

Chapter 1 : Preclinical Sciences (PCS) < Kent State University

Our portfolio of services covers all aspects of the preclinical phase of drug and medical device development, from the scientific evaluation and selection of candidate compounds, through the planning and execution of entire preclinical development programs, to the support of regulatory interactions.

Last Name Email Name and email are optional and not part of your application. It will be used solely by CareersInPharmaceutical. Our purpose as a company is to discover and develop therapies that will change the course of human health. We value our passion for patients,? With a presence in more than 70 countries, and growing - we look for talented people to grow our business, advance our science and contribute to our unique culture. The candidate will develop novel small molecule and genetic screens for modifiers of neurodegenerative disease. Secondly the candidate will contribute to a cross-departmental project in validating new targets for drug discovery in neuroscience utilizing Celgene expertise and technology for protein degradation. As part of this work the successful candidate will need to balance strong performance in the lab as well as utilizing a network of internal collaborations. The position will have an outward facing role as well, utilizing and leading collaborations with contract research organizations and academic labs to fulfill the mission of developing new therapeutics for neurodegenerative diseases. The candidate should have demonstrated expertise in applying a variety of genetic and compound based screening approaches applied to neurodegeneration and a familiarity with regulation of gene expression and protein homeostasis. Neuroscience at Celgene The newly established Neuroscience and Imaging TCoE is focused on identifying and developing novel therapies for neurodegeneration. We are concentrating on mechanisms, pathways and targets that are known through genetics to play causative roles in human disease and whose modulation is expected to be disease modifying. A main strategy of our group is to develop partnerships with external leaders in technology and biology to build a world class drug discovery portfolio. In addition, we collaborate within Celgene to utilize our industry-leading understanding of protein degradation to identify and develop innovative medicines for neurodegeneration. Responsibilities will include, but are not limited to, the following: Design and implement novel approaches in neuroscience drug discovery including assay development, cell based small molecule and genetic screening, target and lead validation. Collaborate with internal groups to exploit Celgene technologies in protein degradation, developing strategies to identify and validate neuroscience targets. Design and produce gene edited cell lines for target validation and screening using in house expertise and coordination of external collaborations. Participate in the identification and management of neuroscience external partnerships using expertise in drug discovery and neurodegeneration. Represent NSI in internal project discussions to identify opportunities for collaboration across our therapeutic areas and technological functions. Ability to design, perform, and interpret complex in vitro mechanistic studies. Proven expertise in design and performance of high throughput cell based screens using small molecule or genetic approaches. Demonstrated ability to develop novel discovery approaches. Highly versatile laboratory skills and ability to push multiple projects in parallel. Ability to effectively collaborate with colleagues across scientific functions within research as well as with Business Development. Strong written and oral communication skills. Celgene is committed to equal opportunity in the terms and conditions of employment for all employees and job applicants without regard to race, color, religion, sex, sexual orientation, age, gender identity or gender expression, national origin, disability or veteran status. Celgene complies with all applicable national, state and local laws governing nondiscrimination in employment as well as employment eligibility verification requirements of the Immigration and Nationality Act. All applicants must have authorization to work for Celgene in the U.

Chapter 2 : Pre-Clinical Sciences - Lincoln Memorial University

Pre-clinical education at CPM provides a thorough grounding in the basic sciences and thought processes related to medical practice. Courses include Human Anatomy, Human Cell & Tissue Biology, Medical Biochemistry, Medical Genetics and Embryology, Neurobiology, Medical Microbiology and Immunology, Pathology, and Pharmacology.

The course is taught using a regional approach, with emphasis on structural and functional relationships. The laboratory instruction includes cadaver dissection supplemented with anatomical prosections, as well as cross-sectional anatomy and computerized educational material. Student must be enrolled in the Podiatric Medicine program. Combined Lecture and Lab Contact Hours: Reciprocal relationships between normal structural features and their functions are emphasized. Macromolecules, organelles, cells, fundamental body tissues and organs are compared and contrasted. Light microscopic preparations are examined in laboratories, which are closely correlated with lecture topics. Laboratory, Lecture Contact Hours: This includes structures, functions and biochemical mechanisms involved in the biosynthesis, utilization and degradation of amino acids, carbohydrates, lipids, proteins and nucleic acids. Also included are enzyme kinetics, bioenergetics, cellular communication, nutrition and biochemistry of specialized tissues and fluids. Molecular genetics, cytogenetics, genomics, and population genetics will be reviewed. This course will also review the major events and processes involved in normal and abnormal embryologic development of the major body organs and systems. The course is augmented with radiographs, MRI, surface anatomy and cross sectional studies. The course includes an introduction to basic concepts of podiatric medicine, surgery and biomechanics. Laboratory instruction includes a detailed dissection of the lower limb, supplemented with computerized educational materials and study of natural bone specimens. The course will deal with the anatomy, microscopic anatomy and physiology of the individual neurons and systems of neurons, which comprise the component parts of the nervous system. Topics will include sensory, special sensory and motor systems, the cerebral cortex, diencephalon, cerebellum, brainstem and spinal cord. Discussions will include reference to clinical disorders related to those structures. Muscular, blood, cardiovascular, respiratory, and renal cells, tissues, organs and their functions are studied. Regulation of these functions, interrelationships between systems and their effects on the organism and its homeostasis are detailed and investigated. Light microscopic preparations are examined in laboratories which are closely correlated with lecture topics. The structure, metabolism, genetics, control and laboratory techniques of each microbic group will be described. The roles and outcomes of these organisms in producing manifestations of human infection and disease will be investigated. This course will also introduce the student to the molecular, cellular and organismal mechanisms responsible for the human immune response system. Laboratory will provide hands on experience in staining, cultivation, identification, sensitivity testing, and immunologic techniques. Emphasis is placed on basic cellular pathologic processes injury, inflammation and repair, neoplasia , and description of diseases organized by organ system. An introduction to the concepts of clinical decision making through the use of case studies and current clinical literature will be emphasized. This course is designed to prepare practitioners to prescribe for maximum benefit and to recognize the clinical ramifications of concomitant drug therapy.

The Master of Science in Preclinical Sciences (MSPCS) Program is a week curriculum composed of 31 credit hours of biomedical sciences that are foundational to the practice of clinical medicine and the development of biomedical research.

The long term goal of the Academic Enhancement program is to empower the student to become a successful lifelong learner prepared to keep up with the changes in Medicine. Pre-Clinical Medical Science The pre-clinical curriculum is set up as a case based organ systems approach to medicine that establishes the connections between knowledge and practice immediately. The extensive use of virtual patient cases and study resources to compliment the lectures creates a stimulating learning environment for each student. IUHS emphasizes a competency based assessment learning model that ensures the student not only meets the expectations of medical school but learns knowledge acquisition and self-assessment skills critical to function in their pending postgraduate and professional environment. Academic Enhancement The long term goal of the Academic Enhancement program is to empower the student to become a successful lifelong learner prepared to keep up with the changes in Medicine. The short term goal is to provide student feedback on their knowledge management and learning while teaching them to be able to achieve that assessment themselves. This is done through a series of structured knowledge retention assessments with concrete and subjective components. The first concrete component is student use of the Exam Master testing system to create weekly self-assessment exams SAE related to the block material. These exams are monitored by the Academic Enhancement team for competency and knowledge management. The second concrete component is the offering of two Diagnostic Assessment and Retention DAR examinations at the conclusion of each block of study. In addition, this data, along with the block exam data, will inform their future review sessions in Blocks 9 and The subjective component is comprised of students being trained in knowledge self-assessment skills. This is achieved by using a predictive model of exam-taking, utilized throughout the program. Students are required to submit their predicted outcomes to the Academic Enhancement team. Students and the Academic Enhancement team use these predictions to help students resolve the outcomes of the predictions and learn how to direct their studies to address their weaknesses and misunderstandings most efficiently. The student first must make a decision about the knowledge in question to answer the exam and then must make a decision about that decision. This latter step forces students to validate and verify their understanding of the knowledge in question. The perceived areas of weakness versus real areas of weakness and perceived areas of strength versus real areas of strength are readily apparent in the outcomes. Testing and Assessment Students will also be instructed in predictive modeling of exam taking and self-directed learning assessment by utilizing the IUHS practice exams and Block exams. The goal of this exercise is to force the students to move beyond simply looking at questions, making some choice and then reading the answers. By recording and reporting their predicted choices they are forced to first make a decision about the material and then think about their understanding of it. AE will assess the B1 block exam and collect the missed questions. ICM allows for the modern medical student to have clinical knowledge and experience prior to the start of clinical rotations and the ICM program will provide him and her with a solid understanding of the procedures, skills and decision making necessary for success during clinical clerkships and residency. More Information! Mission IUHS uses a innovative low cost solution to transform the learning experience and underlying economics of medical education Active Learning The University puts the student, in all of its programs, in the middle of a collaborative learning experience with the best professors and academic support.

Chapter 4 : Preclinical Services | Altasciences

Master of Science in Preclinical Sciences Curriculum. The Master of Science in Preclinical Sciences (MSPCS) Program is a week curriculum composed of 31 credit hours of biomedical sciences that are foundational to the practice of clinical medicine and the development of biomedical research.

At LMU-DCOM, we combine traditional lecture-based didactic presentations and laboratory exercises along with highly interactive learning sessions, in the Team-Based Learning TBL format, that help students master the basic science concepts presented in lecture and lab. In TBL, students work outside of class with individual study of assigned material as preparation for in-class exercises that allow students to improve their critical thinking skills and demonstrate mastery of the topic under discussion. Students work in small teams of up to eight members to solve problems in various topics of medicine related to their current course work. The student acquires, through didactic lecture and laboratory practice, using simulated and standardized patients, basic clinical skills and procedures needed in clinical rotations and eventually as an independent physicians.

OMS-I In the fall of year one, students are introduced to topics in medical biochemistry, genetics and cellular biology in the Molecular Fundamentals of Medicine I course, with these topics being reinforced through the use of TBL exercises. The Medical Gross Anatomy and Histology courses cover structure of the human body from the macro level to the cellular level. Neuroanatomy studies the structure, innervation and function of the brain. Foundations of Modern Health Care I includes presentations and discussion on the foundational skills and information necessary to understand the dynamic practice of medicine in our society. The spring semester of year one includes Medical Physiology, in which basic principles of physiology are presented in a practical way relevant to medicine, and expand upon the biochemistry introduced in the fall semester. Medical Physiology provides students with a framework on how the human body functions normally and is a foundation for the system courses in the second year. Knowledge acquired in Medical Physiology also provides a foundation for Medical Pharmacology. Basic principles of pharmacodynamics and pharmacokinetics provides students a basic understanding of the therapeutic principles of pharmacology and the underlying mechanisms of drug function. In Molecular Fundamentals II, the functioning of the human immune system is studied as well as the bacterial, viral and parasitic invaders that cause human morbidity and mortality in infectious disease. The manipulative techniques that DOs employ as an additional treatment modality in their "toolkit" as physicians are taught in Osteopathic Principles and Practices OPP. OMM is structured for progressive learning over the first two years with fundamental tenets required to perform osteopathic manipulative techniques. Essentials of Patient Care EPC allows students to develop basic clinical skills through a combination of didactic lectures, simulation labs and standardized patient experiences. The students practices communication techniques and examination skills essential for a competent physician. EPC builds in knowledge and complexity over the course of the first two years, preparing students for their clinical rotations in the third and fourth years. Essentials of Patient Care EPC is a combination of didactic lectures, simulation labs and standardized patient experiences that help students practice techniques and examination skills essential as a competent physician. EPC builds in knowledge and complexity over the course of the first two years, preparing students for their clinical rotations in the third and fourth years. OMS-II The second year of medical school will focus on clinical application of the basic science concepts presented in year one. Students will have didactic lectures and interactive learning sessions TBL , using an organ system approach to medicine. Topics are presented with clinical considerations that integrate with practical application of basic science principles mastered in year one coursework. Organ systems are grouped as follows: Simultaneously, OPP and EPC course lectures and labs present clinical skills techniques and examinations that compliment the systems coursework. [Click here to read a complete listing of course descriptions Pre-Clinical Sciences.](#)

Chapter 5 : Master of Science in Preclinical Sciences (Macon Campus)

Pre-Clinical Sciences. The DeBusk College of Osteopathic Medicine at LMU (LMU-DCOM) has developed a modified systems curricular model that emphasizes basic science and foundational concepts of medicine in the first year of medical school and clinical application of those concepts in the second year.

Through the use of its Translational Science Platform, Jounce first focuses on specific cell types within tumors to prioritize targets, and then identifies related biomarkers designed to match the right therapy to the right patient. The successful candidate will be an integral part of a team of scientists supporting the preclinical and clinical development of novel cancer biologics. In addition, you will be involved in designing and developing cell-based, mechanistic assays to support preclinical research and clinical development. The candidate will be responsible for the proper design and execution of experiments, data analysis and interpretation, thorough documentation of work, and clear communication of results both in group settings and in written reports. If you are a highly-motivated self-starter who likes working on innovative research projects and collaborative teams, this is the job for you! Development and execution of bioanalytical and cell-based immunoassays to support development of novel immunotherapies from research through to clinical development stage. Thorough documentation of experiments and communication of results across functional teams. Drafting documents in support of regulatory filings. Mentoring junior staff members. Experience and comfort with the isolation of immune cells from blood and tissue, testing therapeutics in cellular assays, and phenotyping of immune cells. Ability to work with tissue and blood or blood products. Experience and comfort in developing, troubleshooting and qualifying bioanalytical assays to assess pharmacokinetics, ADA responses, and target engagement. Proficient at independently designing and executing experiments, analyzing data, and reporting conclusions to team members. Experience in application of a variety of technologies, data analysis packages such as Prism, FlowJo, and other tools to analyze a variety of analytical data. Excellent communication, organization and time management skills. Ability to thrive in a highly collaborative, fast-paced, team-oriented environment with colleagues from diverse disciplines. Familiarity working in GxP environments is a plus. We offer a competitive salary and benefits package. All applicants should be legally entitled to work for any employer in the U. To apply, please visit <https://>

Chapter 6 : Preclinical | Definition of Preclinical by Merriam-Webster

Pre-Clinical Sciences. Pre-Clinical Sciences are taught at the CVM during the first six semesters of the program. The coursework prepares our students for their clinical year rotations and beyond with solid foundations in biomedical sciences, medicine, surgery, reproduction and professional skills.

Chapter 7 : Pre-Clinical Laboratory Science | TN Transfer Pathway

ProClinical specialises in recruiting for life sciences companies and continuously has scientific and preclinical jobs in the early research and development phase of the drug development lifecycle that happens before clinical trials start.

Chapter 8 : Preclinical Jobs, Employment | calendrierdelascience.com

1, Preclinical Science jobs available on calendrierdelascience.com Apply to Laboratory Assistant, Scientific Partnership Representative, Translator and more!

Chapter 9 : Preclinical Trial | USC Department of Regulatory & Quality Sciences | USC

Altasciences' preclinical facility is designed to provide efficient and standardized workflows to ensure consistency in practices and uniformity in results. With industry-leading start times and competitive reporting timelines that include an

on-time reporting rate of 98%, our goal is to exceed all your expectations.