients—a major cause of mortality among those with sickle cell disease.
- We received a $1 million, four-year Exceptional, Unconventional Research Enabling Knowledge Acceleration (EUREKA) grant, and our researchers and engineers are looking at a novel bioengineering solution aimed at pediatric brain tumors that could someday help eradicate almost any kind of tumor.
- As one of the first established National Institutes of Health (NIH) K12- and K30-sponsored clinical research training facilities (MSCR), Emory University School of Medicine is part of the Clinical and Translational Science Award (CTSA) granted from the NIH.
- Our patients have access to more than 300 clinical studies, affording them access to some of the most novel treatment options in the country.
- We rank among the top five institutions nationally for clinical trial enrollment for Children's Oncology Group (COG) studies.*
- We have 14 faculty members who are current or former COG study chairs or disease committee members, ensuring state-of-the-art care as well as committee opportunities for graduating fellows.
- We are members of the NIH clinical trials network for hemostasis, transfusion medicine and sickle cell disease.
- Through a robust Innovative Therapy Program, we offer clinical trials related to a number of different cancers and blood disorders.
- We are one of only 21 centers nationwide that is a member of the COG Phase I and Pilot Consortium.
- The program also offers enrollment in exclusive Phase I and Phase II studies for neuroblastoma and other cancers through our participation in collaborative research consortia such as Therapeutic Advances in Childhood Leukemia (TACL), Pediatric Oncology Experimental Therapeutics Investigator's Consortium (POETIC) and New Approaches to Neuroblastoma Therapy (NANT).

One of the largest pediatric clinical trial programs in the country*

2014 statistics:

- New cancer cases: 421
- Active sickle cell disease patients: 1,735
- Hemostasis and thrombosis cases: 500
- Blood and marrow transplant cases: 74
- Outpatient visits: 29,093
- Inpatient days: 17,704

** COG Institutional Report Card*

our team and interests

Leadership

Division Director

Douglas K. Graham, M.D., Ph.D.

Professor and Director, Aflac Cancer and Blood Disorders Center

Children's Healthcare of Atlanta

Douglas Graham, M.D., Ph.D. was recently appointed as Director, Aflac Cancer Center. Dr. Graham previously served as professor of pediatrics and immunology at the University of Colorado, with clinical practice at Children's Hospital Colorado. While at Children's Hospital Colorado, Dr. Graham:

- Lead the Biology and Treatment of Childhood Cancer Research Emphasis Area, where he directly oversaw all basic science, translational and clinical oncology research.
- Served as the co-program leader of the Hematologic Malignancy Program at the University of Colorado, a National Cancer Institute-designated cancer center.

Dr. Graham is a National Institutes of Health-funded (NIH) investigator with an active laboratory focusing on developing novel therapeutics for pediatric cancer, recently validating MerTK as a novel cancer agent in leukemia, melanoma, non-small cell lung cancer and glioblastoma. He has served in multiple leadership roles with the American Society of Pediatric Hematology/Oncology and has an appointment as a full member of the NIH Molecular and Cellular Hematology Study Section.

Fellowship program

Michael A. Briones, D.O.

Director, Fellowship Program

Aflac Cancer and Blood Disorders Center

Children's Healthcare of Atlanta

Assistant Professor of Pediatrics

Emory University School of Medicine

Glen Lew, M.D.

Associate Director, Fellowship Program

Aflac Cancer and Blood Disorders Center

Children's Healthcare of Atlanta

Associate Professor of Pediatrics

Emory University School of Medicine

Blood and marrow transplant (BMT)

Shanmuganathan Chandrakasan, M.D.: Hematopoietic cell transplant/gene therapy for immune deficiency, immune deficiency, immune dysregulation and HLH, immunohematology and bone marrow failure, stem cell biology

Kuang-Yueh (Ky) Chiang, M.D., Ph.D.: Clinical trials in BMT, stem cell biology and growth factor mobilization

Ann E. Haight, M.D., Medical Director of BMT: BMT in sickle cell disease and other nonmalignant diseases, supportive care in BMT and infections in the immunocompromised host, and clinical research ethics

John Horan, M.D.: Non-myeloablative transplant for sickle cell disease, graft versus host disease and outcomes research

Lakshmanan Krishnamurti, M.D., Director of BMT: Newborn screening and counseling for hemoglobinopathies; novel approaches to hematopoietic stem cell transplantation for hemoglobinopathies; mechanisms of vascular complications of sickle cell disease; bioinformatics systems in clinical care and research in sickle cell disease

Muna Qayed, M.D., M.S.C.R.: Incorporation of novel agents into the treatment of relapsed solid tumors, improving current treatments for patients with high-risk disease including autologous stem cell transplant and developing more effective prophylaxis/treatment against GVHD in patients undergoing allogeneic BMT

Elizabeth O. Stenger, M.D.: BMT for nonmalignant disease, tolerance and GVHD prevention/treatment

Hematology

General hematology

Staci Arnold, M.D.: Health outcomes, cost benefit analysis, comparative effectiveness research for sickle cell disease and bone marrow failure syndromes

Jeanne M. Boudreaux, M.D., Clinical Director of Hematology: Thalassemias, bone marrow failure syndromes, hemolytic anemias and white cell disorders

Michael A. Briones, D.O.: General hematology, histiocytic disorders and bone marrow failure syndromes

Satheesh Chonat, M.D.: Red cell enzyme and red membrane deficiencies

Marianne E. Yee, M.D., M.Sc.: Clinical research in sickle cell disease, hemoglobin disorders, transfusion therapy and BMT for patients with sickle cell disease

Hemophilia/thrombosis

Carolyn M. Bennett, M.D.: Platelet disorders including immune thrombocytopenic purpura (ITP)

Christine L. Kempton, M.D.: Clinical trials in hemophilia with an emphasis on inhibitors

Shannon L. Meeks, M.D.: Basic and translational research in hemophilia A and inhibitors

Kavita Patel, M.D.: Thrombosis treatment and prevention

Robert Sidonio Jr., M.D., Clinical Director of Hemostasis/Thrombosis: von Willebrand disease, particularly in the setting of menorrhagia

Sickle cell disease

Olufolake Adisa, M.D.: Translational research in sickle cell disease with primary focus on heme degradation, cytoprotective mechanisms and pulmonary complications of sickle cell disease

R. Clark Brown, M.D., Ph.D.: Targeted therapies for thalassemia and sickle cell disease

Carlton D. Dampier, M.D.: Clinical trials in sickle cell disease, measurement science of patient- and parent-reported outcomes and symptom management in sickle cell disease, particularly pain

Anne G. James-Herry, M.D.: Clinical trials in sickle cell disease; comprehensive sickle cell disease; and specialty clinics, particularly pulmonary and GI- and age-based clinics

Clinton H. Joiner, M.D., Ph.D., Director of Hematology: Red cell physiology, specifically cation transport and volume regulation and their perturbation in sickle cell disease

Peter A. Lane, M.D.: Newborn screening, health outcomes and clinical trials in sickle cell disease

Tamara N. New, M.D.: Clinical trials in sickle cell disease, interest in chronic pain, pulmonary complications and global impact of sickle cell in economically poor countries

Maa-Ohui Quarmyne, MbChB.: Sickle cell disease and thalassemias, stroke prevention in sickle cell disease and outcomes in sickle cell disease

Transfusion medicine

Cassandra D. Josephson, M.D.: Clinical transfusion medicine and blood safety in hemophilia, sickle cell disease, neonatology and open heart surgery

Oncology

Leukemia/lymphoma

D. John Bergsagel, M.D.: Clinical trials in leukemia and lymphoma

Sharon Castellino, M.D., Director of Leukemia and Lymphoma: Hodgkin lymphoma and survivorship

Marla Daves, M.D., M.S.H.I.: Applying informatic tools to improve guideline adherence in pediatrics and the development of clinical research databases to improve the secondary use of clinical data for research

Frank G. Keller, M.D., Clinical Director of Leukemia: PI of COG trial for low-risk Hodgkin's disease and clinical trials in Hodgkin's disease, non-Hodgkin's lymphoma (NHL) and leukemia

Glen Lew, M.D.: Study chair of COG Phase III trial for relapsed acute lymphoblastic leukemia (ALL); etiology, treatment and outcomes in childhood ALL

Melinda Pauly, M.D.: Relationship of the BCL-2 family of proteins within the intrinsic apoptotic pathway to members of the autophagy pathway

Himalee Sabnis, M.D., M.S.: Biology of acute myeloid leukemia (AML), signaling pathways in leukemic cells and new therapeutic agents in AML

William G. Woods, M.D.: Clinical trials within COG in myeloid leukemia

Solid tumors

Thomas Cash, M.D., M.Sc.: Outcomes and epidemiology in rare pediatric tumors; the role of ezrin and tumor necrosis in patients with Ewing Sarcoma; innovative therapy and Phase I/II trials

Bradley A. George, M.D.: Solid tumors and histiocytosis

Kelly Goldsmith, M.D.: Basic and translational research of neuroblastoma, with a primary focus on mechanisms of therapy resistance

Thomas A. Olson, M.D., Clinical Director of Solid Tumors: Committee chair for COG germ cell disease, clinical trials in germ cell tumors, retinoblastoma and bone tumors

Louis B. Rapkin, M.D.: Rare tumors, clinical trials in solid tumors and the development of educational curriculum for house staff and fellows

Karen Wasilewski-Masker, M.D., M.Sc.: Bone sarcomas; adolescent/young adult oncology; supportive care/cancer control studies; transition of care

Neuro-oncology

Dolly Aguilera, M.D.: Development of Phase I and Phase II clinical trials for children with recurrent brain tumors

Robert C. Castellino, M.D.: Pediatric neuro-oncology, interactions between p53/Hedgehog/and PI-3 Kinase cell signaling in neuronal development, brain tumor development or progression, and as targets for drug development

Anna J. Janss, M.D., Ph.D.: Phase I clinical trials (COG) and innovative therapeutics for brain tumors

Tobey J. MacDonald, M.D., Director of Neuro-oncology: Basic and translational research of childhood brain tumors with a primary research focus on the metastasis and role of platelet-derived growth factor receptor (PDGFR) signaling

Claire M. Mazewski, M.D.: PI of COG high-risk medulloblastoma trial for young children, clinical trials, innovative therapeutics and late effects studies for children with brain tumors

Cynthia Wetmore, M.D., Ph.D., Director of Developmental Therapeutics: Clinical research in developmental therapeutics for pediatric oncology and neuro-oncology; design and conduct of Phase I/II clinical studies; translation of basic science discoveries to improving clinical care of patients

Junior faculty

Nitya Bakshi, M.D.: Pain in sickle cell disease including psychophysical pain phenotyping in pediatric patients with sickle cell disease and development and validation of electronic pain diaries for children with sickle cell disease

Glaivy Batsuli, M.D.: Characterizing Factor VIII inhibitor formation, specifically the development and immunologic role of antibodies to the C1 domain of Factor VIII

Jonathan Metts, M.D.: Role of transcription factor STAT5 in acute myeloid leukemia and other malignancies, specifically interrogating STAT5's gene expression profile in order to identify potential therapeutic targets

Katherine Minson, M.D.: Novel therapeutic targets in AML

Joanna Newton, M.D.: Racial and ethnic disparities in pediatric AML outcomes; expression of CD36 and the presence of cytoplasmic granules in blasts predicts poor prognosis in children with B-lymphoblastic leukemia

David Siegel, M.D., M.P.H.: Late effects of pediatric cancer treatment, specifically evaluating late effects related to radiation therapy

Psychology and neuropsychology

Grace Fong, Ph.D.: Acquired brain injury and clinical trials for late effects

Jordan Gilleland, Ph.D.: Childhood cancer survivorship and transition to adult care

Lisa Ingerski, Ph.D.: Child psychology

Alcuin Johnson, Ph.D.: Acquired brain injury, transition to adult care and motivational interviewing

Laura Mee, Ph.D.: Parent coping, parent training and quality of life

Soumitri Sil, Ph.D.: Acute and chronic pain management

Beth Thompson, Psy.D.: Pain management, pica and coping with chronic illness

Cancer survivorship

Lillian R. Meacham, M.D., Clinical Director of Survivorship: Childhood Cancer Survivor Study (CCSS), educating survivors and providers about survivor care, and endocrine late effects in oncology patients

Ann C. Mertens, Ph.D., Research Director of Survivorship: Childhood and adolescent cancer survivorship

Briana C. Patterson, M.D.: Late effects of cancer therapy in brain tumor patients and endocrine problems following cancer treatment

Karen Wasilewski-Masker, M.D., M.Sc.: Outcomes/cancer survivor research and transition of care

Lab research/developmental therapeutics

David R. Archer, Ph.D.: Hematopoietic stem cell transplant for genetic disease, particularly sickle cell disease and use of stem cells in regenerative medicine

Vaughn Barry, Ph.D.: Epidemiology outcomes research and epidemiologic methods; study design and analysis of blood disorders including sickle cell disease and hemophilia

Kevin D. Bunting, Ph.D., Research Director of Leukemia and Lymphoma: Studies of normal cytokine signaling in hematopoiesis and dysregulated signaling associated with inflammation and cancer

Robert C. Castellino, M.D.: Pediatric neuro-oncology, interactions between p53/Hedgehog/and PI-3 Kinase cell signaling in neuronal development, brain tumor development or progression, and as targets for drug development

Deborah DeRyckere, Ph.D.: Preclinical development of novel small molecule MerTK inhibitors for oncology applications, TAM-family receptor tyrosine signaling and biology, murine xenograft models of acute leukemia

Christopher B. Doering, Ph.D.: Development of modified blood coagulation factors and implementation in gene transfer-based therapies

Jacques Galipeau, M.D., Director of Cellular Therapeutics: Tumor immunology, biological and cellular therapies for autoimmune and alloimmune disorders, pediatric biopharmaceutical strategies for catastrophic diseases with unmet medical needs and mesenchymal stem cell research

Lubing Gu, M.D.: Molecular mechanisms of drug resistance in childhood cancer and leukemia

Delores Hambardzumyan, Ph.D.: Neuro-oncology

Anna M. Kenney, Ph.D.: How Sonic hedgehog and interacting signal transduction pathways control normal and neoplastic development within the cerebellum

Wilbur A. Lam, M.D., Ph.D.: Development and application of novel bioengineering technologies to study, diagnose and treat hematologic disorders

Renhao Li, Ph.D.: Development of novel reagents to improve bleeding diagnostics and platelet storage

Pete Lollar, M.D., Research Director of Hemostasis: Development of novel recombinant Factor VIII molecules for use in preventing and treating hemophilia patients with inhibitors and basic research in biosynthesis and expression of Factor VIII

Brian Petrich, Ph.D.: Regulation of platelet integrin signaling in hemostasis and thrombosis; cell adhesion mechanisms in vascular disease and thrombosis

Cheng-Kui Qu, M.D., Ph.D.: Cell signaling and metabolic regulation of hematopoietic stem cells focusing on the role of protein and lipid phosphatases in normal hematopoietic cell development and leukemogenesis; development of novel therapeutics for phosphatases-associated blood disorders, such as juvenile myelomonocytic leukemia

H. Trent Spencer, Ph.D., Director of Gene Therapy: Developing and implementing cell and gene therapy for the treatment of childhood cancer and inherited diseases, with a specific emphasis on the genetic engineering of hematopoietic stem cells

Zhengqi Wang, Ph.D.: Study of STAT5 and its function in signaling mechanisms in leukemogenesis, hematopoietic stem cell biology and transplant

Muxiang Zhou, M.D.: Signaling pathways and regulators of apoptosis relating to drug resistance in ALL

atlanta

Ranked among the fastest-growing metropolitan areas in the country*, Atlanta combines southern hospitality with the amenities of any world-class city. More than 5 million metro Atlanta residents enjoy the city's rich history and cultural diversity. Whether you are a sports fanatic, history buff or have a love of the arts, metro Atlanta offers something for everyone.

World-class, modern city with a rich history

Why Atlanta?

- Cost of living is less expensive than other major cities**
- Hartsfield-Jackson Atlanta International Airport is the world's busiest airport
- Atlanta is within a two-hour flight of 80 percent of the United States
- Home to more than 12 Fortune 500 companies and more than 15 Fortune 1000 companies
- Museums, theaters and eclectic shopping areas
- Professional sports teams, including the Falcons, Braves and Hawks
- Vast number of restaurant options, including a wealth of ethnic cuisines
- Seasonal climate suitable for outdoor activities nearly year-round
- Within driving distance to both the mountains and the ocean

*forbes.com
** metroatlantachamber.com

contact us

Visit aflaccancercenter.org for more information.

Email Molly Quinn at molly.quinn@emory.edu.
Email Michael Briones, D.O., at michael.briones@choa.org.

All applications are accepted through ERAS. A requirements checklist is available online.

Hughes Spalding is owned by Grady Health System® and managed by HSOC Inc., an affiliate of Children's Healthcare of Atlanta.

Some physicians and affiliated healthcare professionals on the Children's Healthcare of Atlanta team are independent providers and are not our employees.

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CHILDREN'S HEALTHCARE OF ATLANTA