Postdoctoral Research at Cincinnati Children’s Hospital Medical Center

Cincinnati Children’s Hospital Medical Center (CCHMC) is a premier pediatric research institution with over 900 diverse and productive faculty members. Here, researchers work collaboratively across specialties and divisions to address some of the biggest challenges we face today in improving child health. A strong network of research support services and facilities, along with institutional commitment to research, push our team of faculty, postdocs and support staff to explore the boundaries of what is possible, leading to significant breakthroughs. We are driven by our mission to improve child health and transform the delivery of care through fully integrated, globally recognized research, education and innovation.

Post-doctoral research fellows at Cincinnati Children’s are valued for their unique interests and strengths, and are supported by our institution’s strong programming for post-docs through the Office of Postdoctoral Affairs and the Office of Academic Affairs and Career Development. Mentoring, support for international students and an emphasis on crafting high-quality grant proposals are only a few of the features that set our program apart. Cincinnati Children’s is a respected part of the broader, and very vibrant, Cincinnati community. With a thriving arts scene, numerous festivals celebrating music and food, a passionate fan following for our college and professional sports teams, and a variety of opportunities for outdoor activities, our region is truly a great place to work and live.

Please visit our website for more information about Postdoctoral Research at CCHMC and a monthly-updated listing of postdoctoral fellowship opportunities at: https://www.cincinnatichildrens.org/education/research/postdoctoral/current-openings

To apply online go to: http://www.cincinnatichildrens.org/careers/apply/default.htm and search for the indicated requisition (job) number.

For more information, contact the Postdoc recruiter: Uma Sivaprasad, Ph.D. – research@cchmc.org

Currently Available Postdoctoral Positions

Biostatistics and Epidemiology

Research Fellow Job Number: 70508. A one year Research Fellow position is available in the Center for Molecular and Fetal Therapy to work with Dr. Foong-Yen Lim. This is a research only position to work on clinical outcome research and/or animal models of human disease. Candidates with an MD/DO/PhD with a background in epidemiology and biostatistics and a clinically focused research program are invited to apply. Strong writing skills and experience working on collaborative research projects are preferred. Contact: Anne Riestenberg (on behalf of Dr. Foong-Yen Lim, MD) Email Address: Anne.Riestenberg@cchmc.org

Research Fellow Job Number: 88336. Tesfaye Mersha’s team has an opening for a Research Fellow who will be involved in a combined applied and methodological genetics project, focused on the development and implementation of ancestry (admixture) based detection and characterization of genetic and environmental exposure risk factors in asthma. We are particularly keen to attract a candidates who already have experience and/or training in the statistical methods used in genetic and environmental exposure studies and research interests in population genetics analysis of admixed population or data simulation and imputation. Key functions: 1) performing genome-wide admixture and association analysis, implement ancestry-environmental exposure interaction analysis, data simulation and imputation; and 2) development and testing statistical methods for admixed human datasets. Preferred Skills/Experience/Attributes: The ideal candidate will have PhD in biostatistics, statistical genetics, bioinformatics or computational biology, proficiency in statistical programming environments such as SAS, R, Java or C++, the ability to communicate statistical concepts and data analysis interpretations to the group, self-motivated, with a strong aptitude for IT applied to human genomics, excellent interpersonal skills and the ability to function effectively in a team environment. Experience in genetic analysis of environmental exposure risk factors is desired. Contact: Tesfaye B. Mersha, Ph.D. Email Address: Tesfaye.Mersha@cchmc.org

Cancer and Blood Diseases

Research Fellow Job Number: 71870. The Pan lab has an immediate opening for a Postdoctoral Fellow in the Molecular and Gene Therapy Program. The project will utilize cellular, molecular, and biochemical techniques with an emphasis on understanding the disease pathogenesis of lysosomal storage diseases especially CNS and skeletal abnormalities, as well as new approaches for gene therapy in such diseases. For more information about Dr Pan’s research program see: http://www.cincinnatichildrens.org/research/divisions/ex-hem/labs/pan/default/. Applicants with a strong background in molecular biology, immunology, and animal studies in neuroscience,
megakaryocyte/platelet biology or skeletal disease are encouraged to apply. Experience with epigenetic studies or preclinical evaluation of viral vector mediated gene transfer, FACS analysis and/or primary cell culture is a plus.

Contact: Dao Pan, PhD  
Email Address: Dao.Pan@cchmc.org

Research Fellow Job Number: 76423. A postdoctoral Research Fellow position is open in the Brain Tumor Center for individuals with an interest in neuroglial cell development and diseases. Our research areas include glial progenitor plasticity and gliogenesis, brain tumorigenesis, demyelinating and white matter diseases. For more information see: (http://www.cincinnatichildren.org/bio/l/qing-richard-lu). Candidates with a recent PhD or MD and a strong background in one or more of the following areas: molecular and cellular biology, neurobiology, cancer biology and computational biology are encouraged to apply.

Contact: Qing (Richard) Lu, PhD  
Email Address: Richard.Lu@cchmc.org

Research Fellow Job Number: 84505. A Research Fellow position is available immediately in Dr. Jianqiang Wu’s lab to study the molecular mechanisms of neurofibroma tumorigenesis in Neurofibromatosis type 1 (NF1), an inherited disease predisposing affected individuals to benign Schwann cell tumors called neurofibromas. Specifically, the candidate will focus on: 1) determining microRNAs and Runt-related transcription factor (Runx) family of genes (Runx1, 2, & 3) functions in neurofibroma formation  2) testing the therapeutic effects on neurofibroma mouse model by using specific Runx inhibitor and/or nanoparticle embedded anti-microRNA peptide nucleic acids. Candidate is expected to be both a collaborative team-player and capable of working independently with minimal guidance. Candidates with strong cancer biology and molecular biology background as well as genetic engineered mouse model experience are encouraged to apply.

Contact: Jianqiang Wu, MD, MS  
Email Address: Jianqiang.Wu@cchmc.org


Contact: Nancy Ratner, PhD  
Email Address: Nancy.Ratner@cchmc.org

Research Associate Job Number: 87466. Dr. Tanya Kalin’s laboratory in the Division of Pulmonary Biology is interested in the transcriptional regulation of carcinogenesis and fibrosis. The ultimate goal of our research program is to identify novel molecular targets relevant to treatment of human lung diseases. The current opening will include projects to elucidate the role of Fox transcription factors in carcinogenesis and lung fibrosis, using transgenic mice, cell culture, and tissues from human patients. We invite applications for a post-doctoral research fellow position (85438) from new graduates with a PhD in the biomedical sciences or, for the research associate position (85439), from candidates with a PhD and 3+ years of postdoctoral experience.

Contact: Dr. Tanya Kalin, PhD  
Email Address: Tanya.Kalin@cchmc.org

Research Fellow Job Number: 83464. Dr. Jose Cancelas' lab studies the molecular and cellular basis of hematopoiesis, with a focus on normal and pathological hematopoiesis, blood banking/transfusion medicine and B-cell acute lymphoblastic leukemia (Nayak R et al., J. Clin. Invest, 2015; Chang KH et al., Nat. Comm., 2015; Chang KH et al., Cell Rep. 2014; Taniguchi-Ishikawa et al., Nat. Comm. 2013; Chang KH et al., Blood 2012; Sengupta A et al. Blood 2012; Cancelas JA et al., Transfusion 2015; Dumont LJ et al., Transfusion 2015; Dumont LJ et al., Transfusion 2015) (http://www.hoxworth.org/research-education/research.html). We are looking for a research fellow with an interest in one or more of the following: signal transduction, hematopoietic stem cells, pluripotent stem cell based disease modeling in hematopoiesis, mouse cancer genetic models, inflammation in hematopoiesis and hierarchical organization of hematopoiesis in health and disease. The applicant should have a doctoral degree in Biology, Molecular Biology, Genetics, Immunology, or related field, and a strong interest in blood/cancer research. The applicant should also be highly self-motivated and have a track record of publications (first-authored publications in respected journals). Applicants with experience in hematology, immunology, mouse genetics, flow cytometry and/or bioinformatics analyses are a plus.

Contact: Jose A. Cancelas, MD, PhD  
Email Address: Jose.Cancelas@cchmc.org

Research Fellow Job Number: 87424. Dr. Fukun Guo’s laboratory in the Division of Experimental Hematology and Cancer Biology has an immediate opening for a Postdoctoral Fellow. The laboratory investigates the role of Rho family small GTPases in the development and function of T and B lymphocytes. For this position, there is a particular focus on targeting Rho GTPases in B lymphocyte malignancy, multiple myeloma. A Ph.D., MD, or equivalent with substantial cell and molecular biology experience is required. Ideal candidates will have experience in cancer research, cell culture, flow cytometry, immunostaining and murine xenograft models of human cancers.

Contact: Fukun Guo, PhD  
Email Address: Fukun.Guo@cchmc.org

Research Fellow Job Number: TBA. Dr. Daniel Starczynowski’s lab studies the molecular and cellular basis of hematologic malignancies, with a focus on normal hematopoietic stem cell function, immune dysregulation, acute myeloid leukemia (AML) and myelodysplastic syndromes (MDS): Fang et al., Nature Medicine (2016), Varney et al., Journal of Experimental Medicine (2015), Fang et al., Cell Reports (2014), Rhyasen et al., Cancer Cell (2013), Fang et al., Blood (2012), Rhyasen et al., Leukemia (2012) Starczynowski et al., Nature Medicine (2010); (http://www.cincinnatichildren.org/research/divisions/e/ex-hem/labs/starczynowski/default/). We are looking for a research fellow with an interest in one or more of the following: cancer genetic networks, hematopoietic stem cells, ubiquitin regulation, onco-immunology, and/or mouse cancer genetic models. However, applicants with experience in immunology are desired. The applicant should have a doctoral degree in Biology, Molecular Biology, Genetics, Immunology, or related field, and a strong interest...
in cancer research. The applicant should also be highly self-motivated and have a track record of publications (first-authored publications in respected journals).

Contact: Daniel Starczynowski, PhD  
Email Address: Daniel.Starczynowski@cchmc.org

Research Fellow Job Number: 86961. Dr. Biplab Dasgupta’s laboratory is looking for a highly motivated, self-driven and ambitious postdoctoral researcher to start this fall at Cincinnati Children’s Hospital Medical Center. Using genetically engineered mouse models and human tissue, the Dasgupta lab has been engaged in cutting-edge research to understand neural stem cell metabolism, genetic and metabolic uniqueness of glioblastoma (a type of brain tumor) subtypes, energy and nutrient sensing signaling pathways in cancer versus normal cellular counterparts and the built-in metabolic vulnerabilities of human cancer cells. We are also deeply interested to understand the mechanisms by which non-genetic factors regulate the incidence and penetrance of human cancer. We have published our work in highly visible journals. Our current study on a novel mechanism of tumorigenesis in pediatric brain tumors will be published soon in Neuro-Oncology, and studies on the bioenergetic regulation of brain tumors is under review in Nature Medicine (http://www.ncbi.nlm.nih.gov/sites/myncbi/biplab.dasgupta.1/bibliography/43932883/public/?sort=date&direction=ascending). The ideal candidate could be finishing up graduate studies or completed graduate studies with no more than one year of post-PhD research experience. Experience in molecular biology including in-depth understanding of molecular cloning, DNA, RNA and protein work and extensive cell culture is required. Some experience in mouse genetics is preferable. Background in cancer biochemistry, metabolism, signaling and genetics will be considered favorably and interest in the above fields is necessary.

Contact: Biplab Dasgupta, PhD  
Email Address: Biplab.Dasgupta@cchmc.org

Cardiovascular Research

Research Fellow Job Number: 88116. A postdoctoral Research Fellow position is available in Dr. Katherine Yutzey’s laboratory in the Division of Molecular Cardiovascular Biology. The Yutzey lab investigates molecular mechanisms of heart development and disease related to heart valves, epicardial derivatives, and muscle cells (http://www.cincinnatichildrens.org/bio/y/katherine-yutzey). Possible projects include mechanistic studies of valve development and disease, cardiac fibrosis, and cardiomyocyte proliferation/regeneration using human, mouse, porcine and avian systems. The Heart Institute at Cincinnati Children’s provides a strong training environment in cardiovascular biology with multiple investigators examining aspects of heart development and disease mechanisms. Candidates with a recent PhD and a strong background in molecular and cellular biology are encouraged to apply.

Contact: Katherine Yutzey, PhD  
Email Address: Katherine.Yutzey@cchmc.org

Research Fellow Job Number: 87671. The Blaxall lab has a long-standing interest in understanding the molecular mechanisms associated with the development and progression of heart failure. We are particularly interested in developing novel treatments for heart failure and fibrosis, and are pursuing several projects with therapeutic potential, including advanced screening, chemistry, animal models and drug development. A major focus is also to understand the pathologic processes of fibrosis in both the heart and kidney. Candidates with a strong background in signaling, molecular biology and small animal experimentation are encouraged to apply. Prior experience with cardiovascular biology is also desirable, although not required.

Dr. Blaxall’s website: https://www.cincinnatichildrens.org/research/divisions/m/mcb/labs/blaxall

Contact: Burns Blaxall, PhD  
Email Address: Burns.Blaxall@cchmc.org

Research Fellow Job Number: 86346. A Research Fellow position is available in Dr. David Cooper's laboratory in the Division of Cardiothoracic Surgery. We are seeking a highly motivated scientist who is interested in studying various forms of congenital heart diseases particularly surgical management of complex single ventricle congenital heart disease. This position will require participation in clinical outcomes research. Candidate is expected to be both a collaborative team-player and capable of working independently with minimal guidance. Strong personal accountability for results and integrity are essential. Good communication, technical and organizational skills are strongly desired. Requirements: PhD or MD or equivalent with experience in statistical analysis and scientific writing.

Contact: Uma Sivaprasad, PhD (on behalf of Dr. Cooper, MD)  
Email Address: research@cchmc.org

Research Fellow Job Number: TBA. The Millay lab is interested in understanding the formation of multi-nucleated skeletal muscle, which arises from the membrane fusion between precursor cells. Specifically, our focus lies in the elucidation of the molecules and mechanisms that govern myoblast fusion. We have recently discovered a necessary component (named myomaker) of the muscle fusion machinery. Projects range from delineating the mechanisms by which this multi-pass membrane protein directs cell-cell fusion to manipulating muscle cell fusion as a strategy for in vivo cell therapy. Recent Ph.D candidates with research experience in molecular biology, cell biology, biochemistry, or developmental biology are encouraged to apply.

Contact: Douglas Millay, PhD  
Email Address: Douglas.Millay@cchmc.org

Research Fellow Job Number: TBA. Dr Jeff Molkentin’s laboratory studies the molecular mechanisms of heart and skeletal muscle disease. Major focus areas include mitochondrial-dependent mechanisms of non-apoptotic death (such as cellular necrosis), signal transduction in cardiac and skeletal muscle hypertrophy, transcriptional regulation of cardiac development, and molecular mechanisms that underlie skeletal muscle degeneration in muscular dystrophy (MD). Dr Molkentin is an HHMI investigator. For more information about projects see: http://www.cincinnatichildrens.org/research/divisions/m/mcb/labs/molkentin/default. Outstanding new Ph.D graduates with prior experience in mouse genetics & cardiomyopathy research and the desire to be competitive at the highest level are invited to apply.

Contact: Jeffrey Molkentin, PhD  
Email Address: Jeffrey.Molkentin@cchmc.org

Clinical and Translational Research

Research Associate Job Number: 87542. The Center for Clinical and Translational Science (CCTST) facilitates clinical and translational
research through an NIH grant and institutional support. This program supports a variety of services to investigators across the Academic Health Center including CCHMC, UC Health, and VA Medical Center as well as the University of Cincinnati and the greater Cincinnati metropolitan area. CCTST programs include biostatistical, study design and data management support, clinical research facilities and support for patient oriented research, pilot programs, educational programs, and a robust community engagement program. The Research Associate will coordinate efforts across multiple core functions to support research resource operations, including strategic planning. He/she will be a key representative for internal and external contacts, promoting the mission and services of the CCTST. He/ she will be responsible for continuously monitoring and evaluating the efficiency and effectiveness of service delivery methods and procedures and identify opportunities for improvement and direct the implementation of changes. We invite applications from PhD prepared candidates with experience in biomedical research with a focus on clinical and translational research and experience working with faculty and staff from a variety of disciplines.

Contact: James E. Heubi, M.D.  
Email address: James.Heubi@cchmc.org

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**Genetics, Development, and Disease**

**Research Fellow/Associate Job Number: 83620/ 86853.** The primary interest of Dr. Taosheng Huang’s laboratory is to study the molecular basis of genetic syndromes, to apply the discoveries from rare diseases to common conditions and to develop treatments for genetic diseases, with a special emphasis on mitochondrial diseases (www.cincinnatichildren.org/mitochondrial). Methodologies used include next generation sequencing to identify disease causing mutations and iPSCs and mouse models to characterize the impact of these mutations using CRISPR/Cas9 based methods. The laboratory currently has openings for a new postdoctoral research fellow as well as a research associate. For both positions we are seeking a highly motivated individual with strong background in genetics and molecular/cellular biology. A PhD degree in Genetics or Molecular/Cellular Biology or related field is required. Good scientific writing, excellent communication and technical skills are strongly desired. Previous experience in stem cell research and animal handling skill is preferred. The research associate will be expected to have a minimum of 2-3 years postdoc experience. 

Contact: Taosheng Huang, MD, PhD  
Email Address: Taosheng.Huang@cchmc.org

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**Research Fellow/Associate Job Number: TBA.** The Kalinichenko lab in the Division of Pulmonary Biology has a long-standing interest in molecular mechanisms regulating the development and injury/ repair of vascular and respiratory systems. We are interested in developing novel treatments for congenital and chronic lung diseases, and have several projects with high therapeutic potential, including ESC/ iPSC derived progenitor cells, generation of mouse models of human diseases, tissue engineering and new drug development. We are looking for candidates with a recent PhD and strong background in molecular biology, genetics, ESC/ iPSC, blastocyst complementation and embryology for postdoctoral research fellow position in newly formed Center for Lung Regenerative Medicine. Candidates with 3+ years of postdoctoral experience and similar expertise will be considered for the research associate position.

Contact: Vladimir Kalinichenko MD, PhD  
Email Address: Vladimir.Kalinichenko@cchmc.org

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**Research Fellow Job Number: TBA.** A postdoctoral research fellow position is available to study neural circuits at Cincinnati Children’s Hospital Medical Center. The Yoshida lab is interested in understanding cellular and molecular mechanisms underlying motor circuits to control locomotor and skilled movements using a variety of approaches including molecular biology, mouse genetics, trans-synaptic virus assay, optogenetics, electrophysiology, and behavior assays (http://www.cincinnatichildren.org/research/divisions/d/dev-biology/labs/yoshida/default/). Candidates with a recent PhD or MD and a strong background in molecular biology and/or neurobiology are encouraged to apply.

Contact: Yutaka Yoshida, PhD  
Email Address: Yutaka.Yoshida@cchmc.org

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**Imaging Research**

**Research Fellow/Associate Job Number: 86344/86347.** The Center for Pulmonary Imaging Research (CPIR) has an opening for either a postdoctoral Research Fellow (new graduate) or Research Associate (PhD with 3+ years postdoctoral training) to use hyperpolarized-gas and proton MRI of the respiratory system to understand regional pulmonary structure and function in children and adults with chronic respiratory diseases that range from CF to asthma to rare-lung diseases and lung-transplantation rejection (http://cpir.cchmc.org). The candidate must have an advanced graduate (PhD) or medical degree (MD) and experience with MRI pulse-sequence programming and/or hyperpolarized gases. Preferred applicants will have one or more of the following: experience with pulse-sequence programming on the Philips platform, experience with hyperpolarized-gas production and/or delivery in vivo, non-proton MR spectroscopy, and/or quantitative texture-based or feature-based image analysis. The candidate will also have excellent written, verbal, and interpersonal communication skills, strong attention to detail, strong organizational skills and an innovative approach to experimental design, the ability to synthesize information and to create and deal with new situations that involve multidisciplinary experiences with MDs and PhDs with diverse scientific backgrounds, as well as the willingness to teach others and share results openly.

Contact: Jason Woods, PhD  
Email Address: Jason.Woods@cchmc.org

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**Immunology/Inflammation**

**Research Fellow Job Number: 82258.** A bioinformatics Research Fellow position is available immediately in Dr. Marc Rothenberg’s laboratory in the division of Allergy and Immunology. The Rothenberg lab is focused on elucidating the mechanisms of allergic responses especially in mucosal tissues such as the lung and the gastrointestinal tract. The goal of the research is to identify novel pharmaceutical targets for the treatment of patients with eosiinophilic diseases including eosinophilic gastrointestinal disorders, hypereosinophilic syndromes, asthma, and food allergies. The laboratory has identified and biologically characterized several critical pathways that regulate
Allergic responses. These discoveries include eosinophil effector mechanisms and the chemokine eotaxin/CCR3 pathway. For more information see: http://www.cincinnatichildrens.org/research/divisions/a/allergy-immunology/labs/rothenberg/default/. The fellow will use NGS data and a bioinformatics strategy to study the cellular and molecular processes involved in allergic responses. A working knowledge of the immune system and preferably experience in bench science including biochemistry and molecular biology is preferable.

Contact: Marc Rothenberg, MD PhD  
Email Address: Marc.Rothenberg@cchmc.org

Research Fellow Job Number: 82598. Dr. Theresa Alenghat's laboratory has an opening for a highly motivated, creative postdoctoral research fellow with an interest in epigenetics, host-microbe interactions, and the intestine http://www.cincinnatichildrens.org/research/divisions/i/immunobiology/labs/alenghat/default/. We are studying interactions with the microbiota and molecular pathways that regulate how intestinal microbes impact mucosal and metabolic homeostasis, and chronic diseases such as inflammatory bowel disease (see Nature 2013 Dec 5; 504(7478):153-7). Recent Ph.D. candidates who are curious and passionate about scientific discovery and have expertise in molecular biology, mouse handling, and intestinal physiology/mucosal immunity are encouraged to apply. Experience with bioinformatics and/or gnotobiotics is also desirable.

Contact: Theresa Alenghat, VMD, PhD  
Email Address: Theresa.Alenghat@cchmc.org

Research Fellow/ Research Associate Job Number: 84136/84313. Dr. Sing Sing Way's laboratory in the Division of Infectious Diseases has multiple immediate opening for Research Fellows and Research Associates. The laboratory investigates the immune pathogenesis of infectious diseases and immunological basis of protective immunity. For these positions, there is a particular focus on reproductive and/or microbial immunity. For more information about Dr. Way's research, please see: http://www.cincinnatichildrens.org/bio/w/singsing-way/. Experience in cellular immunology, flow cytometry, and molecular biology is required.

Contact: Sing Sing Way, MD, PhD  
Email Address: SingSing.Way@cchmc.org

Research Fellow Job Number: 79774/79776. The Shaaban laboratory in the Division of Pediatric and Fetal Surgery examines the mechanisms of long-term immunologic tolerance to prenatally transplanted stem cells. (http://www.cincinnatichildrens.org/research/divisions/c/cfcmt/labs/shaaban/default/). Using a murine model we are examining the development of allospecific tolerance in prenatal hematopoietic chimeras. This model permits a systematic analysis of the innate and adaptive immunologic mechanisms leading to self-recognition. The Center for Fetal Cellular and Molecular Therapy is a high-energy, dynamic, and interactive environment that is interested in recruiting self-motivated individuals committed to a research career. We are seeking two postdoctoral Research Fellows with the ability to design, execute and interpret experimental results and to work collaboratively with other members of the laboratory to advance projects. Candidates must have PhD and/or MD degree with one or more degrees in immunology, biochemistry, biology, genetics, microbiology, molecular biology, or a related field. Strong communication and writing skills are desired.

Contact: Anne Riestenberg (on behalf of Dr. Aimen Shaaban, MD)  
Email Address: Anne.Riestenberg@cchmc.org

Research Fellow Job Number: 87158. Dr. Pranav Shivakumar’s Laboratory of Liver Research has an immediate opening for a postdoctoral Research Fellow in the Division of Gastroenterology, Hepatology and Nutrition to study molecular and cellular mechanisms underpinning pediatric liver diseases with special emphasis on biliary atresia, a severe and progressive cholestatic disease of infancy. Our lab utilizes a neonatal mouse model of biliary atresia to study liver immunology and disease pathogenesis to 1) dissect complement-driven molecular and cellular effectors of hepatobiliary inflammation and fibrosis and 2) understand the differential homeostatic and disease-specific regulatory roles of HSC and MSC in the hepatobiliary system. One of the prime themes of the laboratory is translational research with ongoing collaborations with Pediatric Surgeons and Physicians to promote bench-to-bedside research on human cholestatic diseases. We are seeking motivated, experienced scientists or outstanding new PhD graduates preferably with experience in one or more of the following areas: 1) liver biology and related cell function in healthy and diseased liver and a basic understanding of liver immunology, 2) proficient in molecular and cell biology techniques including Real-time PCR, western blotting, ELISA, flow cytometry analysis of surface and intracellular markers, immunofluorescence and tissue sample processing and 3) experience in vitro and preclinical models of liver disease and the ability to work with mice. The fellow will have access to mentored training and world-class research facilities. Excellent oral and written and interpersonal communication skills, strong attention to details and organizational skills, ability to work independently and collegially in a team-oriented environment are a must. The candidate should be comfortable in a fast paced research environment with considerable attention to scientific rigor and results.

Contact: Pranav Shivakumar, PhD  
Email Address: Pranav.Shivakumar@cchmc.org

Research Fellow/ Research Associate Job Number: 86124/87058. Genomic technologies (ChIP-seq, EMSA, DAPA, ATAC-seq, DNA methylation, and others) are being applied in Dr. Harley’s laboratory to reconcile genetic associations with the environmental causes of idiopathic autoimmune disorders with the goal to elucidate mechanisms initiating these pathological processes. The candidate would join a team that has uncovered unexpected and powerful associations of transcription factors with genetic loci with the goal to establish the genetic origin of the preliminary findings experimentally. The team in place has the strategic, informatic, clinical, and technical expertise to provide strong support for the candidate in addition to the other resources and personnel of the Center for Autoimmune Genomics and Etiology (CAGE) (https://www.cincinnatichildrens.org/research/divisions/a/genomics-etiology/team). The disorders with direct relevance to this position include lupus, rheumatoid arthritis, multiple sclerosis, type 1 diabetes, inflammatory bowel disease, chronic lymphocytic leukemia, and others. Training in genomic molecular laboratory methods (e.g., ChIP-seq, CRISPR-Cas9, EMSA, DAPA, etc.) is strongly preferred. Candidates who have demonstrated scholarly productivity by discovery and publication will also be preferred.

Contact: John Harley, MD, PhD  
Email Address: John.Harley@cchmc.org

Research Fellow Job Number: 86691/87901. Two postdoctoral positions are available in the laboratory of Dr. Shekhar Gandhi in the Division of Gastroenterology, Hepatology and Nutrition, Cincinnati Children’s Hospital Medical Center, Cincinnati, Ohio. The applicant
should have PhD in Biological Sciences with experience in immunobiology, cell biology/molecular biology, and isolation and culture of cells from mouse/rat organs (preferably the liver). The position is to investigate intra- and intercellular mechanisms of liver injury due to inflammation and immune responses, as well as mechanisms of steatohepatitis.

Contact: Chandrashekhar Gandhi, PhD
Email Address: Shekhar.Gandhi@cchmc.org

Research Fellow Job Number: TBA. A postdoctoral fellow position is available in the laboratory of H. Leighton Grimes, Ph.D (https://www.cincinnatichildren.org/research/divisions/i/immunobiology/labs/grimes). Recent work in the lab utilized single-cell RNA Seq to delineate both the architecture of myeloid leukemia (Cancer Discov. 2016 May;6(5):501-15. PMID: 27016502) as well as lineage decisions during homeostatic production of myeloid cells (Nature. 2016 Aug 31. PMID: 27580035). Current projects in the lab focus on generating novel models of marrow failure syndromes as well as myeloid malignancies, including Myelodysplastic Syndromes (MDS), Myeloproliferative Neoplasms (MPN) and Acute Myeloid Leukemia (AML). The candidate will have excellent training opportunities in a stimulating working environment. Highly motivated individuals with a strong background and interest in hematopoiesis, hematology, and/or oncology research and with the ability to multitask in a fast-paced lab are encouraged to apply. Applicants must be recent Ph.D. or M.D./Ph.D. graduates in cell biology, molecular biology, cancer biology, molecular genetics, developmental biology or related fields. A track record of peer-reviewed publications is required. Background in at least one of the following: molecular biology, genome editing, mouse work or bioinformatics are strongly desired. Interested applicants should send a single PDF file containing; 1) a CV of no more than three pages, 2) a brief statement of one page describing past accomplishments, research interests and career goals, and 3) contact information for 2-3 references to Dr. Grimes.

Contact: H. Leighton Grimes, PhD
Email Address: Lee.Grimes@cchmc.org

Medicinal Chemistry

Research Associate Job Number: TBA. A Research Associate position is available immediately in Dr. Marc Rothenberg's laboratory in the division of Allergy and Immunology. The Rothenberg lab is focused on elucidating the mechanisms of allergic responses especially in mucosal tissues such as the lung and the gastrointestinal tract. For more information see: http://www.cincinnatichildrens.org/research/divisions/a/allergy-immunology/labs/rothenberg/default/. The research associate will be focused on the development, synthesis, and evaluation of small molecule inhibitors of signaling pathway molecules relevant in allergic diseases. The ideal candidate will have a PhD or equivalent in Medicinal, Synthetic or Organic Chemistry with 3+ years' experience in protein structure or enzymology, and organic compound synthesis and evaluation. A working knowledge of the immune system and enzymology is preferable.

Contact: Marc Rothenberg, MD PhD
Email Address: Marc.Rothenberg@cchmc.org

Mass Spectrometry

Research Associate Job Number: 87786. The Department of Pathology and Laboratory Medicine at the Cincinnati Children's Hospital Medical Center is seeking a qualified person with experience in the area of steady state cellular based metabolomics, as well as metabolomics studies of human disease. Stable Isotope-Resolved Metabolomics (SIRM) technologies are being applied in the NMR-Based Metabolomics Core under the direction of Dr. Romick-Rosendale to support ongoing one-dimensional NMR metabolomics experiments and further expand our understanding of the relationship between metabolic pathways and disease. The candidate would join a team that has a strong background in both steady state cellular based metabolomics, as well as metabolomics studies of human disease, with the goal to establish the SIRM techniques within the core laboratory, as well as expand upon our current data analysis capabilities. The team in place has the strategic, informatics, clinical, and technical expertise to provide strong support for the candidate. The position requires a PhD in an analytical science and ideally 3+ year's laboratory experience in the area of NMR-based metabolomics. Training with emphasis on stable isotope-resolved metabolomics procedures is strongly preferred. Candidates who have demonstrated scholarly productivity by discovery and publication will also be preferred.

Contact: Lindsey Romick-Rosendale, PhD
Email Address: Lindsen.Romick-Rosendale@cchmc.org

Neurology

Research Fellow Job Number: TBA. A postdoctoral position is open in Dr. Lubov Timchenko's laboratory. Dr. Timchenko studies the molecular mechanisms of neuro-muscular diseases Myotonic Dystrophies type 1 and type 2. The main focus of the research includes investigations of signaling pathways in skeletal muscle and in brain in Myotonic Dystrophies and development of therapeutic approaches for these diseases. New PhD graduates with experience in research on human diseases are invited to apply.

Contact: Lubov Timchenko, PhD
Email Address: Lubov.Timchenko@cchmc.org

Behavioral and Developmental Neuropsychiatry

Research Fellow Job Number: 80452. The Behavioral & Developmental Neuropsychiatry group at Cincinnati Children's is looking for a post-doctoral fellow to participate in a growing vibrant translational treatment development group focused on persons with developmental disabilities (DD) including specific interdisciplinary research programs in fragile X syndrome, autism spectrum disorder, and Angelman syndrome (http://www.cincinnatichildren.org/research/divisions/p/psychiatry/labs/erickson-wink/default/). Post-doc candidates may have a terminal degree in a variety of disciplines given our breadth of involvement in all aspects of translational treatment development including biomarker development, drug development, outcome measure development, complex biostatistical analyses, electrophysiology, and molecular science. Opportunities exist for research-based assessment and evaluations of behavior and cognition.
in populations studied and medical intervention in these populations, among other opportunities. Interest in the DD research field is essential for success in this fellowship.

Contact: Craig Erickson, MD                        Email Address: Craig.Erickson@cchmc.org

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<td><strong>Research Fellow Job Number:</strong> 88263. Dr. SK Dey's lab studies embryo-uterine interactions during pregnancy including implantation, decidualization, placentation, parturition using transgenic mouse models. Other areas of research focus on epigenetics of early development. A postdoctoral position is available immediately to work with Dr. SK. Dey. For more information on projects see: <a href="http://www.cincinnatichildrens.org/research/divisions/r/reproductive-sciences/labs/dey/default/">http://www.cincinnatichildrens.org/research/divisions/r/reproductive-sciences/labs/dey/default/</a>. New PhDs with experience in developmental biology, reproductive biology, and computational methods are preferred.</td>
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<td><strong>Contact:</strong> Sudhansu K. Dey, PhD                       Email Address: <a href="mailto:SK.Dey@cchmc.org">SK.Dey@cchmc.org</a></td>
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