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Cincinnati Children's Research Foundation
Currently Available Postdoctoral Positions

Cancer and Blood Diseases Institute
Division of Experimental Hematology and Cancer Biology

Research Fellow Job Number: 67832. Joe Palumbo's lab uses cutting-edge genetic tools, including novel gene-targeted mice, to study the role of hemostatic factors in cancer pathogenesis. We have shown that hemostatic proteins play a fundamental role in tumorigenesis, tumor growth and metastasis. Our investigations into the mechanisms linking hemostatic system components to cancer progression have revealed novel interactions between coagulation proteins and components of the innate immune system (e.g., NK cells, macrophages) that are crucial in promoting cancer growth and dissemination. We have ongoing projects focused on defining the mechanisms coupling the hemostatic/inflammation nexus to colitis-associated colon cancer and cancer metastasis (http://www.cincinnatichildrens.org/research/divisions/e/ex-hem/basic-research/hemostasis-thrombosis/). These projects would be ideally suited to a post-doctoral fellow with experience in immunology (e.g., FACS analyses, ex vivo manipulation of immune cells, ELISA, RNA quantitation) and/or tumor biology (e.g., cell culture, murine tumor models, IHC).
Contact: Joseph Palumbo, MD Email Address: Joseph.Palumbo@cchmc.org

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: 80824. 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, using knockout mice. For this position, there is a particular focus on follicular helper T (Tfh), follicular regulator T (Tfr) and/or invariant NKT (iNKT) cell development and function in host/pathogen interactions. A Ph.D., MD, or equivalent with substantial cellular immunology and molecular biology experience is required. Ideal candidates will have experience in primary cell culture, flow cytometry, immunostaining and murine models along with experience working with Tfh, iNKT cells or in host-pathogen interaction research.
Contact: Fukun Guo, PhD Email Address: Fukun.Guo@cchmc.org

Research Fellow Job Number: 81556. The Division of Experimental Hematology and Cancer Biology has an opening for a Postdoctoral Fellow interested in DNA repair, Bloom Syndrome and Fanconi anemia. The project will utilize our recently developed methods to isolate multiprotein complexes from human cells (Singh, TR et al, Mol Cell 37: 879-886, Meetei, AR et al, Nat Genet 35,165-170, Meetei, AR et al, Nat Genet 36, 1219-24 and Meetei, AR et al, Nat Genet 37, 958-963). In addition, standard cellular and molecular techniques will be used. The Division is a high-energy, dynamic, and interactive environment that is interested in recruiting self-motivated individuals with the drive to succeed and the desire to be competitive at the international level. Candidates with a PhD and a strong background in molecular biology or biochemistry are preferred.
Contact: Ruhikanta Meetei, PhD Email Address: Ruhikanta.Meetei@cchmc.org

Research Fellow Job Number: 81555. Kakajan Komurov's lab research is centered on modeling and targeting cancer vulnerabilities through computational, *in vitro* and *in vivo* approaches. The research in the lab thus spans a range of disciplines, including bioinformatics and software development, biochemistry and animal work. The fellow will conduct a project on identifying the mechanisms of epigenetic and transcriptional aberrations in cancers, and elucidating associated targetable vulnerabilities. The project involves biochemistry, tissue culture and mouse experiments. Individuals with an interest in systems approaches are particularly encouraged to apply as the lab offers an excellent environment for training of systems biologists.
Contact: Kakajan Komurov, PhD Email Address: Kakajan.Komurov@cchmc.org

Perinatal Institute
Division of Reproductive Sciences

Research Fellow Job Number: 75705. 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 epileptics in early development and gynecological cancers. A postdoctoral position is available immediately to work with Dr. SK. Dey. For more information on projects see:
http://www.cincinnatichildrens.org/research/divisions/r/reproductive-sciences/labs/dey/default/. New PhDs with experience in developmental biology, reproductive biology, and computational methods are preferred.
Contact: Sudhansu K. Dey, PhD Email Address: SK .Dey@cchmc.org

Heart Institute
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: **78748.** A postdoctoral research fellow position is available in the Waxman lab (http://www.cincinnatichildrens.org/research/divisions/m/mcb/labs/waxman/default/). The Waxman Lab uses zebrafish as a model to understand the mechanisms underlying vertebrate cardiovascular development. We are interested in numerous facets of cardiogenesis and signaling, with one focus being the mechanisms by which retinoic acid signaling influences cardiomyocyte specification. Applicants should be motived, creative individuals with a strong record of productivity during their graduate research. Ideal candidates will have experience with multiple molecular biology and imaging techniques. 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: **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 Developmental Biology

Research Fellow Job Number: 69599. A Research Fellow position is available to work with Dr Raphael Kopan in the division of Developmental Biology (http://www.cincinnatichildrens.org/research/divisions/d/dev-biology/labs/kopan/default/). Our research is focused on elucidating the mechanisms of Notch signaling, on the renal stem cell niche, and on the role of TSLP signaling in modulation of the immune response. We are interested in recruiting self-motivated PhDs within a year of graduation, with at least 2 first author publications and strong recommendation letters. Candidates with a strong background in immunology, molecular biology, informatics, genomics, cellular biology or signal transduction are all encouraged to apply.
Contact: Raphael Kopan, PhD Email Address: Raphael.Kopan@cchmc.org

Research Fellow Job Number: 76289, 76290. Two new postdoc positions are available in Dr Rashmi Hegde's lab. Project 1. Regulation of developmental and pathological angiogenesis: We are studying the molecular mechanisms underlying the angiogenic process during embryonic development, in cancer, and in retinopathies. We use mouse models, in vitro cell based methods, xenografts and molecular biology. The ideal candidate will have experience in the use of mouse models, histology, microscopy, cell culture and biochemistry. Project 2. 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

Research Fellow Job Number: 78815. A postdoctoral research fellow position is available to study neural circuits in Dr. Yutaka Yoshida's laboratory. 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.cincinnatichildrens.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

Divisions of Plastic Surgery and Developmental Biology

Research Fellow Job Number: 69903. A postdoctoral position is available immediately to investigate the developmental mechanisms underlying craniofacial birth defects, such as cleft palate, using mutant mouse models. Our laboratory has extensive expertise in the generation and analyses of transgenic/gene-knockout mice, and in studies of developmental mechanisms of multiple organ systems (http://www.cincinnatichildrens.org/bio/l/yu-lan/). We are looking for candidates with a recent Ph.D degree in a biological science and research experience in cell biology, biochemistry, or developmental biology. Prior experience using mouse models in research is preferred, but not required.
Contact: Yu Lan, PhD Email Address: Yu.Lan@CCHMC.org

Division of Pediatric Surgery

Research Fellow Job Number: 77537. A postdoctoral Research Fellow position is available immediately to work with Dr Nikolai Timchenko in the Division of Pediatric Surgery. The Timchenko laboratory investigates molecular mechanisms of post-surgery liver regeneration, mechanisms of liver cancer and mechanisms of Non-Alcoholic Fatty Liver Disease (NAFLD) (http://www.cincinnatichildrens.org/research/divisions/g/thoracic-surgery/labs/timchenko/default/). Ph.D. in related discipline, MD, or equivalent required. Candidates should have experience with mouse models of diseases and molecular and cellular approaches.
Contact: Nikolai Timchenko, PhD Email Address: Nikolai.Timchenko@cchmc.org

Research Fellow Job Number: TBA. A postdoctoral research fellow position is available in the laboratory of Dr. Soona Shin to study the cellular and molecular mechanisms underlying pediatric liver cancer. The fellow will be involved in 1) developing mouse models of liver cancer, 2) establishing and optimizing protocols for the culture of primary human liver cancer cells, and 3) investigating the role of hepatic progenitor cells in liver cancer development. Recent PhD graduates with experience in animal models, tissue culture, and molecular biology techniques are invited to apply.
Contact: Soona Shin, PhD Email Address: Soona.Shin@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. 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 a postdoctoral Research Fellow 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: Aimen Shaaban, MD Email Address: Aimen.Shaaban@cchmc.org

Division of Human Genetics

Research Fellow Job Number: 60963. A Research Fellow position is available in the Stottmann lab in the Divisions of Human Genetics and Developmental Biology. Our interests are in the genetic basis of congenital malformations affecting the forebrain and craniofacial structures. Projects involve identifying novel genes through a forward genetic approach as well as characterizing previously identified mutations with a range of molecular embryological tools. More information can be found at http://www.cincinnatichildrens.org/research/divisions/h/genetics/labs/stottmann/default/. Applicants with first-author publications and experience in mouse genetics, molecular biology and/or embryology are preferred.
Contact: Rolf Stottmann, PhD Email Address: Rolf.Stottmann@cchmc.org

Research Fellow Job Number: 80528. A Research Fellow position is available in the Sun lab in the Divisions of Human Genetics. Ying Sun's lab studies lysosomal storage diseases and neurodegenerative diseases. We use cell and mouse models to study genetic disease pathogenesis and conduct translational research (http://www.cincinnatichildrens.org/research/divisions/h/genetics/labs/sun/default/). We seek a recent PhD/new research fellow who is motivated, focused and independent. Prior experience in stem cell research and animal handling is desirable. Candidates with laboratory experience in one or more of the following areas - molecular biology, cellular biology, biochemistry and genetics- are encouraged to apply.
Contact: Yin Sung, PhD Email Address: Yin.Sung@cchmc.org

Division of Gasteroenterology, Hepatology and Nutrition

Research Fellow Job Number: 76537. A new Postdoctoral Research Fellow position is available in the division of Gastroenterology, Hepatology and Nutrition in Dr. Rohit Kohli's lab. The overall aim of the Kohli lab is to better understand the pathogenesis of nonalcoholic steatohepatitis (NASH). This work is currently employing state of the art enteroid based tissue culture systems, murine and rat weight loss surgery models of survival surgery, and patient-based studies to investigate the role of bile acids and bile acid signaling pathways in the reversal and regulation of steatohepatitis/NASH. For more information see: http://www.cincinnatichildrens.org/research/divisions/g/gastroenterology/labs/kohli/default/. Prior laboratory experience working with small animals, general molecular biology techniques and experience with mitochondrial physiology is preferred.
Contact: Rohit Kohli, MBBS MS Email Address: Rohit.Kohli@cchmc.org

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 Endocrinology

Research Fellow Job Number: 81057. A postdoctoral position is available in Dr. Takahisa Nakamura's laboratory in the Division of Endocrinology. The lab focuses on the mechanism of RNA-protein network/signaling and its impact on metabolism in the pathogenesis of metabolic diseases such as obesity and diabetes. The successful candidate will be using molecular, cellular, and genetic approaches with mouse models to elucidate the contribution of RNA-protein network/signaling in obesity (please see previous studies - Cell 2010; Diabetes 2014; PNAS 2015; Cell Reports 2015). We are looking for an individual who is highly motivated, inquisitive, well-trained in molecular biology, metabolism, and/or immunology, and positively contributes to the collaborative atmosphere of the lab.
Contact: Takahisa Nakamura, PhD Email Address: Takahisa.Nakamura@cchmc.org

Division of Pulmonary Biology

Research Fellow/Associate Job Number: 81329/81332. The Kalin laboratory is interested in the transcriptional regulation of carcinogenesis and chemotherapeutic drug development. We use mouse cancer models to gain insight into regulation of cell signaling pathways required for tumor initiation, progression, metastasis, and tumor angiogenesis. New knowledge is applied to gain insight into progression of lung cancer, prostate cancer and rhabdomyosarcomas. The laboratory has identified several transcriptional pathways critical for carcinogenesis. The ultimate goal of our research program is to identify novel target genes for diagnosis and treatment of human cancers. The current opening will include projects to elucidate the role of Fox transcription factors in carcinogenesis, using transgenic mice, cell culture, and cancer tissues from human patients. We invite applications for a post-doctoral research fellow position (81329) from new graduates with a PhD in the biomedical sciences or, for the research associate position (81322), from candidates with a PhD and 3+ years of postdoctoral experience.
Contact: Tanya Kalin, PhD Email Address: Tatiana.Kalin@cchmc.org

Division of Pulmonary Medicine

Research Fellow Job Number: 81062. The Center for Pulmonary Imaging Research seeks a postdoctoral fellow to quantify lung structure and physiology in mouse models of pulmonary diseases, using UTE and hyperpolarized 129Xe MRI. A background in MR, a PhD in science or engineering, and a record of scientific productivity are required. Preclinical and non-Cartesian MRI experience is preferred.
Contact: Zackary Cleveland, Ph.D. Email Address: Zackary.Cleveland@cchmc.org

Research Fellow Job Number: 78737. A new Research Fellow position is available in Dr. Assem Ziady's lab to develop and study nucleic acid nanoparticles for human gene therapy. The primary focus is on elucidating mechanisms of uptake of these nanoparticles using primary cells and *in vivo* models. A strong background in protein-protein interaction studies as well as biochemistry is required along with molecular biology, gene expression and translational research. Knowledge of the cell biology of particle uptake and experience with proteomics and mass spectrometry is preferred.
Contact: Assem Ziady, Ph.D. Email Address: Assem.Ziady@cchmc.org

Research Fellow Job Number: 80994.A Research Fellow position is available in Dr Naren's lab (http://www.cincinnatichildrens.org/bio/n/ap-naren/) in the Division of Pulmonary Medicine. The research involves several complimentary approaches in understanding Cystic Fibrosis Transmembrane

Conductance Regulator (CFTR) using in vitro (tissue culture, stem cells) and in vivo (CF-knock out mouse model) systems. Studies will involve crypt isolation and 3D culture of organoids, two electrode voltage clamping (TEVC), Ussing Chamber, Iodide efflux measurements, FRET-imaging, Single Particle Tracking (SPT), molecular cloning, protein purification and protein binding assays. We are looking for a highly motivated newly graduated researcher with strong background in Cell Biology or Physiology.
Contact: AP Naren, PhD Email Address: anaren@cchmc.org

Center for Autoimmune Genomics and Etiology

Research Fellow Job Number: 75243. A postdoctoral fellow position is immediately available in Dr Iouri Chepelev's laboratory to investigate mechanisms of epigenome dysregulation in autoimmune and inflammatory diseases. Our laboratory uses high-throughput experimental and computational methods to generate and integrate genetic, epigenetic and chromatin structure data from immune cells in lupus, psoriasis and inflammatory bowel disease patient samples to understand dysregulation of the epigenome in disease states. Highly motivated and enthusiastic experimental biologists with expertise in one or more of the following fields are invited to apply: molecular biology, epigenetics, chromatin biology, genomics, autoimmunity and immune cell biology.
Contact: Iouri Chepelev, PhD Email Address: Iouri.Chepelev@cchmc.org

Division of Allergy and Immunology

Research Fellow Job Number: 73952. A bioinformatics Research Fellow position is available immediately in 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

Research Fellow Job Number: 81396. Dr. Yui-Hsi Wang has an immediate opening in his laboratory for a postdoctoral Research Fellow to study the cellular and molecular mechanisms underlying the susceptibility to allergic disorders. Research studies have focused on the role of innate immune and lymphoid cells in food allergies (J. Exp. Med.2010, 207(11):2479; Immunitiy, 2015, 43:1-15; J. Immunol.2015, 194(8): 3583-93; J Allergy Clin Immunol. 2015, In Press; http://www.cincinnatichildrens.org/news/release/2015/food-allergy-09-23-2015/). The fellow will be investigating new research interests including (i) Epigenetic and molecular programs of MMC9development and function; (ii) Type-2 innate (ILC2s and MMC9s) and adaptive (CD4 TH2and induced Treg cells) immunity in asthma, food allergy, and eosinophil-associated gastrointestinal disorders (EGIDs). The Division is a high-energy, dynamic, and interactive environment that is interested in recruiting self-motivated individuals with the drive to succeed and the desire to be competitive at the international level. Advanced immunologic approaches, animal models, and defined human tissue biopsies are employed in our research studies. Candidates with a strong background in molecular biology and immunology are encouraged to apply.
Contact: Yui-His Wang, PhD Email Address: Yui_Hsi.Wang@cchmc.org

Division of Immunobiology

Research Fellow Job Number: 81582. The Alenghat lab has an opening for a highly motivated, creative postdoctoral scientist with an interest in epigenetics, host-microbe interactions, and intestinal disorders. We are studying interactions with the microbiome and pathways that regulate epithelial and immune cell homeostasis in the context of intestinal health and disease (see Nature 2013 Dec 5;504 (7478):153-7). We investigate mechanisms underlying the host-microbe relationship and the development of chronic diseases, such as inflammatory bowel disease. Recent Ph.D candidates who are curious and passionate about scientific discovery and have expertise in molecular biology, bioinformatics, and mouse handling are encouraged to apply.
Contact: Theresa Alenghat, VMD, PhD Email Address: Theresa.Alenghat@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

Research Fellow Job Number: 81253 We invite applications for a post-doctoral research position with Dr. Darren Kadis in the Division of Neurology. The successful applicant will contribute to ongoing MEG studies of pediatric language and epilepsy. This is a two-year position focused in one or more of the following areas: 1) Methods for multimodal neuroimaging (fMRI+MEG); 2) Source-space connectivity; 3) Validation of integrated imaging and analysis protocols for mapping language. The successful candidate will have completed their PhD in biomedical engineering, physics, psychology, neuroscience, or a related discipline. He/she will have experience in collection and analysis of electrophysiological data, expertise in signal processing, with strong programming skills. Prior neuroimaging experience is a definite asset.
Contact: Darren Kadis, PhD; c/o Kimra.Smith Email Address: Kimra.Smith@cchmc.org

Communication Sciences Research Center

Research Fellow Job Number: TBA. Dr David Moore's laboratory studies human auditory development. The objective of the research is to relate behavioral to biological measures of auditory and cognitive function to understand and predict the ability of individual children to develop healthy hearing and listening. Current projects include (1) listening difficulty in children, (2) hearing in very young children (0-4 years old), and (3) neurogenetics. Techniques used include developmental psychoacoustics, measures of cognitive performance, objective audiological measures, EEG and structural and functional MRI. Self-motivated candidates with a strong background in neuroscience, experimental psychology, audiology or the physical sciences related to biology are encouraged to apply. Prior experience in MRI is preferred.
Contact: David Moore, PhD Email Address: David.R.Moore@cchmc.org

Reading and Literacy Discovery Center

Research Fellow Job Number: 75516. A new postdoctoral Research Fellow position is available immediately to determine the mechanisms underlying the typical course of reading development and reading difficulties in children using quantitative behavioral measures, neurophysiological (EEG, MEG, eye tracking), and neuroimaging methods (MRI, NIRS). The position is based in the Reading & Literacy Discovery Center's dyslexia and is part of a research effort designed to find neural and behavioral biomarkers that will help to objectively differentiate children with reading disabilities (dyslexia) from other populations with reading impairments from typical readers in different stages of development. Using these biomarkers, we aim to: 1) objectively identify dyslexia even before reading age (ie- in children younger than 5 years old) and 2) determine the effectiveness of different intervention programs

on neural-circuits supporting good reading outcomes. We have ongoing projects focused on defining the specific neural circuit impairments related to different reading pathologies as well as studies focusing on interventions: (https://rldc.cchmc.org/research). PhD or MD applicants (with dissertation related to reading, reading development, reading disorders, literacy, neuroimaging, neurophysiology or other related discipline) and a strong background in computer sciences, biomedical engineering, and/or neuroscience /cognitive psychology are encouraged to apply. Experience in neuroimaging studies in humans will be considered preferentially. Strong communication and writing skills are imperative.
Contact: Scott Holland, PhD Email Address: Scott.Holland@cchmc.org

Research Fellow Job Number: TBA. A research fellow position is available in the autism and related disorders clinical research lab of Dr. Craig Erickson (see his website for more information (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

Division of Clinical Pharmacology

Research Fellow Job Number: 70277. Drs. Alexander Vinks and Tsuyoshi Fukuda's research is focused 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 in a top tier academic setting. The Fellow will work with faculty at CCHMC 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 studies at our institution. 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 Associate will have an opportunity to be involved in the development and evaluation of novel advanced numerical and computation approaches for disease progression/improvement modeling.
Contact: Alexander Vinks, PharmD PhD FCP Email Address: Sander.Vinks@cchmc.org

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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 job number.
Cincinnati Children's Hospital Medical Center is an Affirmative Action/Equal Opportunity Institution
For further information, contact the CCHMC Postdoc recruiter:
Uma Sivaprasad, Ph.D. – siv9ni@cchmc.org