



KCU-COM RESEARCH AND SCHOLARLY ACTIVITY PLAN

2018-2019 ACADEMIC YEAR



Kansas City University
OF MEDICINE AND BIOSCIENCES

College of Osteopathic Medicine

NOT FOR
UNAUTHORIZED
RELEASE



KCU-COM RESEARCH AND SCHOLARLY ACTIVITY PLAN

ACADEMIC YEAR 2018-2019



KCU-COM MISSION AND VISION

MISSION STATEMENT

The College of Osteopathic Medicine (COM) prepares students to become highly competent, caring and compassionate osteopathic physicians who demonstrate the highest level of professionalism, ethics and sensitivity to the diverse personal and cultural contexts in which care is delivered. We are committed to the service of humanity and the advancement of knowledge through a collaborative environment that provides distinctive osteopathic clinical training and fosters excellence in education, research and scholarly activity, and lifelong learning.

VISION STATEMENT

The College of Osteopathic Medicine is recognized as a leader in osteopathic medical education and health care by exceeding standards of academic and clinical achievement.

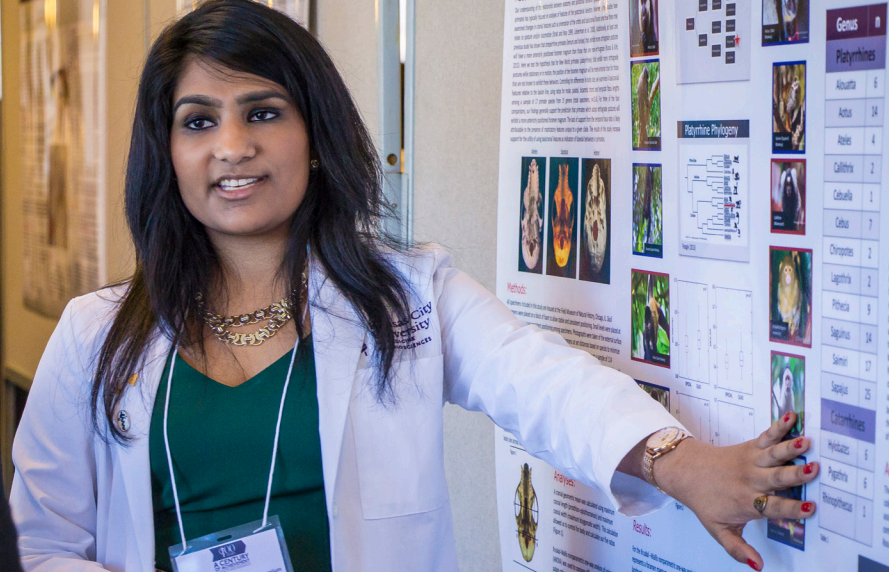
INTRODUCTION

The Kansas City University of Medicine and Biosciences (KCU) campus houses a private, post-baccalaureate, not-for-profit institution of higher education. Founded in 1916, KCU is one of the oldest medical schools in the United States, and is the oldest in Kansas City, Missouri.

The Kansas City University College of Osteopathic Medicine regularly conducts strategic planning to maintain and advance its research and scholarly activities. Current planning as outlined in the KCU Strategic Plan is intended to assure that KCU-COM provides the necessary resources and support needed to advance knowledge through research and scholarly contributions in the basic biomedical sciences, clinical medicine, and osteopathic principles and practice.

“...a collaborative environment that provides distinctive osteopathic clinical training and fosters excellence in education, research and scholarly activity, and lifelong learning.”





THE KCU-COM RESEARCH INFRASTRUCTURE

The Office of Research and Sponsored Programs (ORSP) provides pre- and post-award support for research grants as well as compliance oversight by the KCU Coordinator of Research Compliance who is charged with promoting and supporting ethical research at KCU. Mechanisms devoted to increase the practice and quality of ethical research include education and training via on-line modules, small-group presentations, and one-on-one contacts. Some of this training is mandatory, and must be completed prior to beginning the research, and must be updated annually. In particular, all investigators and personnel participating in human subjects or animal research are required to complete the appropriate basic education program developed by the Collaborative Institutional Training Initiative (CITI). The ORSP provides a fully functioning and accredited Institutional Review Board (IRB) as well as an Institutional Animal Care and Use Committee (IACUC). Members of these committees must complete mandatory CITI training. In addition, committee members must also participate in on-going training during committee meetings. KCU has a fully operational animal laboratory facility located on campus, and has a PHS Office of Laboratory Animal Welfare Assurance. The ORSP is also responsible for the Conflict of Interest program which assures and monitors investigator compliance with institutional policy on financial conflict of interest.

KCU operates a Biological Safety Program and has an Institutional Biosafety Committee (IBC) to review all research activities involving recombinant DNA or the deliberate infection of experimental

animals, as required by the NIH Guidelines for Research Involving Recombinant DNA Molecules, and by university policy. A mandatory, web-based Biosafety Training Program for both investigators and their laboratory personnel is required. Approved programs are subject to annual continuing review, and all laboratories of IBC-approved programs are inspected by our biological safety officer (BSO). IBC committee members must also participate in mandatory training modules.

While students are highly encouraged to participate in research, they are not permitted to act as a principal investigator (“PI”). Instead they must partner with a faculty member or preceptor who takes on the PI role. As active members of the research team, students must complete the associated CITI training, providing the research compliance coordinator with documentation prior to beginning work on the research project. Furthermore, KCU requires all students who are interested in engaging in research to apply through the Office of Research and Sponsored Programs. This way, student-researchers are provided with an additional layer of oversight and support, in conjunction with their faculty/preceptor PI.

The KCU-COM has established/improved its infrastructure significantly in recent years in order to continue to support faculty/staff research and scholarly activities, to improve the research culture within the KCU-COM, and to promote/facilitate student participation of research and scholarly activities. KCU’s leadership has committed to providing resources at the college and university level to support our research infrastructure.

EXECUTIVE VICE-PRESIDENT OF ACADEMIC, RESEARCH & STUDENT AFFAIRS- OFFICE OF THE PROVOST

The Executive VP of Academic, Research, and Student Affairs ensures adherence to the mission of the University’s colleges and Research programs, and ensures that the Academic, Medical Affairs and Research activities of the University meet compliance, accreditation and regulatory body standards, and directs and/or maintains authority over the fiscal management of the Academic, Medical Affairs and Research budgets

VICE PROVOST OF RESEARCH AND SCHOLARSHIP- OFFICE OF THE PROVOST

The Vice Provost of Research and Scholarship serves as the Provost’s chief advisor and representative in matters related to developing and implementing a strategic research program for the university. The Vice Provost has responsibility for providing innovative, collaborative and strategic leadership for the planning, development, implementation, maintenance and monitoring of strategic research initiatives, enhancing and achieving research goals, along with the direct management of research support personnel.

DIRECTOR OF SCHOLARLY ACTIVITY AND FACULTY DEVELOPMENT- GME CONSORTIUM

The GME Director of Scholarly Activity and Faculty Development (DSAFD) oversees research education, publications and scholarly activity for residents and GME faculty for the benefit of the GME Consortium programs. The DSAFD, in collaboration with the Designated Institutional Official (DIO), seeks to expand research resources by developing collaborative opportunities among consortium members. The DSAFD sits on the University Institutional Review Board (IRB) Committee, the University Research Symposium Planning Committee, and Chairs the KCU-GME Consortium Scholarly Activity and Faculty Development Committee. The DSAFD conducts and oversees the Resident Research course for residents and the Faculty Mentor for Research course.

START-UP FUNDING

Faculty start-up funding to support research is available through the provost’s office and within the COM. Annually, the university supports internal funding for pilot projects and initial start-up funds to promote the development of new projects. In 2018, grants typically range from \$5,000 to \$30,000 depending on the individual researcher’s request. These funds are also used to jump-start new faculty research projects. The COM principally dedicates resources to promote new scholarly activity for research dominant faculty (> 60% time spent in research) in addition to allocating resources to new faculty to support growth of our research infrastructure across the university.



LECTURE SERIES

KCU-COM supports a lecture series that identifies individual internal faculty from our colleges and university who are active in research and highlights current research the university is engaged with along with research protocol, procedures and opportunities to the faculty in general and the student body throughout the year. This series is sponsored by both the College of Osteopathic Medicine and the College of Biosciences. A goal of this series is to share research interests and highlight collaborative studies. The 3 main targets for this lecture series are internal and external in nature. First, our students are exposed to these presentations during academic sessions throughout the year. Second, the KCU faculty participate in the lectures given during the academic sessions with students and also present scholarly activity in our Institute for Learning Advancement (ILA) as faculty development. The third target in our lecture series can be found at the Kansas City Area Life Sciences Institute (KCALSI) which is a collaborative, multi-University organization designed to share research resources and develop collaborative projects. One of the KCU faculty is a co-founder of this organization and KCU faculty present at this venue throughout the year.

In addition to the above, our research is also highlighted regularly through our intranet website for employees and students and our internet website for the community.

RESEARCH SYMPOSIUM

KCU has a 26-year tradition of highlighting and showcasing our student’s research interests. Annually, we have Research Day which creates a venue for our students to present scholarly activity, posters, and projects they are participating in.

The research symposium is an opportunity for all students to see other projects from their fellow students. For some, the symposium can even incorporate scientific research into their career paths.

KCU-COM RESEARCH STRATEGIES

Strategic planning for research and scholarly activity at KCU-COM is aligned with the broader University goals established during our Strategic Plan development in 2017, setting both short term and long term strategic goals related to learning and discovery. On average, KCU commits roughly 3% of the total annual budget to research and scholarly activity and plans to continue to do so in the future. The current faculty distribution finds 88% of the KCU faculty within the COM, with the appropriate budget support allocated to the COM’s scholarly initiatives.

Current strategic planning as detailed in the KCU-COM Research and Scholarly Activity Strategy Matrix is listed on the following pages.

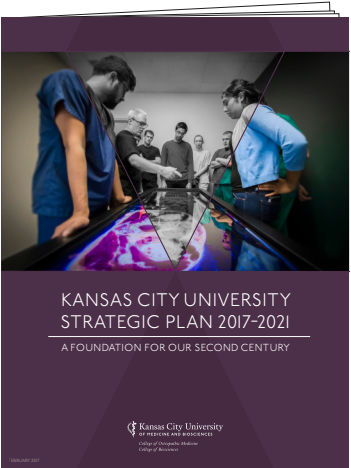
KCU-COM RESEARCH AND SCHOLARLY ACTIVITY STRATEGY MATRIX

To Support:

KCU Strategic Plan 2017-2021:
A Foundation for Our Second Century

All KCU-COM strategic activities listed in:

Building on The Momentum of Our First 100 Years:
KCU-COM Strategic Plan Foundation



KCU STRATEGIC PLAN GOAL 3: EXPAND RESEARCH THAT LEVERAGES THE REGION’S DIVERSE DEMOGRAPHICS AND RESOURCES TO IMPROVE THE HEALTH OF OUR COMMUNITY.

KCU-COM STRATEGY	TASKS	IMPLEMENTATION AND RESOURCES NEEDED
COM STRATEGY I: EXPAND RESEARCH INITIATIVES AT KCU	I.a. Identify and address constraints with research facilities	
	Evaluate current facilities for growth of research initiatives	Create auditing tools and form a facilities resource allocation team to evaluate further need
	Develop an interprofessional research resource allocation plan	Work with Provost’s office, Dean of COM and COB to identify economies of scale and additional resource allocation
	I.b. Align “protected time” for those faculty engaged in research as well as teaching	
	Identify key research faculty for expansion of research projects targeting student education	Identify in faculty adequacy model appropriate allocation of time resources to expand student research education
	Encourage faculty publication rate increase by allocating additional resources and protected time	Using the faculty adequacy model and assessing individual research productivity, develop a resource allocation plan to help enhance the publication rate of each researcher Target: Increase publication rate by 10% by 2021
	I.c. Encourage research partnerships to enhance and build professional collaborative	
	Identify key research faculty within the COM and COB to collaborate on projects	Executive Dean of COM and the Dean of the COB will identify overlapping faculty responsibilities and coordinate collaborative projects between schools
	Work with community partners to grow research initiatives	Work collaboratively through the Provost’s office to establish partnerships with community based research organizations
	I.d. Identify faculty for student research electives and tracks	
	Identify key research faculty within the COM and COB who can expand their teaching time to include research focused education of students	Work with Provost’s office to protect additional teaching hours for student research education
	Use faculty adequacy model to determine additional research focused faculty	Continue to monitor faculty adequacy in the area of research and allocate resources appropriately to expand faculty numbers
KCU-COM STRATEGY	TASKS	IMPLEMENTATION AND RESOURCES NEEDED

KCU STRATEGIC PLAN GOAL 3: EXPAND RESEARCH THAT LEVERAGES THE REGION'S DIVERSE DEMOGRAPHICS AND RESOURCES TO IMPROVE THE HEALTH OF OUR COMMUNITY.		
KCU-COM STRATEGY	TASKS	IMPLEMENTATION AND RESOURCES NEEDED
COM STRATEGY 2: EXPAND STUDENT EXPOSURE TO RESEARCH BY ENHANCING COLLABORATION AND PARTNERSHIPS IN KANSAS CITY, JOPLIN AND OUR PARTNER COMMUNITIES	2.a. Expand student research opportunities both internally and with community partners	
	Identify specialty research projects in areas currently not active at KCU	Using the faculty adequacy model and our research strategic growth plan, identify new areas of research that will enhance student interest and positively impact student applications to residency Target: Increase research application and scholarly activity 10% by 2021 Target: Increase grant submissions 5% by 2021
	Invest resources in our community partners to incorporate medical students in existing projects	Work through the Provost's office to create mentorship opportunities in community partner research facilities to enhance student participation and publications
	2.b. Promote the growth and development of faculty expertise in the areas of research, clinical trials, and osteopathic principles and practices	
	Expand current funded research projects accessible to students	Identify new opportunities in the area of clinical trials by collaborating with industry partners who align with our mission and vision for community health
	Expand current expertise in osteopathic principles and practices to enhance osteopathic specific research	The Executive Dean of the COM will work collaboratively with the Provost's office to identify specific osteopathic focused research and allocate resources to promote the development of these projects
	2.c. Coordinate research to connect projects and programs interprofessionally throughout the university and our communities	
	Collaborate between schools to create efficiencies in project development and implementation	Develop a standing agenda item to be addressed during the research committee meeting to identify collaboration opportunities
		Develop strategies to increase support for collaboration across colleges Strengthen resources and enhance awareness to support research involving Global Tracks, Anatomy and OMM fellowships
	Establish specific collaboration project awards for the KCU Annual Research and Scholarship Day	Identify projects to be presented as interprofessional projects between students and faculty from multiple schools and universities Target: Increase poster presentations by 5% by the 2020 Research Day
	Grow the relationships available to the university and research development	Conduct regular research summits that bring faculty together at a "roundtable" to discuss existing research focus areas, partnerships and opportunities for growth
	2.d. Encourage student participation in Annual Research Day	
	Enhance the number of student projects presented at Research Day by 10% by 2020	Increase student research interests by identifying projects that will add value to the application for medical school and residencies Augment research funding for pilot projects and data analysis
	2.e. Develop "visiting professor" series to augment the research learning experience	
	Promote "visiting professor" model across schools to further engage students at KCU	Develop a Provost and Dean planning committee to identify and schedule "visiting professors" to augment the research learning experience
	2.f. Provide an online research methods curriculum to 100% of matriculating students	
	Provide course materials to enhance student understanding of research methods	Work collaboratively with provost's office and deans to develop an asynchronous research methods course for students in the COM and COB The COM will incorporate this research course into its curriculum for all 1st year students thus establishing a research methods foundation in the COM
KCU-COM STRATEGY	TASKS	IMPLEMENTATION AND RESOURCES NEEDED

KCU STRATEGIC PLAN GOAL 3: EXPAND RESEARCH THAT LEVERAGES THE REGION'S DIVERSE DEMOGRAPHICS AND RESOURCES TO IMPROVE THE HEALTH OF OUR COMMUNITY.		
KCU-COM STRATEGY	TASKS	IMPLEMENTATION AND RESOURCES NEEDED
COM STRATEGY 3: CREATE A CULTURE OF COLLABORATIVE RESEARCH	3.a. Develop an integrated research strategy that better leverages existing research being conducted at KCU	
	Identify research integration opportunities currently existing at KCU	Identify research faculty with research projects that have opportunities to collaborate
	Grow research interest among students and faculty	Continue "Science Fridays" monthly event provided by the Research Committee within KCU as the hosting institution Encourage participation and COM student's interested in research to attend Science Fridays Identify speakers from around the world to lecture on their areas of specialized inquiry
	3.b. Partner with other research centers throughout Kansas City, Joplin and the region to enhance training and research opportunities in: the basic sciences; areas for translational focus; population health; and health disparities	
	Strengthen research opportunities for students and faculty with our partner institutions	Leverage opportunities for faculty collaborations and faculty exchanges Explore compensation plans to increase faculty presence at our partner sites Continue to expand collaborative efforts in our Research Day presentations by students presenting with their counterpart from external institutions
	Increase faculty involved in Kansas City Musculoskeletal Disease consortium to increase collaboration between member institutions	Develop intramural grant opportunities for faculty to initiate pilot projects and collaborative project development Target: Increase extramural research applications by 10% by end of FY 2021
	3.c. Create new opportunities for students and faculty to grow research and collaborate with other universities	
	Develop an adjunct professor model to formally integrate faculty between institutions	KCU faculty will have the opportunity to apply for pilot projects offered by other universities KCU faculty will have opportunity to co-mentor PhD students of other universities KCU faculty will benefit from core faculty and facilities of other universities
	Consider tuition waiver for 2nd year COB research track students	Develop a formal research track for 5-7 students per year in the COM and COB utilizing collaborative research opportunities with KCU and partner institutions Explore a COM research track and financial package to allow the development of a research dual degree in the COM
	3.d. Grow new areas of research and scholarship focus (Boyer Model) at KCU	
	Grow expertise in: •Medical Education Research •Social Research (Bioethics & PsyD-relevant) •Behavioral Health •Biomedical Research (basic & translational) •Clinical research	Through the provost's leadership team, additional researchers who can champion growth in these areas Develop a strategic plan for growth in these areas and the resource allocation needed for research expansion
	Increase number and quality of applications for grants and funding to local, regional and national funding agencies	Target: Resource allocation for grant writing and research administration will increase by 10% by 2021
KCU-COM STRATEGY	TASKS	IMPLEMENTATION AND RESOURCES NEEDED

COMMITTEES

The following listing details committees that provide logistical support, recommendations and regulatory oversight to the University’s research initiatives, advancing KCU-COM research and scholarly activities while ensuring strict adherence to policies, regulations and standards. The purpose and responsibilities of these committees are:



RESEARCH COMMITTEE

- + Manage and provide guidance regarding Research Symposium.
- + Review and provide recommendations to administration regarding funding of Intramural Grant applications.
- + Manage and provide guidance regarding Student Summer Research Fellowship program.
- + Provide guidance regarding COB Research Track program.
- + Make recommendations to administration regarding policy and procedures related to research.
- + Make recommendations to administration regarding investment in research, strategic planning and develop metrics for measuring outcomes.
- + Receive periodic reports from the Division of Research related to intramural and extramural funding and other relevant data.
- + Review and make recommendations regarding faculty research activity and development plan (grants in process, collaborators, etc.)

INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE (IACUC)

- + Develop and recommend policies and procedures to assure adherence with Federal Standards of the Animal Welfare Act governing the humane handling, care, treatment and transportation of animals.
- + Review policies and programs and inspect facilities at least annually when center is inactive; if there are active animal studies, meet at least every six months, review all protocols involving the use of animals.
- + Review training of those personnel working with animals, and review/investigate compliance with the Animal Welfare Act and the Guide for the Care and Use of Laboratory Animals.

INSTITUTIONAL BIO-SAFETY COMMITTEE (IBC)

Responsible for the adhering to the ‘NIH Guidelines for Research Involving Recombinant or Synthetic Nucleic Acid Molecules’ and carries out all functions required by the Guidelines. The IBC is a standing committee established by the University to:

- + Ensure that all activities involving biohazardous materials are conducted in compliance with federal, state and local regulations and applicable University policies.
- + Assist and advise the KCU community on incorporating good biological safety practices into all activities involving biohazardous materials.
- + Reduce the risk of potential biohazardous threats to the KCU community, the public and the environment.
- + Review and approve practices and procedures regarding research and other activities involving biohazardous materials and chemical hazards.
- + These responsibilities include, but are not limited to, specific practices for constructing and handling:
 - + *Recombinant DNA and synthetic nucleic acid molecules (this includes human gene transfer studies)*
 - + *Infectious agents*
 - + *Biological toxins*
 - + *Human-derived tissues, fluids, cells*
 - + *Animal-derived tissues, fluids, cells*

INSTITUTIONAL REVIEW/PRIVACY BOARD (IRB)

- + Review, approve and monitor Investigational Studies involving human subjects in accordance with regulations established by FDA-HHS.
- + Ensure the privacy, integrity and security of health information as it pertains to research.
- + Systematically review and approve research proposals that use any PHI (personal health information).

“...advancing KCU-COM research and scholarly activities while ensuring strict adherence to policies, regulations and standards.”

RESEARCH FACILITIES

As a continued commitment to research, KCU opened the 45,000-square foot Dybedal Center for Research (DCR) in 2004. The DCR is dedicated to state-of-the-art biomedical research with modern laboratories and support facilities for basic science researchers. Currently, 8,437 square feet of wet-laboratory space is available for faculty and student research. The center provides space for research targeting health disparities, and community health initiatives as well.

In Joplin there is 10,450 square feet of shell-space being reserved on the campus for labs to be built when our research growth matures on this campus. Additionally, we have signed an MOU with Missouri Southern State University (MSSU) in Joplin to utilize 1,103 square feet of wet lab space to include COM and MSSU students in faculty research projects.