Postdoctoral Positions at Cincinnati Children’s

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.

Please review our current openings described in the subsequent pages (the links on the left will take you to the sections of interest).

Please submit a cover letter, CV, summary of research interests, and contact information for 3 references to the email address at the end of the position for which you would like to be considered.

Cincinnati Children’s Hospital Medical Center is an Affirmative Action/ Equal Opportunity Institution
Anesthesia

Research Fellow Job Number: 115990. The Department of Anesthesia, Division of Pain Management at Cincinnati Children’s Hospital Medical Center is seeking to recruit several enthusiastic and highly motivated Postdoctoral Research Fellows to join the innovative laboratory of Dr. Michael Jankowski. The Jankowski laboratory is investigating the molecular mechanisms of sensory neuron plasticity after peripheral injuries. Recently, our exciting novel research has found that a number of distinct non-neuronal cells have unique properties that are crucial for the detection and transmission of noxious stimuli across the lifespan under normal and pathological conditions. As part of our growing team, these Research Fellows will execute multifaceted studies designed to understand the mechanisms by which peripheral glia and circulating immune cells modulate sensory perception in the periphery to influence multiple biological processes including nociception, cardiovascular reflexes and myofiber repair. Results are expected to lead to the development of novel pain treatments for numerous injury and/or disease-related conditions.

Contact: Michael Jankowski, PhD  Email Address: Michael.Jankowski@cchmc.org

Bioinformatics/ Computational Biology/ Biostatistics/ Epidemiology

Research Associate Job Number:122598. The division of Emergency Medicine in collaboration with the division of Biostatistics & Epidemiology at Cincinnati Children’s Hospital Medical Center has an immediate opening for a postdoctoral Research Associate. The Research Associate will engage in emergency based clinical research with divisional Faculty and Fellows, including retrospective cohorts, cross-sectional, case control studies and prospective trials as well as quality improvement and implementation studies. This individual will split his/her time between supporting emergency medicine Fellows’ projects, teaching research methods, as well as developing his/her own line of research.

The division of Emergency Medicine has over 40 faculty and 13 fellows who provide emergency medical care in one of the busiest pediatric emergency departments in the country. The division has robust research infrastructure including approximately 20 clinical research coordinators, as well as data and financial analysts, a research supervisor, financial and a research manager. The division belongs to the PECARN Network, a federally funded network of 18 US pediatric hospitals. There are approximately 50 ongoing studies in the division, including 15 studies directly recruiting patients in the ED. The division receives ~ 4 million dollars/year in grant funding and produces ~ 100-120 publications per year, most of them in high impact journals. 3 or more years of relevant postdoctoral research experience is required. A PhD in Epidemiology with a minor in Occupational Health, Systems Engineering, Human Factors Engineering, Occupational Health Nursing, or related discipline is preferred. Experience in research/quality improvement is a plus.

Contact: Mekibib Altaye, PhD  Email Address: Mekibib.Altaye@cchmc.org

Research Fellow Job Number: 122599. Cincinnati Children's Hospital Medical Center has embarked on an ambitious initiative called Pursuing Our Potential Together (POPT). One part of this initiative is focused on groundbreaking research efforts in earlier identification and trajectories by integrating state of the art clinical, genetic, and population knowledge with high-performance computing. The Pestian Lab seeks a mission driven post-doc interested in collaborating with our world class team of scientists and clinicians. Upon joining our team, you will work with CCHMC and Oak Ridge National Laboratory to co-develop computational and technology solutions that identify the early symptoms of pediatric anxiety, depression, and suicide attempts. Specifically, you will focus on combining multimodal data and conducting machine learning and natural language processing analysis on the world's most powerful computers. Qualified candidates for the position have earned a Ph.D. in biomedical informatics, computer science, artificial intelligence, computational linguistics, or a closely related field and have experience working in the clinical setting. Research and work experience with Machine Learning and/or Deep Learning is required, and Natural Language Processing (NLP) is preferred. The successful candidate will have an excellent command of both written and oral English, strong programming skills, and familiarity with Linux + (Java or Python) + (R or MATLAB) for programming. Experience in parallel computing (e.g., with GPU) and familiarity with clinical NLP is preferred. Candidates with the first-author peer-reviewed journal publications are preferred.

Contact: Stephanie Loos (on behalf of Dr. John Pestian)  Email Address: Stephanie.Loos@cchmc.org

Research Fellow Job Number: 120831. The Division of Biomedical Informatics at Cincinnati Children's Hospital Medical Center (CCHMC) invites a postdoctoral Research Fellow to join our digital health initiative: the Design, Analytics, Integration (dAI)n program. The fellow will work closely with clinical investigators across the CCHMC and the University of Cincinnati to co-develop computational and technology solutions for improving the lives of children and adults. They will collaborate with other research staff, application developers, and IT technicians within a dynamic, fast paced research environment. Candidates should expect to conduct multiple machine learning and NLP-focused projects and contribute to decision tools, applied patient safety and health care quality improvement efforts.

Contact: Judith Dexheimer, PhD  Email Address: Judith.Dexheimer@cchmc.org

Research Fellow Job Number: 118554. Dr. Alex Miethke’s Autoimmune Liver Disease Laboratory (CALD) seeks a research fellow to perform and analyze single cell genomics studies on liver tissue samples from patients and from animal models of primary
sclerosing cholangitis, autoimmune hepatitis, or biliary atresia. These studies will involve cutting-edge, high-dimensional, immune-
system measurements (e.g., single-cell RNAseq, scATAC seq, and spatial transcriptomics) and will be analyzed in collaboration with
Dr. Miraldi providing expertise in computational and systems biology. Studies will be performed in partnership with other investigators of the
Division of Pediatric Gastroenterology focusing on single cell genomics and organoid studies to unravel disease mechanisms of
inflammatory liver and gut diseases (including inflammatory bowel disease) to develop novel and targeted therapies. The
mathematical modeling frameworks utilized between the Miethke and Miraldi labs span mechanistic (e.g., dynamic gene regulatory
networks) to deep learning (e.g., prediction of cellular epigenomes from DNA sequence). Situated at Cincinnati Children’s Hospital,
we are dedicated to studies that will ultimately improve the health of children. The ideal candidate will collaborate closely with other
computational biologists in the Divisions of Immunobiology and Bioinformatics, with physicians, and with clinical research coordinators
of the CALD. The Miethke investigative team is dedicated to compassionate translational research for and with patients with
autoimmune liver disease and their family members.

Contact: Alexander Miethke, MD Email Address: Alexander.Miethke@cchmc.org

Research Fellow Job Number: 118503. Dr. Heidi Sucharew has an immediate opening for a postdoctoral Research Fellow in the
Division of Biostatistics and Epidemiology. The research fellow will engage in methodological research and participate in collaborative
research in stroke. This individual will split his/her time between working on challenging methodological problems in the realm of
predictive modeling of stroke recurrence and pragmatic clinical trials, including methods for designing and analyzing randomized
studies with planned sample size re-estimation; and getting hands on experience as a collaborative biostatistician, including writing
statistical analysis sections for grants and conducting analyses for ongoing projects. Applicants should have an interest in applying
novel and state-of-the-art statistical methods in stroke and clinical trial design and management. There will be no shortage of
opportunities to collaborate and learn, as well as get involved in real world methodological advancement. The ideal candidate will
have a doctoral degree in Biostatistics or Applied Statistics, or equivalent, and experience in analyzing real data and predictive
modeling.

Contact: Heidi Sucharew, PhD Email Address: Heidi.Sucharew@cchmc.org

Research Fellow/Associate Job Number 123780. The Chen lab is looking for a passionate postdoctoral fellow (recent PhD) or
research associate (PhD & 3+ years postdoc experience) with a doctoral degree in bioinformatics, computational biology or statistical
 genetics, who will be involved in the analysis and method development for high-throughput omics (genomics, transcriptomics, epigenomics) and clinical data generated from patients and biological labs focusing on genetic diseases. Besides data analysis and
method development, the applicant will communicate scientific ideas and results in terms of oral presentations, research manuscripts
and proposals. The ideal candidate will have Ph.D. in bioinformatics, computational biology or statistical genetics or a related
discipline. A strong background in genomics, computational biology, and/or statistics, familiarity with high-throughput NGS data,
extensive programming, and data visualization experience is required. The ideal candidate will have: an interdisciplinary background in
bioinformatics and computational biology and genomics; experience with the analysis and interpretation of multi-omics data; good
programming skills; and knowledge of statistics, network analysis and machine learning.

Contact: Jing Chen, PhD Email Address: Jing.Chen2@cchmc.org

Research Fellow Job Number: 116939. Dr. Miraldi’s Immuno-Engineering Laboratory seeks a computational research fellow to build
mathematical models of the immune system in vivo. These models will be constructed from cutting-edge, high-dimensional, immune-
 system measurements (e.g., single-cell genomics, chromatin state, proteomics). Our mathematical modeling frameworks span
mechanistic (e.g., dynamic gene regulatory networks) to deep learning (e.g., prediction of cellular epigenomes from DNA sequence).
Situated at Cincinnati Children’s Hospital, we are dedicated to the design of computational methods and systems-immunology studies
that will ultimately improve the health of children. Through close collaboration with our physician and experimental colleagues, we
iteratively test and refine our models, so that the models yield novel insights into immune-cell function and ultimately guide new
therapeutic strategies in the context of autoimmunity, infectious disease, and cancer. The ideal candidate will collaborate closely with
experimental immunologists, physicians, and other computational biologists. The team will design and execute hybrid computational-
experimental strategies that push the boundaries of both immunology and computational biology. The ideal candidate will have a
quantitative background in computational/systems biology, engineering, computer science, statistics, math, or a related field. He or she will also (1) be a fluent programmer in at least one language (e.g., Python, R, MATLAB) and be willing to develop fluency in other
languages, as needed, (2) have research experience in machine learning, bioinformatics and/or mathematical modeling, and (3) a
trackable publication record. An enthusiasm and willingness to develop immunology expertise on the job is also necessary.

Contact: Emily Miraldi, PhD Email Address: Emily.Miraldi@cchmc.org

Research Fellow Job Number: 97786. Dr. Theresa Alenghat’s laboratory has an opening for a highly motivated postdoctoral research fellow with computational training and an interest in epigenetics and host-microbe interactions (http://www.cincinnatichildrens.org/research/divisions/immunobiology/labs/alenghat/default/). We explore molecular pathways that regulate how intestinal microbiota impact immune and metabolic homeostasis, infection, and inflammatory bowel disease. Candidates with publications reflecting expertise in epigenetics and bioinformatics analyses are encouraged to apply.

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

Research Fellow Job Number: 126873. Dr. Rhonda Szczesniak, Professor of Pediatrics, and Dr. Cole Brokamp, Assistant Professor of
Pediatrics have an opening for a postdoctoral research fellowship in geospatial data science and longitudinal forecasting with a
focus on public health and healthcare applications. This exciting opportunity will be supported by two major NIH-funded awards
(“Mapping environmental contributions to rapid lung disease progression in cystic fibrosis” and “A Framework for Automated and
Reproducible Geomarker Curation and Computation at Scale”) and will engage with the overlapping interdisciplinary teams of
scientists leading these two projects. At least two years of funding are available to support a mix of: geospatial data science /
geoinformatics tool development, including geocoding and geomarker assessment tools for nationwide multi-site studies (https://degauss.org); development and maintenance of a satellite-based machine learning model for high resolution prediction of
ambient hourly air pollution concentrations; geomarker-enhanced dynamic predictions of lung health for point-of-care diagnostics;
spatial data analysis for national mapping of lung health in diseased populations. The ideal candidate will have a recent PhD in statistics, computer science, informatics, biostatistics, or quantitative epidemiology. Experience programming with R and Git preferred. Candidates who can also demonstrate excellent technical and scientific writing skills are encouraged to apply.

Contact: Cole Brokamp, PhD Email Address: Cole.Brokamp@cchmc.org

Research Fellow Job Number: 127019. The Mersha Lab has an opening for a Research Fellow who will be involved in a combined computational and applied genetics project, focused on the development and implementation of ancestry-based detection and characterization of genetic and environmental exposure risk factors in asthma. The successful applicant will be part of the Population Genetics, Ancestry, and Bioinformatics (pGAB) Laboratory led by Dr. Mersha that applies computational and statistical analysis to interpret genomics and epigenomics data generated from subjects with asthma and asthma-related allergic diseases. Projects may include genetic pathways/networks and public functional annotation data mining. Completion of a Doctoral Degree in statistics, biostatistics, computational biology, statistical genetics, genetic epidemiology, or machine learning field related fields with 0-3 years postdoctoral experience is required. Candidates with outstanding programming skills in R, Python, Java, and Unix shell scripting are encouraged to apply.

Contact: Tes Mersha, PhD Email Address: Tesfaye.Mersha@cchmc.org

Research Associate Job Number: 125566. The Ikegami lab at Cincinnati Children’s Hospital Medical Center is recruiting Research Associates in the field of computational genomics. The Ikegami lab investigates mechanisms of gene regulation, chromosome organization, nuclear envelope functions, cardiovascular diseases, and age-associated diseases. The Ikegami lab uses diverse cutting-edge techniques in functional genomics, bioinformatics, cell engineering, stem cells, microscopy, and cardiac pathophysiology. Candidates must have a doctoral degree in biology, medicine, chemistry, physics, engineering, mathematics, or computer science. We seek candidates who have a PhD and a strong background in computer science, bioinformatics, quantitative biology, and/or biostatistics. Candidates interested in quantitative and predictive description of gene expression, chromosome organization, and cardiovascular disease progression are encouraged to apply.

Contact: Kohta Ikegami, PhD Email Address: Kohta.Ikegami@cchmc.org

Research Fellow Job Number: 127383. Dr. Nehal Parikh, Director of the Center for Prevention of Neurodevelopmental Disorders (CPND), is looking to hire a motivated postdoctoral Research Fellow to join a research team focused on understanding and early identification of brain abnormalities and neurodevelopmental disorders in high-risk newborns. The NIH-funded research crosses multiple disciplines including computational neuroscience, multimodal neuroimaging, prognostication, and neurodevelopmental rehabilitation. The focus is on integrating multimodal neuroimaging with advanced computational and engineering techniques to enable early diagnosis and prevention of neurodevelopmental disorders. Ongoing studies (the largest of its kind) are employing connectometric approaches to the over 500 advanced MRI scans collected in preterm infants soon after birth. These children are currently undergoing neurodevelopmental testing at 3 and 5 years of age and repeat neuroimaging at 5 years of age. This is a great opportunity to contribute to additional high-quality MRI data collection, processing, data analysis, student mentoring, and manuscript/grant writing. Applicants should have a PhD in Computer Science, Engineering, Physics, Statistics, Machine Learning, Psychology, Neuroscience, or a related field. Experience with scripting/programming languages (MATLAB, Python, R, etc.) and familiarity with MRI data analysis (fMRI, dMRI, qMRI, etc.) is a must.

Contact: Uma Sivaprasad, PhD (on behalf of Nehal Parikh, DO, MS) Email Address: research@cchmc.org

Research Fellow Job Number: TBD. The Roskin Lab combines computational and molecular biology methods to understand the adaptive immune system. Using modern sequencing technology, we study changes in the immune receptor repertoire and link those changes to immunogen exposure or autoimmunity/immunodeficiency status. We are looking for a postdoctoral researcher experienced in bioinformatics interested in applying their skills to process and analyze large scale immunological data sets. The ideal candidate will have a recent PhD & a strong publication track record. Experience with processing and analysis of large-scale data sets with modern "big data" methods preferred.

Contact: Krishna Roskin, PhD Email Address: Krishna.Roskin@cchmc.org

Cancer and Blood Diseases

Research Fellow Job Number: 125614. Dr. Soona Shin's laboratory is looking for a postdoctoral research fellow who will investigate the molecular mechanism of childhood liver cancer using animal and cell culture models. The ideal candidate will have a recent PhD degree in biology or a related field, with a familiarity with basic molecular biology techniques and cell culture, along with a strong interest in liver cancer research. Experience with mouse models is preferred but not required.

Contact: Soona Shin, PhD Email Address: Soona.Shin@cchmc.org

Research Fellow Job Number: 126633. The Lucas lab is actively recruiting a Research Fellow to understand the biology of hematopoiesis in the bone marrow and other tissues. The Research fellow will drive hypothesis generation, experimental design, assay development/optimization, experimental execution, data analysis, and manuscript preparation and revisions. There will also be opportunities to mentor and train graduate students and research assistants in the laboratory. Minimum qualifications are a PhD or MD in basic or health sciences or bioinformatics and at least one first author publication from their graduate studies. Experience in flow cytometry, confocal microscopy, or bioinformatics will be a plus.

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

Research Associate Job Number 126198. The CBDI Hemostasis/Thrombosis and Erythrocyte Diagnostic Laboratories are specialty clinical laboratories housed within the Cancer and Blood Diseases Institute. The individual who occupies this position will be responsible for expanding the diagnostic testing repertoire for these laboratories, from assay design through validation. This will be accomplished through working with the laboratory medical directors and clinical laboratory personnel. Job responsibilities will also include assisting in research that may advance the patient care mission of these laboratories. The ideal candidate will have a strong
knowledge of hematologic disorders including coagulopathies, platelet function problems, hemoglobinopathies and hemolytic anemias. Technical experience including flow cytometry, ELISA and molecular testing methods preferred.

Contact: Mary Reynaud  
Email Address: Mary.Reynaud@cchmc.org

Research Fellow Job Number: 119386. The Grimes Lab has an immediate opening for a postdoctoral research fellow to study myeloid hematolgy/oncology. The fellow will receive dual training in hematolgy/oncology and informatics (with @nsalomonis). The lab exploits cutting-edge omics tech to answer fundamental biological questions in hematopoiesis, marrow failure and myeloid leukemia. We develop new informatics tools when existing tools are insufficient to resolve the data. For example: PMID: 32494068, PMID: 30249787, PMID: 30243574, PMID: 29977015 and PMID: 27580035. Applicants must have completed a PhD in a related field, display critical and independent thinking skills, enthusiasm for science, and an ambition to succeed.

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

Research Fellow Job Number: 115529/126637. Dr. Jose Cancelas' lab studies the molecular and cellular biology of neurofibromatosis type 1 (NF1) is an inherited disease predisposing affected individuals to benign Schwann cell tumors called neurofibromas. But the molecular mechanisms of neurofibroma tumorigenesis are poorly understood. Surgery remains the mainstay of therapy for developed neurofibromas. New therapeutic strategies and new targets for neurofibroma treatment are urgently needed. The candidate will use genetically engineered mouse models to study the role of Runx-related transcription factor (Runx) family of genes (Runx1, 2, & 3) in neurofibromatosis and formation and test the therapeutic effects on neurofibroma mouse model using specific inhibitors. Candidates with a doctoral degree and a strong background in cancer biology and molecular biology background as well as genetically engineered mouse model experience are encouraged to apply.

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

Research Fellow Job Number 124582. Dr. BiplabDasgupta's laboratory is looking for a highly motivated, self-driven and ambitious postdoctoral researcher to start this winter in the Division of Oncology. 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 including Nature Cell Biology, Nature Communications, PNAS, Cancer Cell, Neuro-Oncology, Cancer Research and Trends in Pharmacological Sciences. 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: Jianqiang Wu, MD  
Email Address: Jianqiang.Wu@cchmc.org

Research Fellow Job Number: 125595. A position is available to study the role of Rho family GTPases and mTOR signaling in hematopoiesis and cancer, particularly in hematopoietic stem cells and cancer stem cells, in Dr. Yi Zheng's laboratory. The laboratory employs mouse gene targeting models and current molecular, cellular, and embryological techniques to elucidate the signaling pathways regulated by Rho GTPases and mTOR. A PhD in Molecular or Developmental Biology, Cell Biology, Biochemistry, or a related field, is required. Experience studying mouse models, hematopoiesis and/or various stem cell regulations are desirable.

Contact: Yi Zheng, PhD  
Email Address: Yi.Zheng@cchmc.org

Research Fellow/Associate Job Number: 119996. A postdoctoral fellow (recent PhD) or research associate (PhD & 3+ years postdoc experience) position is open in Dr. Richard Lu's lab in the Brain Tumor Center for individuals with an interest in glial cell biology, brain cancers, and neurodegenerative diseases. Research areas include brain development and tumorigenesis, demyelinating diseases such as multiple sclerosis, and functional regeneration. Recent PhD/MD graduates with a strong background in molecular & cell biology, neurobiology, cancer biology, or computational biology are encouraged to apply.

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

**Cardiovascular Research**

Research Fellow Job Number: 126493. The Millay lab has an opening for a postdoctoral fellow with experience in cell biology, biochemistry, or structural biology to work on exciting projects related to the mechanisms of muscle cell fusion. Our lab discovered the muscle-specific fusogens (Myomaker and Myomerger) that control the membrane fusion reaction in muscle cells, and we utilize cutting-edge technologies to understand how these proteins work. Applicants should have completed a PhD in a related field, possess independent thinking skills, and an excitement for science.

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

Research Fellow Job Number: 124629. Postdoctoral positions are available in the Waxman lab at Cincinnati Children's Hospital Medical Center. Congenital heart defects are very common within newborns. The Waxman Lab uses zebrafish as its primary model to elucidate mechanisms underlying normal and improper vertebrate heart development. Current research in the lab employs genetic,
cellular, and molecular tools to elucidate signaling pathways and transcriptional determinants of vertebrate cardiac chamber size and regeneration. Ideal applicants are motivated, creative individuals that have recently obtained a PhD or will obtain a PhD in the near future with a desire to perform research in a fun, collaborative, and supportive lab environment. Candidates ideally will have experience with some molecular biology, genetic, and imaging techniques from their graduate work. However, experience using zebrafish or studying cardiovascular development is not a requirement.

Contact: Joshua Waxman, PhD
Email Address: Joshua.Waxman@cchmc.org

Research Fellow Job Number: 122139. The Ikegami lab at Cincinnati Children's Hospital Medical Center is recruiting highly motivated postdocs. The Ikegami lab investigates mechanisms of gene regulation, chromosome organization, nuclear envelope functions, cardiovascular diseases, and age-associated diseases. The Ikegami lab uses diverse cutting-edge techniques in functional genomics, bioinformatics, cell engineering, stem cells, microscopy, and cardiac pathophysiology. We welcome candidates with a doctoral degree in biology, medicine, chemistry, physics, engineering, mathematics, or computer science. Candidates interested in quantitative molecular-level understanding of biology and disease processes are encouraged to apply. We also welcome candidates who wish to develop their own research agenda complementary to the current research foci in the lab.

Contact: Kohta Ikegami, PhD
Email Address: Kohta.Ikegami@cchmc.org

Research Fellow Job Number: TBD. Dr. 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. Outstanding new PhD 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

Research Associate Job Number 126830. The Genetics and Genomics Diagnostic Laboratory (GGDL) is a CLIA-certified and CAP-accredited lab in the Division of Human Genetics. We are looking for a highly motivated individual with a PhD (or equivalent) degree in molecular genetics, molecular biology, or related field, who is passionate in applying life science knowledge to clinical data analysis and interpretation. The candidate will join a team of genomic scientists (clinical variant curators), bioinformaticians, genetic counselors, and board-certified laboratory genetics directors who perform next-generation sequencing (NGS) data processing and analysis on clinical samples. The candidate would be mainly focused on conducting variant interpretations in molecular diagnostic tests and participating in molecular test development in a clinical laboratory.

Contact: Wenyi Zhang, MD, PhD
Email Address: Wenyi.Zhang@cchmc.org

Research Fellow Job Number: 126640. Dr. SK Dey is looking for a postdoctoral Research Fellow to join the research team whose interests fall into two broad categories: embryonic implantation and pregnancy, and reproductive cancers. Using genetically engineered mouse models, we work to define the uterine characteristics and circumstances necessary for successful embryo implantation, the implications of uterine ageing and the origins of reproductive carcinomas. The ideal candidate will have received a very recent PhD, MD/PhD, or equivalent degree in biomedical research & demonstrate high enthusiasm for research in basic reproductive sciences in female reproduction. Familiarity with contemporary techniques in molecular/cellular biology & mouse handling/ reproduction, breeding and surgeries in small animals along with experience in common laboratory techniques is a must.

Contact: SK Dey, PhD
Email Address: sk.dey@cchmc.org

Research Fellow Job Number: 121573. There is an immediate opening for two Postdoctoral Research Fellows in the Laboratory of Dr. Joo-Seop Park in the Division of Pediatric Urology and the Division of Developmental Biology. The long-term goal of research in the Park Laboratory is to understand how signaling pathways and transcription factors regulate cell fate determination in the kidney and bladder during development, homeostasis, and disease. Candidates with research experience in Developmental Biology or Cell Biology are encouraged to apply. Experience with animal models, particularly mouse models, is a plus, but not required.

Contact: Joo-Seop Park, PhD
Email Address: Joo-Seop.Park@cchmc.org

Research Fellow Job Number: 117558. A postdoctoral position is available at the Center for Stem Cell & Organoid Medicine (CuSTOM) at Cincinnati Children’s Hospital. The Helmrath lab seeks a motivated collaborative postdoctoral fellow to investigate single cell genomics of human GI organoids in regenerative medicine. Studies will focus on bioengineering nextgen multilineage organoids and defining the genetic/epigenetic regulation of the mesenchymal niche that supports engraftment during transplantation. CuSTOM is a multi-disciplinary center of excellence integrating developmental and stem cell biologists, clinicians, bioengineers, and entrepreneurs with the common goal of accelerating discovery and facilitating bench-to-bedside translation of organoid technology. Successful candidates must hold the PhD, MD, or MD/PhD degrees be highly motivated and have passion for collaborative research. Experience with computational biology and/or human pluripotent stem cells is an advantage.

Contact: Michael Helmrath, MD
Email Address: Michael.Helmrath@cchmc.org

Research Fellow Job Number: 122940. The Center for Stem Cell & Organoid Medicine (CuSTOM) at Cincinnati Children’s Research Foundation, USA is a multi-disciplinary team of scientists, clinicians and entrepreneurs using advances in developmental biology and stem cell technologies to revolutionize personalized medicine and improve patient care. In 2019, the new state-of-art CuSTOM Accelerator laboratory has been created to address major challenges posed to bench-to-bedside translation of stem cell research and accelerate the development of organoid medicine. At CuSTOM Accelerator we work at the intersection of academia and industry to develop organoid-based platforms able to bridge preclinical and clinical phases of drug development and revolutionize personalized medicine. CuSTOM Accelerator is now preparing to advance organoid technology toward regenerative medicine and highly predictive
screening tools for drug safety & efficacy as such is seeking a Research Fellow as a key participant in these efforts. This is an exciting opportunity to work closely with multiple functional groups and be part of the development of a new and exciting technologies.

**Contact: Magdalena Kasendra, PhD**  
**Email Address: Magdalena.Kasendra@cchmc.org**

**Research Fellow Job Number 124602.** A postdoctoral research fellow position is available immediately in the laboratory of Dr. Tanya Kalin to study the molecular mechanisms of lung injury, repair, and fibrosis. The position will involve the use of animal models and human cell lines, along with cutting-edge technologies and cell systems in the field. The ideal candidate will have a PhD degree in the biological sciences, a strong laboratory background with an experience in cellular and molecular biology techniques, microscopy, bioimaging, and handling small animals (preferable). The candidate must possess the ability to move the research projects forward, both conceptually and experimentally, thinking proactively, consistency, & motivation to succeed in a focused scientific environment.

**Contact: Tatiana Kalin, PhD**  
**Email Address: Tatiana.Kalin@cchmc.org**

**Research Fellow Job Number 124706.** The Özbudak Lab is looking for a postdoctoral fellow interested in combining interdisciplinary approaches to discover systems-level mechanisms governing spatiotemporal pattern formation during embryonic development. Embryos develop spatiotemporal patterns by encoding and interpreting biological signals in real time. Despite unavoidable fluctuations in gene expression, embryonic development is robust and reproducible, which necessitates several mechanisms buffering stochastic gene expression. A striking example of robust spatiotemporal patterning is the rhythmic segmentation of somites, which are precursors of the vertebral column. Segmentation of somites is controlled by 1) oscillatory expression of Hes/Her gene family, known as the vertebrate segmentation clock, 2) short-distance Notch signaling, 3) long-distance Fgf, Wnt, and Retinoic Acid signaling gradients and 4) a network of transcription factors integrating outputs of the segmentation clock and the signaling pathways. Errors in this regulatory cascade result in various birth defects, including congenital scoliosis. We combine single-cell microscopy measurements, time-resolved perturbation experiments, biophysical modeling, and computational simulations to decipher the mechanism underlying robust spatiotemporal pattern formation and cell fate determination.

**Contact: Ertugrul Özbudak, PhD**  
**Email Address: Ertugrul.Ozbudak@cchmc.org**

**Research Fellow Job Number: 123227.** An NIH-funded postdoctoral fellow position is available in the Barske lab in the Divisions of Human Genetics and Developmental Biology. The project investigates molecular mechanisms controlling growth plate patterning in the developing zebrafish skeleton. Techniques will include zebrafish transgenesis and lineage-tracing, confocal imaging of cleared specimens, and analysis of enhancer candidates. We are seeking a motivated and productive individual who has experience working with zebrafish models as well as in developmental biology, molecular biology, and genomics. Please visit the Barske Lab website for additional information on our other current research projects and our team. A recent PhD with experience in zebrafish research and knowledge of experience in developmental biology, molecular biology and/or genetics is preferred.

**Contact: Lindsey Barske, PhD**  
**Email Address: Lindsey.Barske@cchmc.org**

**Research Fellow Job Number: 119464.** There is an immediate opening for a Postdoctoral Research Fellow in the Jiang Laboratory in the Division of Developmental Biology. The long-term goal of research in the Jiang Laboratory is to understand and apply mechanisms of mammalian organogenesis to the development of better strategies for diagnosis, treatment and/or prevention of human birth defects. Candidates with research experience in Developmental Biology or Cell Biology are encouraged to apply. Experience with animal models, particularly mouse models, is a plus, but not required. Experience with research in Cellular or Developmental Biology. Experience with mouse genetics/mouse model systems is a plus.

**Contact: Rulang Jiang, PhD**  
**Email Address: Rulang.Jiang@cchmc.org**

**Research Fellow Job Number: 122327.** A postdoctoral Research Fellow position available in the Volk laboratory at Cincinnati Children’s Hospital, in Cincinnati Ohio (an affordable metro area of more than 2 million people, with access to the arts, great restaurants, excellent schools, and parks). The Volk Lab uses cutting-edge -omics technologies to fundamentally understand how the process of chromatin assembly affects cell state. We specialize in studying healthy and malignant development in the hematopoietic system. Fellows can expect in-depth mentoring and training at the interface of epigenetics and cell biology in a highly collaborative environment. At least one high impact publication and a PhD in a related field are desired. Mouse handling experience and/or experience analyzing -omics datasets is a plus.

**Contact: Andrew Volk, PhD**  
**Email Address: Andrew.Volk@cchmc.org**

**Research Fellow Job Number: 124604.** There is an immediate opening for a postdoctoral Research Fellow in the Kalinichenko Lab. The lab is investigating novel transcriptional mechanisms critical for embryonic lung development, lung injury/repair and lung carcinogenesis. The focus is on winged helix/forkhead box (FOX) proteins and their role in regulating cell signaling pathways required for cellular proliferation, differentiation, motility, and survival, to ultimately identify novel molecular mechanisms that cause human lung malformations, promote chronic respiratory diseases, or contribute to lung cancer. Our current projects use mouse models with loss-of-function and gain-of function for various FOX genes and novel pharmacological modulators of FOX proteins to identify transcriptional mechanisms impaired in pediatric and adult pulmonary diseases. A PhD in Cell, Developmental, Molecular Biology or a related field is desired. Experience with animal models is a plus.

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

**Research Fellow Job Number: 119257.** Dr. Kenneth Campbell has an immediate opening for a postdoctoral Research Fellow. The lab studies the development of neural circuits in the mammalian forebrain, particularly those that comprise the basal ganglia. Degeneration of these brain circuits, which control voluntary movements, leads to most of the behavioral changes observed in Parkinson's disease and Huntington's disease. Interestingly, because these neural circuits are responsible for appropriate behavior, they are implicated in childhood neuropsychiatric disorders, such as attention-deficit/hyperactivity disorder (ADHD), obsessive-compulsive disorder (OCD), Tourette syndrome and autism spectrum disorder (ASD). The lab hopes to uncover the molecular genetic mechanisms that control the normal formation of basal ganglia circuits. By disrupting or augmenting these circuits' formation, we hope to learn how normal behaviors are altered. This knowledge will help us generate mouse models of certain behaviors that characterize...
childrenhood neuropsychiatric disorders, paving the way for the development of improved therapeutics. Our research group has been instrumental in characterizing the embryonic neural progenitor sources of the different neuronal subtypes that comprise the basal ganglia and broader ventral telencephalic neuronal subtypes. We have also contributed significantly to the current understanding of how these progenitor domains are established in the developing brain. A PhD in Developmental Biology, Molecular and Cellular Biology, Neuroscience, Genetics, or related field is desired. Experience with animal models and genomics would be a plus.

Contact: Holly Ward

Research Fellow Job Number 118380. The Spearman Laboratory seeks a postdoctoral investigator to work on the interaction of HIV with cells of the central nervous system (CNS). The interactions of HIV with microglia and potentially other cells in the CNS are likely to modulate the occurrence of HIV-associated neurocognitive disorders (HAND). We are studying HIV-infected microglia and developing cerebral organoid models for the study of HIV interactions with and effects on the brain. Our work on the development of iPSC-derived microglia as an HIV infection model was recently published in Retrovirology [PMID 33213476]. The ideal candidate for this position will have a doctoral degree and experience with tissue culture, use of molecular techniques, and the design of creative experiments. Valuable experience would include culturing of induced pluripotent stem cells (iPSCs), microscopic skills including immunofluorescence analysis, and analysis of cell types and activation using transcriptomics.

Contact: Kenneth Campbell, PhD

Research Fellow Job Number 116903. There is an immediate opening for a postdoctoral Research Fellow in the Division of Clinical Pharmacology. The research focuses on the application of pharmacokinetic/pharmacodynamic/pharmacogenetic and disease modeling and clinical trial simulation to facilitate pediatric drug study design and improve individualized patient care. The Fellow will work with faculty across divisions on population pharmacokinetic–pharmacodynamics (PK/PD) and pharmacogenetic modeling as well as mechanistic physiologically–based pharmacokinetic (PBPK) modeling of drugs in pediatric patients participating in ongoing research studies. Emphasis will also be on the design of informative studies using modeling and simulation in neonates and infants including patients on ECMO and cardiopulmonary bypass. The Research Fellow will help develop and evaluate novel advanced numerical and computation approaches for disease progression/improvement modeling. Candidates must have a PhD, PharmD, or MD in Pharmacokinetics, Pharmaceutical sciences, Pharmacy, Biostatistics, or related discipline at the time of appointment. The ideal candidate should have working knowledge of PK/PD modelling and simulation, including some statistical principles (nonlinear mixed effects modelling, Bayesian statistics, and clinical trial simulation). Strong programming skills in R language are desired. Prior experience and knowledge related to PBPK software such as Simcyp and to biologics and therapeutic proteins would be a plus. The candidate is expected to have the capability of working with a multi-disciplinary team and to learn and integrate knowledge across different therapeutic areas. Good communication skills including oral and written English language skills are required.

Contact: Holly Ward (on behalf of Dr. Sander Vinks)

Research Fellow Job Number: 123042/117206. The Takebe Lab is seeking to recruit a highly motivated research fellow to lead a stem cell and organoid research investigating their potential for understanding human hepato-biliary-pancreatic development and pathogenesis towards therapy. Dr. Takebe’s lab proposes to take a “reverse reductionism approach” for a holistic mechanistic understanding of the dynamic nature of a self-developing system. The Takebe lab is also leading newly established Center for Stem Cell and Organoid Medicine (CuSTOM) to facilitate transformative application of organoids for the patients with no cure thru multi-industrial collaboration. Qualified applicants will have MD and/or PhD with peer reviewed research publications. Experience in molecular and cell biology, surgery, neurology, mathematics and/or bioinformatics is a plus.

Contact: Takanori Takebe, PhD

Research Fellow/Associate Job Number: 108979. A postdoctoral research fellow or research associate position is available in Dr. Ziady’s laboratory to examine the regulation of Nrf2 activity in CF primary epithelial cells, CF animal models, and tissues from CF patients. We plan to: 1) To determine the step(s) in the Nrf2 activation cascade that are dysfunctional in CF; 2) Examine the mechanism by which CFTR dysfunction results in the dysregulation of Nrf2; and 3) Test pharmacological agents that activate Nrf2 by different mechanisms as potential therapies for Nrf2 dysfunction (). Suitable candidates for the position will be new Ph.D. graduates seeking their first postdoctoral fellowship with a strong background in protein-protein interaction studies as well as biochemistry, along with the study of transcription factor activity. Knowledge of the regulation of redox balance in the cell and experience with proteomics and mass spectrometry would be ideal. Background knowledge in other areas where this inflammatory pathway is relevant (cardiac, pulmonary, and neurological disease) would be beneficial.

Contact: Assem Ziady, PhD

Research Fellow Job Number: 121911/121912. Postdoctoral positions are available for the Zorn, Wells, Takebe and Helmuth labs in the Center for Stem Cell & Organoid Medicine (CuSTOM) at Cincinnati Children’s Hospital. CuSTOM is a multi-disciplinary center of excellence integrating developmental and stem cell biologists, clinicians, bioengineers, and entrepreneurs with the common goal of accelerating discovery and facilitating bench-to-bedside translation of stem cell and organoid technology. CuSTOM labs study a diversity of topics ranging from the basic biology of stem cells and organoids to the development of new cell-based therapies in our state-of-the-art GMP facility. We invite applications from motivated postdoctoral fellows. Successful candidates must hold the PhD, MD, or MD/PhD degrees with an outstanding publication record and a demonstrated passion for biomedical research.

Contact: Aaron Zorn, PhD

Imaging Research Center

Research Fellow/Associate Job Number: 124459. A postdoctoral fellowship or research associate position is available in the Imaging Research Center at Cincinnati Children’s Hospital and Medical Center. The successful candidate will focus on developing and validating techniques for pediatric magnetic resonance imaging (MRI) in both neuro and body imaging applications, including quantitative parameter mapping, accelerated acquisition techniques, and advanced reconstruction algorithms. The candidate will be
expected to design and execute experiments, develop, and perform acquisition and reconstruction of images, and implement analyses to evaluate imaging results.

Contact: Mary Kate Manhard, PhD  Email Address: Mary.Manhard@cchmc.org

Research Fellow/Associate Job Number: 118263. The Cleveland Lab and the Center for Pulmonary Imaging Research (CPIR) at Cincinnati Children’s Hospital seeks to hire a Postdoctoral Fellow in the area of MR imaging research. The selected candidate will work in a unique, multi-PI center with a diverse team of engineers, pulmonologists, and imaging scientists to quantify lung structure and function using ultra-short echo-time (UTE) 1H and hyperpolarized 129Xe MRI in preclinical mouse models of lung disease and translational human studies in children and adults. Applicants with training in magnetic resonance—EPR, NMR or MRI—and a PhD in a relevant discipline (e.g., engineering, physics, medical physics, or chemistry) are encouraged to apply. While all candidate with strong MR backgrounds will be considered, ideal candidates will possess expertise in one or more of the following: pulse programming, image reconstruction/analysis, scientific computing (MATLAB, C++, etc.), hardware design, in vivo imaging/spectroscopy, or hyperpolarized media.

Contact: Zackary Cleveland, PhD  Email Address: Zackary.Cleveland@cchmc.org

Immunology/Inflammation

Research Associate Job Number 124940. The CBDI Diagnostic Immunology Laboratory is a clinical laboratory that performs testing to assist in the diagnosis and management of primary immunodeficiencies and other disorders of the immune system. The purpose of this position will be to become part of the team that develops and validates new clinical laboratory tests. An immunology background and skills in flow cytometry and/or genetics techniques are a plus.

Contact: Mary Reynaud  Email Address: Mary.Reynaud@cchmc.org

Research Fellow/Associate Job Number 121797. The Troutman Lab, located in the Division of Allergy and Immunology, has an immediate opening for a postdoctoral Research Fellow/Research Associate. The lab is focused on understanding behaviors of tissue immune cells, particularly macrophages and other myeloid cells, during disease. Lab research will combine genetic mouse models, patient samples, and next generation sequencing (NGS) technologies, towards decoding dynamic epigenetic mechanisms controlling gene expression. The applicant will be responsible for cell preparation/purification from tissues, generating submission ready NGS libraries, and data analysis using well established software/pipelines. Resulting hypotheses will be selected for experimental validation, using orthogonal approaches when possible. Ideal candidates will have a PhD or equivalent and experience in animal models of disease, cell biology, genomics, immunology, and/or molecular biology. In the absence of experience, an enthusiasm and willingness to develop expertise in integrative genomics data analysis on the job is also necessary.

Contact: Ty Troutman, PhD  Email Address: Ty.Trotman@cchmc.org

Research Fellow Job Number: 123228. A post-doctoral research position is available in the Pasare Laboratory to study inflammatory responses downstream of pattern recognition receptors and the cross-talk between innate and adaptive immune systems. We are currently focused on the following projects: 1. Innate control of adaptive immunity with a particular focus on IL-1 family of cytokines: The work focuses on understanding how different pathogens activate the innate immune system to induce tailored immune responses and the molecular pathways involved in pathogen recognition. 2. Role of inflammasome independent IL-1beta in systemic inflammation, auto-immunity, and anti-tumor responses: The work focuses on understanding how Effector and memory T cells induce pattern recognition receptor independent inflammation and identification of the molecules and receptors that induce T cell driven innate inflammation. The work has implications for several inflammatory diseases. Highly motivated candidates with a PhD in biomedical sciences and experience in, Biochemistry, Cell biology and Molecular Biology that are interested in doing research in Immunology are encouraged to apply.

Contact: Chandrashekhar Pasare, PhD  Email Address: Chandrashekhar.Pasare@cchmc.org

Research Fellow Job Number: 122103. Dr. Greg Tiao in the Division of Pediatric Surgery is looking to hire a motivated postdoctoral Research Fellow to join his team which focuses on the mechanisms involved in the development of biliary atresia (BA), which results in the primary need of pediatric liver transplantations worldwide. Studies will determine how the viral tropism for the bile duct cells depend on molecular domains of the virus and on the expression of specific proteins present on the surface of these cholangiocyte cells driving an immune response. Experiments will utilize animal models, cell culture including iPSCs, and human patient samples. Applicant should hold a PhD in immunology, molecular biology, biochemistry, virology, or a related field. Experience with disease models, cell culture, and strong understanding of the immune system a plus.

Contact: Bryan Donnelly (on behalf of Dr. Tiao, MD)  Email Address: Bryan.Donnelly@cchmc.org

Research Fellow/Associate Job Number: 119533/110268. The Division of Asthma Research is recruiting two postdoctoral fellows/associate with an interest in neuroscience and immunology to work on a project related to the mechanism of itch in eczema or atopic dermatitis. The research fellow will work under the supervision of Dr. Gurjit K. Khurana Hershey, Professor of Pediatrics and Director of the Division of Asthma Research. Candidates should have experience in cellular and molecular biology and, preferably neurobiology. The candidate should have effective written and oral communication skills and work well in teams as well as independently. The candidate should be organized, self-motivated, hardworking, and at least 1 previous first author publication of high-quality research.

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

Research Fellow Job Number: 118972. Fukun Guo, PhD, has an immediate opening in his lab for a postdoctoral Research Fellow. Dr. Guo’s lab investigates the role and mechanisms of Rho family GTPases in T lymphocyte development and function, particularly in the context of tumor immune evasion. Candidates need skills in flow cytometry, animal handling, and basic molecular and cellular biology. Experience in Immunology and Cancer Biology is a plus.

Contact: Fukun Guo, PhD  Email Address: Fukun.Guo@cchmc.org
Research Associate Job Number: 119984. Dr. Sing Sing Way's laboratory in the Division of Infectious Diseases has an immediate opening for a Research Associate. The laboratory investigates the immune pathogenesis of infectious diseases and immunological basis of protective immunity. For this position, there is a particular focus on reproductive and/or microbial immunity. 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: 99449/104634/106743. Three postdoctoral positions are available immediately in Dr. Marc Rothenberg’s laboratory, which is focused on allergic responses especially in mucosal tissues such as the lung and the gastrointestinal tract, and aims to understand mechanisms, develop drug targets and identify novel therapeutic strategies and agents. The postdoctorate will be focused on genomics, genetics, molecular immunology, and/or chemistry of several novel susceptibility loci and pathways involved in allergic diseases, and the biochemistry and enzymology of proteases (particularly calpain-14). The postdoctorate will develop, synthesize and/or evaluate small molecule detectors and inhibitors of signaling pathway molecules relevant in allergic diseases. The ideal candidate will have a PhD or equivalent in Biomedical Research with strong expertise in big data analysis, molecular and cellular immunology and/or genetics, Medicinal, Synthetic or Organic Chemistry. A working knowledge of the immune system, genetics and enzymology is preferable.

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

Research Fellow Job Number: 125453. A full time Postdoctoral Research position is available in the laboratory of Dr. Claire Chougnet. Investigations in the Chougnet lab focus on understanding the balance between inflammation and counter-inflammation. We are conducting studies aimed at identifying the effect of in utero exposure to acute inflammation on the developing immune system. Given the difficulty of modeling these conditions in mice, we have been pioneers in using non-human primates, in collaboration with the California National Primate Research Center, to study critical aspects of the developing immune system, combining these studies with analyses of samples from well-defined human cohorts. Candidates holding a PhD in Immunology or equivalent and experience in multi-parameter flow cytometry are encouraged to apply. Experience in analyzing bioinformatic data will be considered an additional strength. The successful candidate should display initiative and independence and enjoy working in a highly collaborative environment. If warranted by their research experience, candidates may be considered for a Research Associate position.

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

Research Fellow Job Number: 124885/125560. Dr. Senad Divanovic's laboratory studies the cellular and molecular basis of inflammation driven disease pathology, with focus on inflammatory, infectious, and metabolic diseases associated with obesity. We are looking for two motivated postdoctoral research fellows with an interest in contribution of innate and adaptive immune responses and immune mediators to: pathogenesis of obesity-associated sequelae and obesity-dependent transgenerational effects: adipocyte biology and obesity development; or regulation of parturition and induction of preterm birth. Creative recent PhD graduates, passionate about scientific discovery, desire to be competitive at the highest level, a track record of publications (first-authored publications in respected journals) and research experience in immunology, molecular biology, cell biology, or biochemistry are encouraged to apply. Experience with bioinformatics/genomic analyses is also desirable.

Contact: Senad Divanovic, PhD Email Address: Senad.Divanovic@cchmc.org

Research Fellow Job Number: 127124. The Madala Lab is seeking a highly motivated and talented postdoctoral fellow to study allergic asthma using advanced biochemical methods, and pre-clinical asthma models. The research themes of the lab are to understand novel mechanisms and druggable molecules involved in allergic asthma and fibrosis using a combination of biochemistry, immunology, molecular biology, flow cytometry, genomics, preclinical mouse models, and human tissue samples. The laboratory has identified several growth factors, cytokines, and transcription factors involved in allergic asthma and fibrotic lung diseases. Successful candidates will hold a Ph.D. and/or MD with 0-3 years postdoctoral experience. The candidate should be motivated and enthusiastic, with a keen problem-solving ability and rigorous research. Experience in immune cell activation assays, multi-color flow cytometry, cell culture techniques, and handling of animals is strongly desired. Candidates with a strong background in immunology and/or biochemistry are encouraged to apply. The qualified candidate will have experience in a wide range of molecular and cellular biology techniques, including characterization of protein-protein interactions as well as experience in cellular experiments (tissue culture, IP western, and siRNA) using primary cells.

Contact: Satish Madala, PhD Email Address: Satish.Madala@cchmc.org

Orthopaedics

Research Fellow Job Number: 127413. Dr. Whitlock is looking for exceptional postdoctoral candidates interested in pursuing interdisciplinary research in the field of Orthopaedic Tissue Engineering and Regenerative Medicine. The postdoctoral fellow will work on design, fabrication, and characterization of biomaterial-based 3D printed/bioprinted scaffolds for orthopaedic tissue engineering. Other techniques used will include cell culture, gene expression, biochemical, histochemical, immunohistochemical and mechanical analysis. Large animal experiments with porcine models will make up an important part of the research. The ideal candidate will be a highly motivated and independent Ph.D. or equivalent doctoral degree holder in biomedical engineering, chemical engineering, material science and engineering, or a related engineering or science discipline. Preference will be given to applicants with experience in bioprinting/ 3D printing and tissue engineering, natural and synthetic biomaterials, along with cell and molecular biology.

Contact: Jenny Anadio (on behalf of Patrick Whitlock, MD, PhD) Email Address: Patrick.Whitlock@cchmc.org

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