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.

Currently Available Postdoctoral Positions

**Division of Allergy and Immunology**

Research Fellow Job Number: 82258. A bioinformatics Research Fellow position is available immediately in Dr. Marc Rothenberg’s laboratory. 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 eosinophilic 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/CCR-3 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

**Division of Asthma Research**

Research Associate Job Number: 76870. A Research Associate position is available in Dr. Gurjit Khurana Hershey’s lab in the Division of Asthma Research. We are seeking a highly motivated scientist who is interested in studying asthma, allergy and immunology, specifically identifying and delineating the mechanisms underlying the contributions of genes and environmental factors that promote childhood asthma (http://www.cincinnatichildrens.org/research/divisions/a/asthma/labs/hershey/default/). 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 in molecular biology, immunology, or related field with a minimum of 3-5 years laboratory experience in molecular biology and immunology. Experience with mouse models preferred.

Contact: Gurjit Khurana Hershey, MD, PhD Email Address: Gurjit.Hershey@cchmc.org

**Division of Biomedical Informatics**

Research Fellow Job Number: 83513. A Research Fellow position is available in Dr. Nathan Salomonis’ lab in the Division of Biomedical Informatics. We are seeking a highly engaged research scientist who will lead the collaborative bioinformatics data analysis and algorithm development in the laboratory. The candidate will work closely with Dr. Salomonis, data analysts, programmers, collaborators and graduate students. The ideal candidate will have an extensive programming analysis, bio-statistical or machine learning experience, significant prior experience with genomics and informatics algorithm development and working with diverse research teams. Requirements: PhD in biomedical informatics, computer science or related field with a minimum of 3-5 years data analysis experience.

Contact: Nathan Salomonis, PhD Email Address: Nathan.Salomonis@cchmc.org
Research Fellow/Associate Job Number: 76289/85752. A new postdoctoral research fellow/associate position is available in Dr. Rashmi Hegde’s lab to study pulmonary arterial hypertension. In this project we are exploring a novel pathway that may play a role in the survival of pulmonary arterial smooth muscle and vascular cells in PAH patients. Small molecule inhibitors of this process are being tested in pre-clinical studies. Experience with the use of rat models and primary patient cells would be an advantage for this position. See http://www.cincinnatichildrens.org/research/divisions/d/dev-biology/labs/hegde/default/ for more information.

Contact: Rashmi Hegde, PhD Email Address: Rashmi.Hegde@cchmc.org

Division of Developmental Biology

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/e/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 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.cincinnatichildrens.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

Division of Experimental Hematology and Cancer Biology

Research Fellow Job Number: 84494. A postdoctoral position is available to study the earliest molecular/cellular features in nervous system tumor formation, using cellular and murine models of Neurofibromatosis type 1. Development of new mouse models and use of existing models in a preclinical therapeutics program is anticipated, with a focus on the use of gene expression to identify new drivers of tumorigenesis and therapeutic targets. Applicants must have demonstrated productivity, with training in nervous system development, genetics, or cell/cancer biology. Representative Publications: Wu J et al., Cell Rep. 2016 March 14(8):1979-90 and Ratner N, Miller SJ. 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; 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; Chang KH et al., Nat. Comm. 2015; Dumont LJ et al., Transfusion 2015) (http://www.cincinnatichildrens.org/research/divisions/e/ex-hem/labs/cancelas/default/; 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: Nancy Ratner, PhD Email Address: Nancy.Ratner@cchmc.org

Research Fellow Job Number: 83461. A Research Fellow position is available immediately in Dr. Jose Cancelas’ lab to study 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; Chang KH et al., Nat. Comm. 2015; Dumont LJ et al., Transfusion 2015) (http://www.cincinnatichildrens.org/research/divisions/e/ex-hem/labs/cancelas/default/; 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

Division of Gastroenterology, Hepatology and Nutrition

Research Fellow Job Number: 76296. A postdoctoral Research Fellow position is available in the Yin laboratory in the Division of Gastroenterology, Hepatology and Nutrition. Our lab uses zebrafish as a genetic model to study liver development and disease pathogenesis to 1) dissect the cellular and molecular mechanisms underlying liver fibrosis; and 2) understand the cell biology of hepatic biliary cells in zebrafish models of biliary diseases. Projects will utilize multidisciplinary approaches: genetics (transgenesis and application of CRISPR/Cas9 genome editing), confocal imaging, chemical screen, bioinformatics, and liver histopathology. Our group also has an ongoing collaboration with physicians in the Pediatric Liver Center and geneticists in the Division of Human Genetics to conduct translational research on human cholestatic diseases. Details about project areas can be found at: http://www.cincinnatichildrens.org/research/divisions/g/gastroenterology/labs/yin/default/. We seek a motivated young scientist who is independent, focused, productive, and possesses exceptional skills in cellular/molecular biology and an enthusiasm for using and
developing new techniques. A recent doctorate in Cell/Developmental Biology, Genetics, or related field is required. Experience with zebrafish and/or hepatology research is desirable, but not essential.

Contact: Chunyue Yin, PhD  Email Address: Chunyue.Yin@cchmc.org

**Division of Immunobiology**

**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/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 immunology are encouraged to apply. Experience with bioinformatics and/or gnotobiotics is also desirable.

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

**Research Fellow Job Number: TBA.** Dr. Claire Chougnet’s laboratory is studying T cell ontogeny during fetal development and how it is altered by exposure to the inflammatory stimuli associated with prematurity. Her laboratory is also studying regulatory T cell function and homeostasis (http://www.cincinnatichildrens.org/research/divisions/immunobiology/labs/chougnet/default/). The Chougnet laboratory has an open position for a highly motivated postdoctoral research fellow with an interest in immune regulation, T cell effector function, and/or neonatology. The applicant should have a strong background in cellular immunology, with specific experience including flow cytometry, cell purification and in vitro functional studies.

Contact: Claire Chougnet, PhD  Email Address: Claire.Chougnet@cchmc.org

**Division of Infectious Diseases**

**Research Fellow/ Research Associate Job Number: 84136/84313.** Dr. Sing Sing Way's laboratory in the Division of Infectious Diseases has an immediate opening for a Research Fellow and a Research Associate. 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

**Division of Molecular Cardiovascular Biology**

**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 PhD graduates with prior experience in mouse genetics and 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

**Research Fellow Job Number: 80312.** A postdoctoral research fellow position is available with Dr. Andrew Redington (http://www.cincinnatichildrens.org/research/divisions/c/cardiology/labs/redington/default/). The Redington lab is interested in ischemic reconditioning in ischemic-reperfusion injury and the role of mir-144 in modifying these events. We recently reported microRNA-144 as an effector of the acute and delayed cardioprotection associated with RIC, and future work will concentrate on the biology of mir-144 particularly as it relates to the modification of post MI remodeling. Recent PhD graduates with a strong publication record and special interest in cardioprotection/ischemia-reperfusion injury are encouraged to apply.

Contact: Andrew Redington, MD  Email Address: Andrew.Redington@cchmc.org

**Division of 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

**Division of Pediatric & Fetal Surgery**

**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: 79774/79776. The Shaaban laboratory 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 is a high-energy, dynamic, and interactive environment that is interested in recruiting self-motivated, committed individuals with the drive to succeed and the desire to be competitive at the international level. 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

**Division of Pulmonary Biology**

Research Fellow/Associate Job Number: 85438/85439. Dr. Tanya Kalin’s laboratory 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

**Reading and Literacy Discovery Center**

Research Fellow Job Number: 80452. A research fellow position is available in the autism and related disorders clinical research lab of Dr. Craig Erickson. For more information, please see http://www.cincinnatichildrens.org/research/divisions/p/psychiatry/labs/erickson-wink/default/. The fellow will support translational clinical trials including administering diagnostic and assessment batteries, clinical measures, eye tracking paradigms, and outcome measures.

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

Please check out our website for more information about Postdoctoral Research at CCHMC and a monthly-updated listing of postdoctoral fellowship opportunities at: http://www.cincinnatichildrens.org/education/research/postdoctoral/default/

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

For further information, contact the CCHMC Postdoc recruiter:  
Uma Sivaprasad, Ph.D. – siv9ni@cchmc.org

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