



Opendra (Bill) Narayan, D.V.M., Ph.D.
Distinguished Professor of Marion Merrell Dow, 1993-2007
Chairman, Department of Microbiology, Molecular Genetics and Immunology, 1999-2007



The University of Kansas Medical Center



The University of Kansas Medical Center Research Institute, Inc.

EXTRAMURAL FUNDING FOR FISCAL YEAR 2007
(7/1/2006 – 6/30/2007)

January 2007

To the Greater Kansas City Community:

We are pleased to provide the annual report of all extramural sponsored program activities for Fiscal Year 2007 (7/1/2006 – 6/30/2007) at the University of Kansas Medical Center (KUMC), which includes the School of Allied Health, the School of Medicine – Kansas City, the School of Medicine – Wichita, and the School of Nursing, as well as the KUMC Research Institute, Inc.

The Fiscal Year 2007 Annual Report continues to include information on grants, contracts, cooperative agreements, and other submissions and awards to enhance understanding of the scope of research and other sponsored activities supported or seeking support from the extramural funding community.

We would like to extend our thanks to all of those who have worked to provide the information contained in this report. A special thank you goes to the Office of Planning and Analysis for providing the statistics and report design.

This report is dedicated to one of KUMC's outstanding researchers Bill Narayan, DVM, Ph.D., Distinguished Professor of Marion Merrell Dow Foundation and Chairman of the Department of Microbiology Molecular Genetics and Immunology. Bill died Christmas eve, 2007.

If you have questions regarding any information provided in the report, please contact the Research Institute at (913) 588-5436.

Sincerely,

Paul Terranova, Ph.D.
Vice Chancellor for Research - KUMC, and
President, KUMC Research Institute

In Memory of OPENDRA (BILL) NARAYAN, D.V.M., Ph.D.

The KUMC research community lost one of its pillars on December 24, 2007. Bill was born in Essequibo, Guyana in November 1936, became interested in science as a child. In 1963 Bill received his doctorate in veterinary medicine at the University of Toronto, Canada. In 1970, he received a Ph.D. for his studies on mechanisms of viral disease at the University of Guelph. In 1972 Bill moved to the laboratory of Dr. Richard T. Johnson, a well-known neurovirologist, at Johns Hopkins University where he studied lentiviruses. Several years later it was discovered that HIV belonged to the family of lentiviruses. During that time Bill's interest in HIV was tweaked and he began to study HIV. Bill rose through the ranks at Johns Hopkins where he attained the rank of Professor and Director of the Retrovirus Biology Laboratory. His studies received much attention and provided the framework for numerous studies of others investigating the pathogenesis of HIV and its effects on the immune and nervous systems.

In 1993, Bill moved to the University of Kansas School Medical Center where he was appointed as a Distinguished Professor and director of the Marion Merrell Dow Foundation. In the mid 1990s, Bill's team produced a chimeric simian-human immunodeficiency virus (KU SHIV) that produced symptoms in monkeys similar to HIV in humans. This was quite a breakthrough since the symptoms occurred quickly and served as a superb model for testing of vaccines to prevent/reduce infection.

In 1999, Bill was appointed chair of the Department of Microbiology, Molecular Genetics and Immunology in the School of Medicine, a recognition of his outstanding leadership. Bill provided a solid foundation on which to continue to grow the department. Bill secured a grant from NIH to establish a Center for Biomedical Research Excellence (COBRE) that fosters the careers of junior faculty in the area of microbial pathogenesis. Since 1976 (the year of his first NIH grant) Bill had obtained 32 different grants from NIH that totaled 129 grant years. Bill's contributions to the field were nationally recognized when he was bestowed with the Pioneer Award in 2006 for his work in Neurovirology. He had received other awards such as the Jacob K. Javit Awards from the National Institute of Neurological Disorders and Stroke (NIH) in 1986 and the Chancellor's Club Award from the University in 2003. Bill published more than 250 peer-reviewed articles and over 50 chapters. We miss Bill and his uniqueness.

About the KUMC Research Institute

The University of Kansas Medical Center Research Institute, Inc. (KUMCRI) is a not-for-profit organization established to promote and support medical research. Created by the University of Kansas Medical Center (KUMC) in 1992, the Research Institute administers funded research projects on behalf of KUMC. The mission of KUMCRI is to support and enhance the research efforts of the KUMC faculty and staff for the benefit of the public.

The Research Institute's objectives are:

- Serve KUMC by promoting and operating at the highest level of administrative and financial honesty and integrity;
- Foster individual and consortia partnerships between the KUMC researchers and national, regional, and local research bio-medical communities;
- Enhance revenue to researchers and the university through the transfer of research discoveries and other special information to the private sector; and
- Facilitate cooperative research interactions domestically and internationally between the KUMC and corporations and with other research centers throughout Kansas and the greater Kansas City Metropolitan area.

Research Programs

Overview

Research programs at KUMC include a wide range of areas such as: cancer, neuroscience, kidney/bone research, reproductive sciences, aging, maternal fetal, child health, ophthalmology/bioengineering, orthopedics/bioengineering, diabetics, cardiovascular, immunology/virology, integrative medicine, obesity, personalized medicine, public health, and liver/gastroenterology .

Cancer

Cancer research is the number one priority of the university and includes developing new therapeutics and diagnostics, determining the causes of cancer and providing clues on potential new forms of therapy, as well as developing safer drugs with fewer side effects. Additional research includes development of new chemopreventive agents and treatment strategies; the use of basic and applied sciences research to reduce cancer risk, incidence, morbidity, and mortality; and pursuing the discovery of novel anticancer agents, preventive drugs, and tumor imaging agents.

Neuroscience

Neuroscience research includes study of development, transplantation, demyelinating diseases, recovery of function following peripheral and central nervous system injury and stroke, motor and cognitive defects associated with HIV, neurophysiological, behavioral and molecular measures of early development, central mechanisms of hearing, neurotransmitters, female pain, diabetic neuropathy and plasticity.

Kidney/Bone Research

The Kidney Institute at the University of Kansas Medical Center has several directions of study. Polycystic Kidney Disease (PKD) research is a major topic that studies kidney cell proliferation with a long-term goal of finding a treatment for PKD that will alleviate the suffering of patients impacted by the disease. Researchers are studying how molecular mechanisms of polycystin-1 and normal and abnormal development of the kidney. Researchers also study the metabolic regulation of minerals in bones and kidney.

Reproductive Sciences

Research at the University of Kansas Center for Reproductive Sciences includes the investigation of fertility, infertility, and diseases of the reproductive system. Knowledge of the reproductive process is gained through basic and clinical research encompassing a wide range of scientific pursuits. Focus areas include male fertility; female reproductive cycles; cancer of the reproductive system; fertilization, implantation, and pregnancy; and the analysis of complex neural networks controlling hormone secretion reproduction and behavior.

Aging

The University of Kansas Medical Center faculty is engaged in research addressing a variety of problems related to aging, ranging from social concerns to cellular biology. Areas of research at the Landon Center on Aging includes diseases of old age such as stroke, cancer; health care technology as it pertains to the elderly including mechanical, biomechanical, and biomedical engineering; social issues of aging such as the needs of caregivers and end of life issues; health policy and health services for the elderly; and cognition and aging, brain plasticity and repair, and, and communication. These are conducted in an interdisciplinary setting. For example, the Brain Aging Project investigates a series of lifestyle issues that impact brain aging in addition to looking at the structure of the brain itself and how it changes with age.

Maternal Fetal

Scientists in The Institute of Maternal Fetal Biology investigate genes and proteins and their involvement in regulating maternal adaptations to pregnancy, immunology, placental biology, and fetal development. Special topics of investigation include preeclampsia, early pregnancy loss, intrauterine growth restriction, blood cell formation in the fetus (anemias and thalassemias), sexual development, maternal substance abuse, factors leading to birth defects, and pulmonary development and mechanisms of lung injury.

Child Health

Research teams provide assistance to families, teachers, doctors and others who work with them. Professionals, along with the family, develop a thorough understanding of the child's strengths and needs. Many children have developmental and/or behavioral challenges that are often puzzling to families, physicians or teachers. The goal is to accurately diagnose the problem, understand the reasons and recommend the most effective treatments.

Ophthalmology/bioengineering

The research program is emerging around the concept of a Center for Ophthalmic Engineering with emphasis on optics, refractive surgery, intraocular approaches and biomechanics of the eye (Many conditions of the eye including glaucoma, retinal and neurophthalmic diseases as well as tissue engineering and genetic determinants of ocular physiology and pathology can be explored using engineering principles.

Orthopedics/bioengineering

The Orthopedic Research Center includes specimen preparation and dissection, a machine shop, a wet lab, a biomechanical lab, a molecular lab, and a computer lab for computational biomechanical analysis. Molecular and cellular studies are identifying site-specific molecular targets regulating cartilage cell differentiation and the involvement of bone morphogenetic proteins. Additional studies include bone sialoprotein's role in osteogenesis. Gait simulation research is directed at improving hip replacement and walking.

Diabetes

The mission of the Diabetes Institute is to promote optimal health and wellbeing through the diagnosis, treatment, cure and prevention of diabetes and its complications. The research component of the DI is split into three divisions: 1) basic science aimed at discovering mechanisms; 2) healthcare delivery encompassing clinical outcomes, educational research and epidemiology and; 3) translational research focused on applying the basic and clinical studies to the clinical and/or community setting. Diabetes research ranges from basic and behavioral science fields to clinical outcomes research and translational research. Topics include beta cell function, diabetic neuropathy, and heart disease.

Cardiovascular

Research on the cardiovascular system includes basic studies related to integrin and vascular endothelial growth factor and their roles in heart development to clinical studies that assess the effects of various drugs on improvement of heart function.

Immunology/Virology

Research in immunology and virology include identification of immune correlates of protection against pulmonary and systemic bacteria, assessment of the molecular mechanisms of virus induced cell death/proliferation linked to neurological disorders, leukemia and some cancers, molecular aspects of HIV pathogenesis, vaccine development related to HIV, effects of drugs on immune parameters associated with HIV infection, and T cell homeostasis.

Integrative Medicine

This is an emerging program that investigates bioidentical hormones on heart disease risk and associated parameters, breasts (mammogram), bone density and uterine morphology during the menopause. Additional studies determine the effects of vitamins on cancer chemotherapy.

Obesity

The Obesity program includes scientists at KU Medical Center, the Lawrence campus, and Children's Mercy Hospitals and Clinics. The Center focuses on fighting the regional and national epidemic of obesity in children and adults. Obesity causes and/or impacts all chronic diseases. Thus physical activity, nutrition and weight management research is critical to understanding obesity.

Personalized Medicine (Clinical Pharmacology)

This program investigates novel methods to determine the variation in drug metabolism by humans since not all people respond the same to drugs. This research provides insights into potential drug interactions in patients that take multiple drugs. Additional studies include the study of the effects of apheresis (removal of extremely high lipid from the blood) on cardiovascular risks and microvascular flow which can induce improvement in several disease states.

Public Health

The mission of the emerging public health program is to improve health and health services delivery. This is accomplished through 1) training and education of our workforce including numerous health care professions as well as doctors, nurses, and administrators 2) provision of services that assess health needs and 3) research that promotes health, prevents disease and improves health care delivery.

Liver/Gastroenterology

Liver research at KUMC occurs largely within the Liver Center. Major emphasis is given to Metabolic Syndrome which is a combination of medical disorders that increase the risk of heart disease, stroke, and diabetes. Alteration in liver function has a role in development of metabolic syndrome. Other areas of focus are mechanisms for progression of fatty liver to liver cancer; genetic and epigenetic factors that contribute to liver cancer and metabolic diseases; individual differences in liver (drug) metabolism (pharmacogenomics); mechanisms of alcoholic liver disease and factors for alcohol abuse, and discover new drugs and diagnostic methods to prevent and treat liver cancer and metabolic diseases. The Liver Center also includes research on gastrointestinal disorders and treatment. Active clinical and translational research occurs in the areas of Barrett's esophagus and gastrointestinal-esophageal reflux disease, GI cancer prevention, GI motility, and advanced endoscopy.

University Administration

Robert E. Hemenway, Ph.D.

Chancellor

Richard Lariviere, Ph.D.

Provost and Executive Vice Chancellor, KU Lawrence Campus

Barbara F. Atkinson, M.D.

Executive Vice Chancellor, KU Medical Center

Research Administration

Paul F. Terranova, Ph.D.

Vice Chancellor for Research, KU Medical Center
President, KUMCRI

Ted Knous, Ph.D.

Associate Vice Chancellor for Research Administration, KUMCRI

Cydney Boler

Director, Corporate Counsel and Contracts Office, KUMCRI

Steven Geiger

Sr. Deputy Director and Chief Financial Officer, KUMCRI

Mei-Shya Chen

Director, Sponsored Programs Administration, KUMCRI

Diana Naser

Director, Clinical Research Administration, KUMCRI

Jim Baxendale

Director, Technology Transfer, Intellectual Property & Commercialization

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O v e r v i e w

Awards

- In FY 2007, extramural awards (all sources) totaled \$93,106,996, an increase of \$4,241,498 (5.8%) from FY 2006's total of \$88,865,498.
- Total awards for the KUMC schools for FY 2007 were: School of Medicine - \$76,111,590 (School of Medicine – Kansas City has awards totaling \$74,962,967 and School of Medicine – Wichita's awards totaled \$1,148,623), School of Allied Health - \$2,931,613, and School of Nursing - \$6,998,422.
- Six departments each received awards totaling over \$5 million in FY 2007.
- Twenty-two principal investigators each received awards totaling over \$1 million in FY 2007.
- In FY 2007, the Research Institute managed a total of 1,146 grants and clinical trials, a decrease of 3.0% from 1,182 managed in FY 2006.

Proposals

- In FY 2007, 651 proposals (both clinical trials and standard grants) were submitted, a 4.5% increase from the 623 proposals submitted in FY 2006. Grant dollars requested in FY 2007 totaled \$280,153,026, a decrease (21.1%) from the \$354,961,018 requested in FY 2006.
- As of 12/20/2007, 46% of the 651 proposals submitted during FY 2007 had already been funded. Twenty-seven percent were pending, under review, or under development. The remaining proposals were not funded (24%) or withdrawn (3%).

Clinical Research Dollars Contracted and Received

- Contracted dollars for FY 2007 for Clinical Research totaled \$17,743,819, an increase of \$3,855,727 (27.8%) from FY 2006. Revenue increased from \$5,064,496 in FY 2006 to \$5,311,751 in FY 2007, an increase of \$247,255 (4.9%). The ratio of contracted dollars to revenue in the same fiscal year decreased from 0.36 in FY 2006 to 0.30 in FY 2007.

Expenditures

- Total extramural expenditures for FY 2007 were \$80,388,712, an increase of 7.8% from the \$74,561,756 expended in FY 2006.

Biotechnology Development Center of Greater Kansas City (KCBDC)

- The Biotechnology Development Center of Greater Kansas City (KCBDC) managed by the KUMCRI is a community-based wet lab incubator that provides high-growth potential complete with the resources needed for the development and commercialization of biotechnology products and services. The Biotechnology Development Center, located on the KUMC Campus, features 6,000 square feet of combined office and wet lab space, as well as telecommunications support, office services, and shared lab services.

2007 Faculty Research Day

- The annual Faculty Research Day and Poster Session at KUMC on Thursday, November 8, 2007 featured Eva L. Feldman, MD, PhD, Russell N. DeJong Professor of Neurology at the University of Michigan, who provided the keynote address, "Drug Discovery and Drug Targets in Diabetic Neuropathy."
- Honored for special contributions to the advancement of research at the KUMC were:
 - Kansas IDeA Network of Biomedical Research Excellence Scholars
 - Christophe Nicot, PhD (Microbiology, Molecular Genetics and Immunology)
 - Irina V. Smirnova, PhD (Physical Therapy and Rehabilitation Sciences)
 - John A. Stanford, PhD (Molecular and Integrative Physiology)
 - Thomas L. Noffsinger Investigator Award
 - Geraldine Arrode, PhD (Microbiology, Molecular Genetics and Immunology)
 - Faculty Investigator Research Award Winners
 - Nancy Dunton, PhD (School of Nursing)
 - Christophe Nicot, PhD (School of Medicine)
 - Irina V. Smirnova, PhD (School of Allied Health)
 - Joseph S. Tash, PhD (School of Medicine)
 - Chancellor's Club Research Award Winner
 - Randolph J. Nudo, PhD (Molecular and Integrative Physiology)
 - The Research Administrator Award
 - Frederick P. Achen, BSCS (School of Nursing)
 - Heiata Chapman (Anatomy and Cell Biology)
 - Pat Laubinger, MPA, BSN (Alzheimer and Memory Program).
- Faculty and their students submitted the most posters (126) ever since the beginning of Research Day.

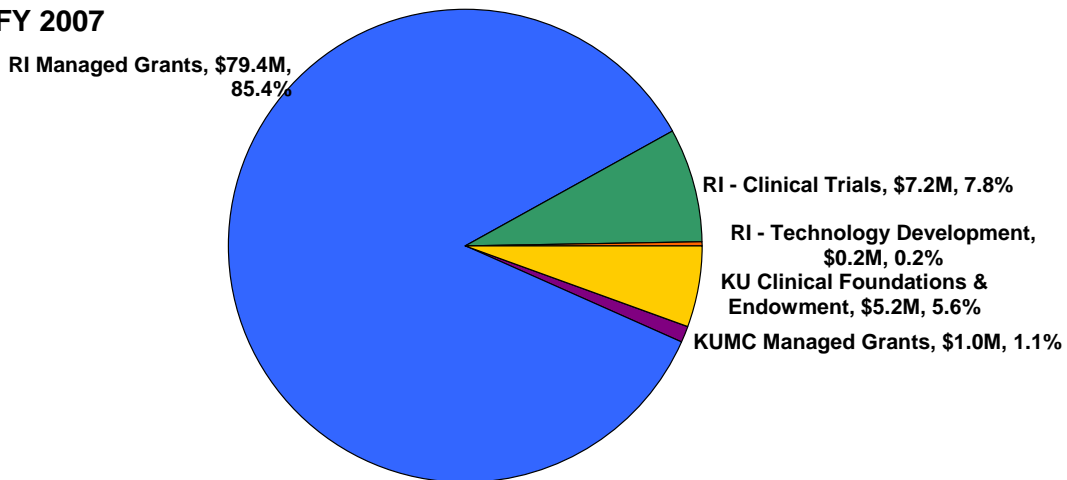
Extramural Awards

FY 2007 Extramural Awards Summary

In FY 2007, extramural awards (all sources including KUEA funds) totaled \$93,106,996, an increase of \$4,241,498 (4.8%) from \$88,865,498 in FY 2006. Total grant awards increased \$4,001,708 (5.2%) during this period from \$76,478,068 to \$80,479,776. Clinical Trials revenue increased \$1,349,006 (22.9%) from \$5,888,363 in FY 2006 to \$7,237,369 in FY 2007. Revenues from Technology development decreased \$55,599 (22.9%) from \$242,484 to \$186,885. Money from the Wichita Medical Practice Association and the KU Endowment Association decreased from \$6,256,583 in FY 2006 to \$5,202,966 in FY 2007, a drop of \$1,053,617 (16.8%). (See Table 1, next page, and Figure 1, below.)

Figure 1
FY 2006 and FY 2007 Extramural Award Summary
 (Million \$)

FY 2007



FY 2006

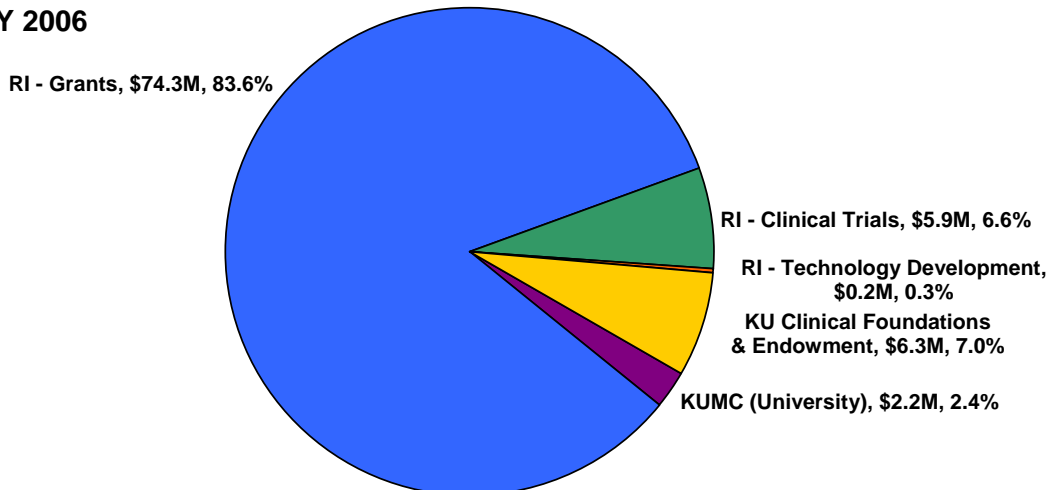


Table 1
The University of Kansas Medical Center
Summary of Awards from All Sources for FY 2006 – FY 2007

	<u>FY 2006</u>	<u>FY 2007</u>
<u>KUMC (University) Managed</u>	2,167,378	1,031,735
Grants	2,167,378	1,031,735
<u>KUMC Research Institute Managed</u>	80,441,537	86,872,295
Grants	74,310,690	79,448,041
Clinical Trials	5,888,363	7,237,369
Technology Development	242,484	186,885
Total KUMC (University) and KUMC Research Institute	82,608,915	87,904,030
Additional Sources of Extramural Awards Not Administered Through KUMC (University) or Research Institute*		
<u>KU Endowment Association</u>	4,825,341	3,906,939
Allied Health	59,998	22,947
Medicine	4,763,434	3,880,503
Nursing	1,909	3,489
<u>Medical Practice Association – Wichita</u>	1,431,242	1,296,027
Grants	1,370,725	1,263,117
Clinical Trials	60,517	32,910
Total Other Sources of Extramural Funding	6,256,583	5,202,966
Total of All Awards	88,865,498	93,106,996

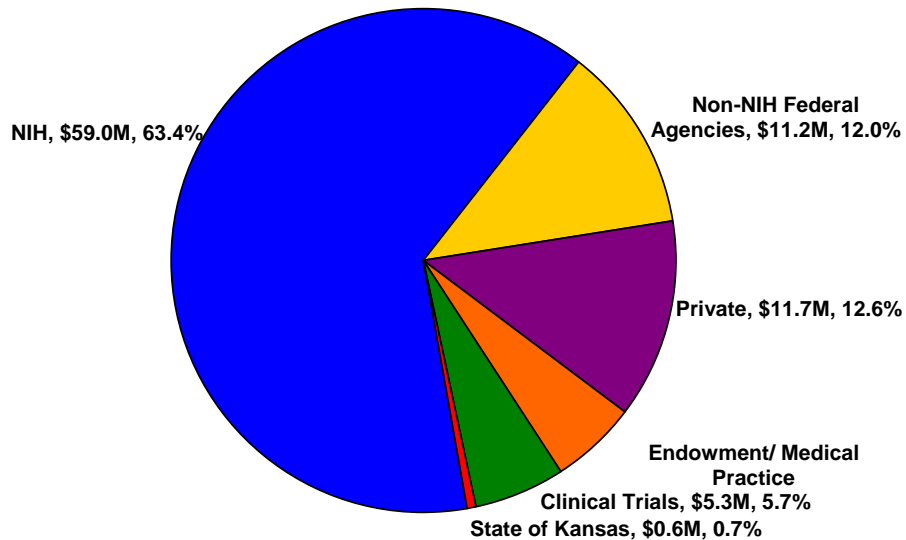
* Dollars are self-reported by each unit and may be underreported.

FY 2007 Awards by Funding Agency Type

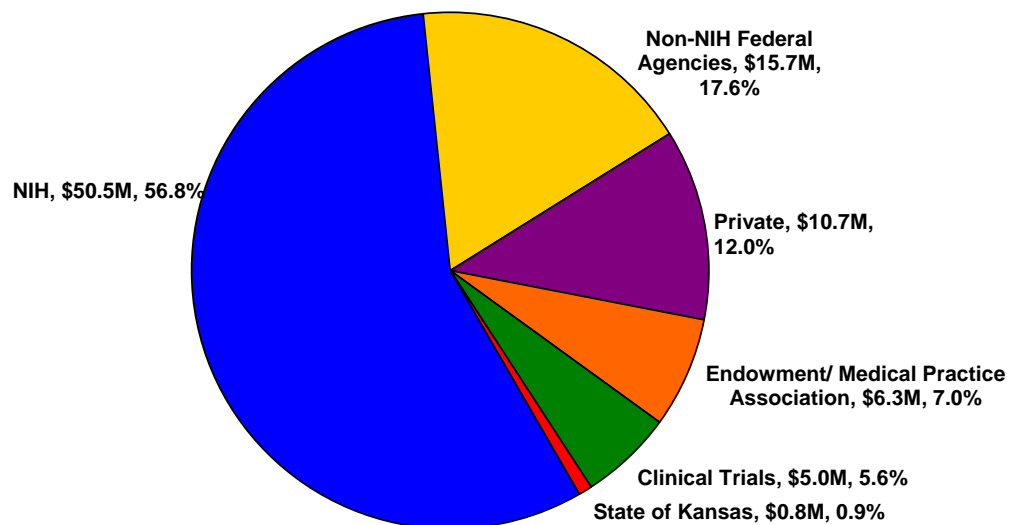
In FY 2007, funding from all agency types totaled \$93,106,996, an increase of \$4,241,498 (4.8%) from \$88,865,498 in FY 2006. NIH funding increased \$8,572,317 (17.0%) during this period from \$50,459,281 to \$59,031,598. Increases from FY 2006 to FY 2007 were also seen in privately funded grants (\$1,075,392 which is a 10.0% increase) and clinical trials (\$311,928 which is a 6.2% increase). However, other federal funding, funding from the state of Kansas, and funding from the KU Endowment and the Wichita Medical Practice Association all decreased from FY 2006 to FY 2007: \$4,496,396 (28.7%) funding decrease from other federal agencies, \$168,126 (20.7%) funding decrease from the state of Kansas, and \$1,053,617 (16.8%) funding decrease from the KU Endowment and the Wichita Medical Practice Association. (See Figure 2, below) Detail of FY 2007 departmental awards by funding agency is presented in Table 2 with Federal agencies specified in Table 3.

Figure 2
FY 2006 and FY 2007 Awards by Funding Agency Type
(Million \$)

FY 2007



FY 2006



**Table 2
FY 2007 Awards by Funding Agency Type**

	National Institutes of Health (Direct & Subcontract Awards)	Other Federal Agencies	State of Kansas	Private /Other Grant Awards	Clinical Trials	TOTAL	Number of Awards
KUMC Administration							
Area Health Education Centers				1,818		1,818	1
Center for Telemedicine & TeleHealth		1,194,275	70,956	9,980		1,275,211	6
Dykes Library	221,096		60,000			281,096	2
Medical Center Police		4,057				4,057	1
Research Administration				244,885	12,065	256,950	2
Student Services		43,273				43,273	2
KUMC Administration Total	221,096	1,241,605	130,956	256,683	12,065	1,862,405	14
School of Allied Health							
Clinical Laboratory Sciences	115,352					115,352	1
Dietetics & Nutrition	1,373,069	7,315		34,574	539,792	1,954,750	10
Health Information Management				8,598		8,598	1
Hearing & Speech	180,627			89,503		270,130	3
Nurse Anesthesia Education		18,096				18,096	1
Physical Therapy & Rehabilitation Sciences	157,158			407,529		564,687	11
Allied Health Total	1,826,206	25,411		540,204	539,792	2,931,613	27
School of Medicine – Kansas City Campus							
Administration	1,875,000	85,336		122,000		2,082,336	4
Basic Science Departments							
Anatomy & Cell Biology	9,031,769			854,726		9,886,495	34
Biochemistry & Molecular Biology	2,750,743	140,981		196,500		3,088,224	14
Biostatistics	172,789					172,789	2
Healthy Policy & Management		65,499				65,499	4
Microbiology, Molecular Genetics & Immunology	4,734,571	8,144		217,516		4,960,231	14
Molecular & Integrative Physiology	5,278,067			543,814		5,821,881	27
Pharmacology, Toxicology, & Therapeutics	6,746,286			856,371		7,602,657	34
Preventive Medicine	2,131,644	1,242,402		1,149,609		4,523,655	22
Basic Science Total	30,845,869	1,457,026		3,818,536		36,121,431	151
Clinical Departments							
Anesthesiology					217,423	217,423	6
Family Medicine	518,403	174,330		30,034		722,767	5
Internal Medicine	7,688,063			775,948	2,084,960	10,548,971	123
Neurology	1,474,746			417,674	1,582,568	3,474,988	80
Obstetrics & Gynecology	1,104,916	800,941		43,000	79,144	2,028,001	11
Ophthalmology					5,300	5,300	2
Otorhinolaryngology					3,000	3,000	1
Pathology & Laboratory Sciences	2,790,284			269,053		3,059,337	18
Pediatrics	618,797	4,421,952	393,198	584,015	129,177	6,147,139	36
Psychiatry & Behavioral Sciences	451,292			7,500	41,538	500,330	10
Radiation Oncology				150,000		150,000	1
Surgery General					81,493	81,493	6
Surgery Neurosurgery					24,150	24,150	5
Surgery Orthopedics	71,369					71,369	1
Surgery Urology	172,257	252,874		11,000	22,975	459,106	7
Total Clinical Departments	14,890,127	5,650,097	393,198	2,288,224	4,271,728	27,493,374	312
Centers							
Center for Child Health and Development		711,596				711,596	4
Center on Aging	1,498,434	239,301	118,209	729,819		2,585,763	14
General Clinical Research Center	2,314,235					2,314,235	1
Hoglund Brain Imaging Center	626,535			327,901		954,436	11
KS Intellectual & Dev Disab Res Center	1,820,905	99,000				1,919,905	5
Kansas Masonic Cancer Research Institute	167,214	109,225		14,247	207,365	498,051	25
Mid-America Cardiology				1,040	280,801	281,841	27
Centers Total	6,427,323	1,159,122	118,209	1,073,007	488,166	9,265,828	87
School of Medicine – KC Campus Total	54,038,319	8,351,581	511,407	7,301,767	4,759,894	74,962,968	554
School of Medicine – Wichita Campus							
Administration				75,000		75,000	1
Family & Community Medicine – Wichita	16,267	114,726		69,774		200,767	3
Internal Medicine – Wichita		159,294		3,000		162,294	2
Obstetrics & Gynecology – Wichita		22,256				22,256	1
Preventive Medicine – Wichita	9,237	470,992		151,500		631,729	10
Psychiatry – Wichita	56,576					56,576	1
School of Medicine – Wichita Campus Total	82,080	767,268		299,274		1,148,622	18
School of Medicine (KC & Wichita) Total	54,120,399	9,118,849	511,407	7,601,041	4,759,894	76,111,590	572
School of Nursing	2,863,897	792,667		3,341,858		6,998,422	27
Other Sources of Extramural Funding							
KU Endowment Association				3,906,939		3,906,939	
Medical Practice Association – Wichita				1,263,117	32,910	1,296,027	
Other Sources of Extramural Funding Total				5,170,056	32,910	5,202,966	
TOTAL	59,031,598	11,178,532	642,363	16,909,842	5,344,661	93,106,996	640

**Table 3
FY 2007 Federally Funded Awards by Funding Agency**

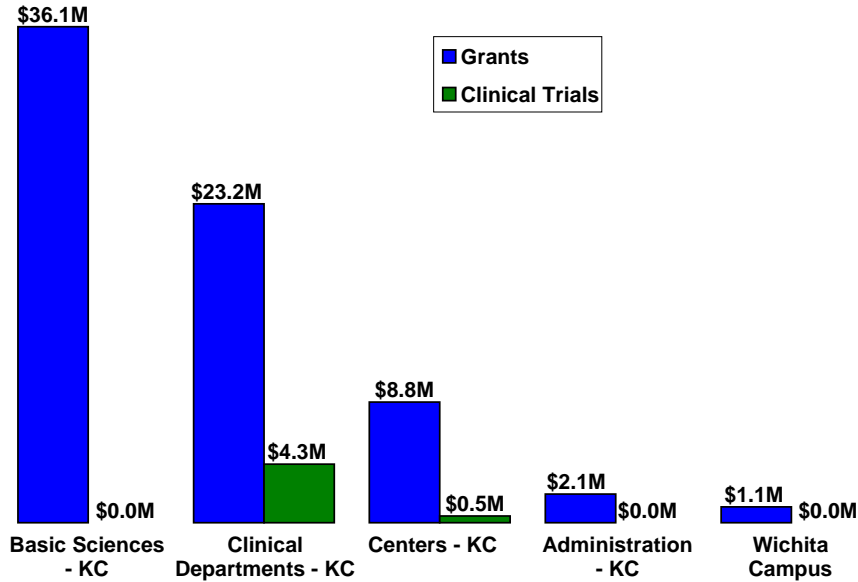
	NIH Direct Awards	NIH Clinical Trials	NIH Subcon- tracts	DHHS Direct Awards	DHHS Subcon- Tracts	DOEd Direct Awards	DOEd Subcon- tracts	DOD Direct Awards	DOD Subcon- tracts	CDC Direct Awards	CDC Subcon- tracts	Other Fed. Subcon- tracts
KUMC Administration												
Center for Telemedicine				1,150,000	44,275							
Dykes Library			221,096									
Medical Center Police												4,057
Student Services				43,273								
KUMC Administration Total			221,096	1,193,273	44,275							4,057
School of Allied Health												
Clinical Laboratory Sciences			115,352									
Dietetics & Nutrition	1,344,452		28,617		7,315							
Hearing & Speech	179,282		1,345									
Nurse Anesthesia Education				18,096								
Physical Therapy			157,158									
Allied Health Total	1,523,734		302,472	18,096	7,315							
School of Medicine – KC												
Administration	1,875,000				85,336							
Basic Science Departments												
Anatomy	8,894,921		136,848									
Biochemistry	2,440,165		310,578									140,981
Biostatistics	147,000		25,789									
Healthy Policy & Management					65,499							
Microbiology	4,719,389		15,182									8,144
Physiology	4,812,859		465,208									
Pharmacology	6,497,080		249,206									
Preventive Medicine	1,975,650		155,994		240,637						1,001,765	
Basic Science Total	29,487,064		1,358,805		306,136						1,001,765	149,125
Clinical Departments												
Family Medicine	518,403			169,330							5,000	
Internal Medicine	6,750,110	514,885	423,068									
Neurology	841,842	632,904										
Obstetrics & Gynecology	1,083,429	21,487			20,000					780,941		
Pathology	2,748,350		41,934									
Pediatrics	289,829	277,285	51,683	1,976,211	1,390,022	1,023,591	32,128					
Psychiatry	127,211	324,081										
Surgery Orthopedics	71,369											
Surgery Urology			172,257					252,874				
Total Clinical Departments	12,430,543	1,770,642	688,942	2,145,541	1,410,022	1,023,591	32,128	252,874	780,941	5,000		
Centers												
Center for Child Health & Dev				558,227	129,600		12,052					11,717
Center on Aging	1,498,434			239,301								
General Clinical Research Center	2,314,235											
Hoglund Brain Imaging Center	626,535											
KS Intell & Dev Disab Res Center	1,303,643		517,262									
KS Masonic Cancer Res Institute		98,400	68814						99,000			
Centers Total	5,742,847	98,400	586,076	797,528	129,600		12,052		132,810		75,415	11,717
School of Medicine – KC Total	49,535,454	1,869,042	2,633,823	2,943,069	1,931,094	1,023,591	44,180	252,874	132,810	780,941	1,082,180	160,842
School of Medicine – Wichita												
Family Medicine – Wichita			16,267	114,726								
Internal Medicine – Wichita					159,294							
Obstetrics & Gynecology - Wichita					22,256							
Preventive Medicine – Wichita			9,237	246,172							220,500	4,320
Psychiatry – Wichita		56,576										
SOM – Wichita Total		56,576	25,504	114,726	427,722						220,500	4,320
School of Medicine Total	49,535,454	1,925,618	2,659,327	3,057,795	2,358,816	1,023,591	44,180	252,874	132,810	780,941	1,302,680	165,162
School of Nursing	2,717,364		146,533	202,140	382,478			208,049				
TOTAL	53,776,552	1,925,618	3,329,428	4,471,304	2,792,884	1,023,591	44,180	460,923	132,810	780,941	1,302,680	169,219

FY 2007 Awards by School

School of Medicine

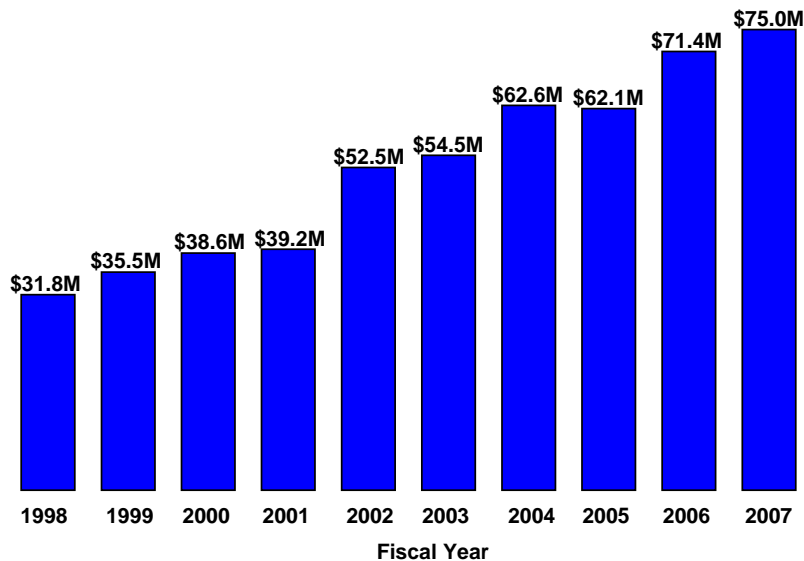
Awards for the School of Medicine for FY 2007 totaled \$76,111,590, a 4.4% increase from the \$72,884,016 awarded for FY 2006 (see Figure 3).

Figure 3
School of Medicine Awards for FY 2007 by Grants and Clinical Trials
(Million \$)



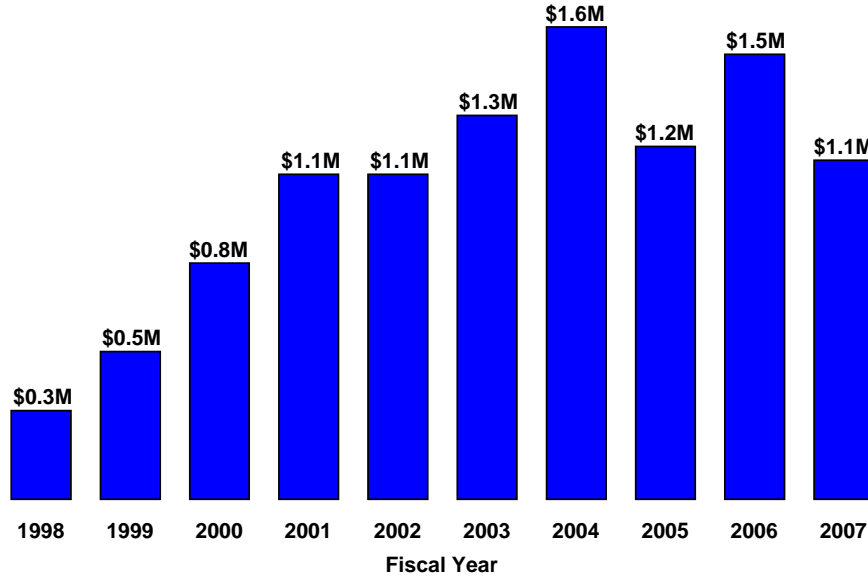
Research grant awards for FY 2007 for the **School of Medicine's Kansas City Campus** had a total dollar value of \$74,962,968, a 5.0% increase from the \$71,376,885 awarded for FY 2006 (see Figure 4).

Figure 4
School of Medicine – KC Awards for FY 1998 - FY 2007
(Million \$)



Awards for the **School of Medicine's Wichita Campus** totaled for FY 2007, a 23.8% decrease from the \$1,507,131 in awards for FY 2006 (see Figure 5).

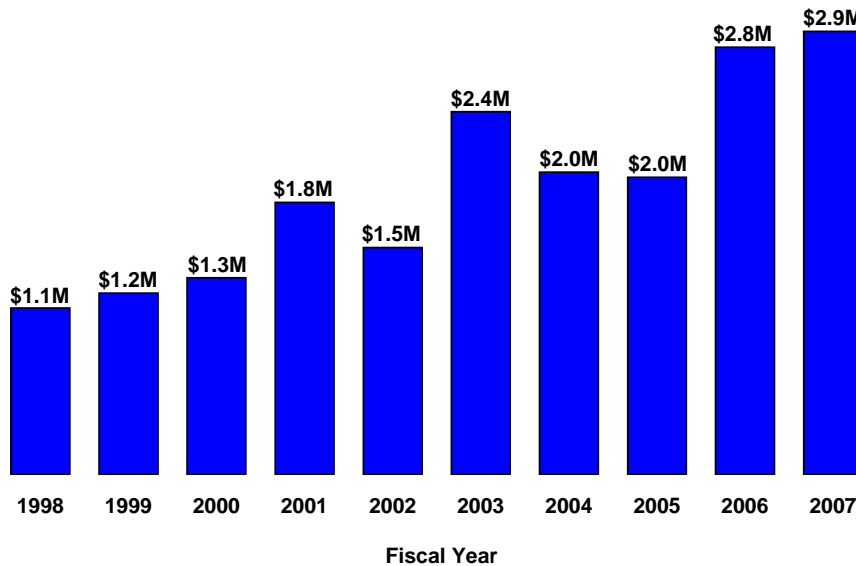
Figure 5
School of Medicine – Wichita Awards for FY 1998 - FY 2007
 (Million \$)



School of Allied Health

Total awards for the School of Allied Health in FY 2007 were \$2,931,613, a 3.7% increase from the \$2,826,662 awarded in FY 2006 (see Figure 6).

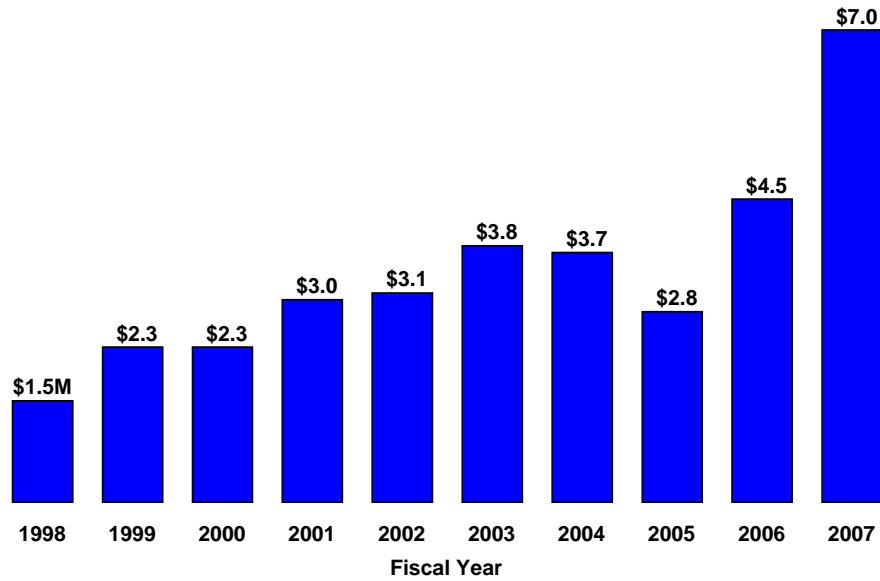
Figure 6
School of Allied Health Awards for FY 1998 - FY 2007
 (Million \$)



School of Nursing

Total awards for the School of Nursing in FY 2007 were \$6,998,422, a 55.9% increase from the \$4,490,110 in awards for FY 2006 (see Figure 7).

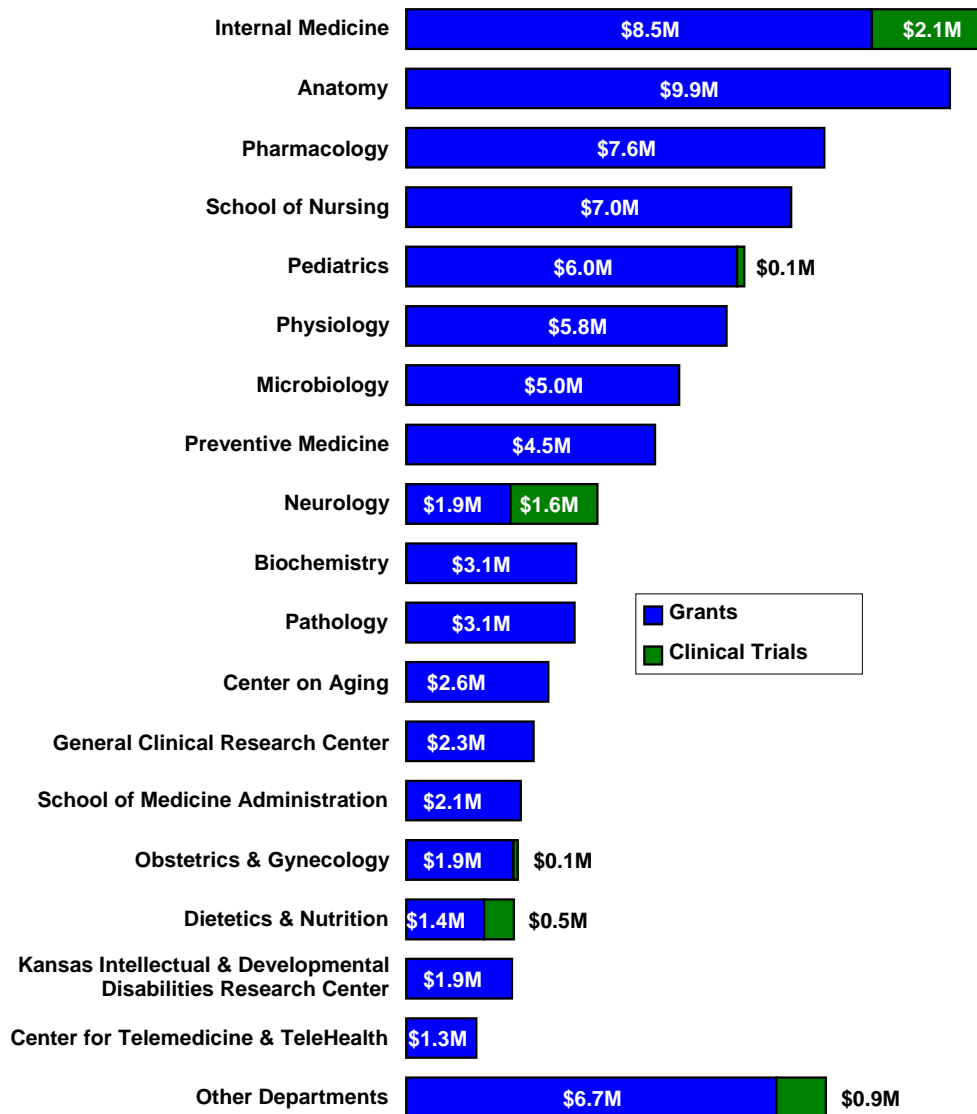
Figure 7
School of Nursing Awards for FY 1998 – FY 2007
(Million \$)



Departments with Highest Total Award Dollars

Eighteen departments (including the School of Nursing, which is not broken down into departments) had at least \$1 million in FY 2007 awarded dollars. The top four departments account for \$35.0 million in awards: Internal Medicine (\$10.5M); Anatomy & Cell Biology (\$9.9M); Pharmacology, Toxicology, and Therapeutics (\$7.6M); and the School of Nursing (\$7.0M) (see Figure 8).

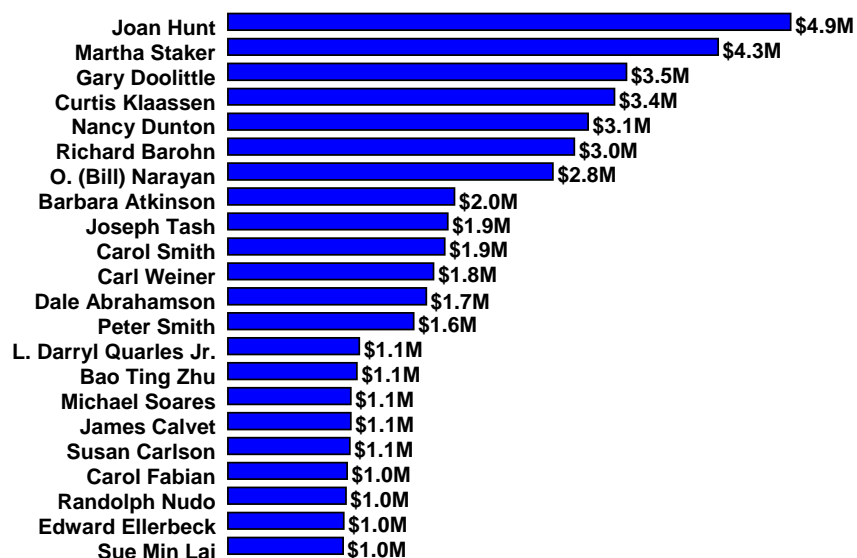
Figure 8
Departments with Highest Total Award Dollars (Grants and Clinical Trials) in FY 2007
(Million \$)



Principal Investigators with Highest Total Award Dollars

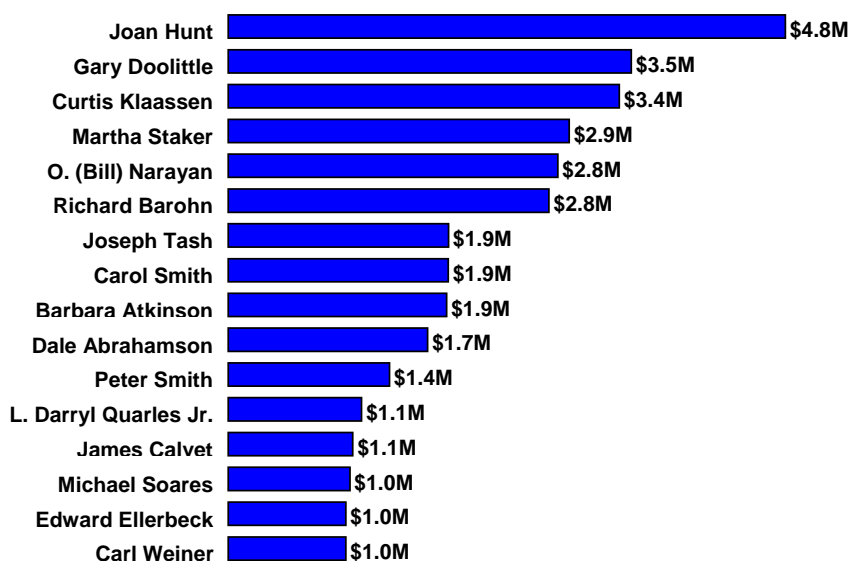
Twenty-two principal investigators had total award dollars over \$1 million for FY 2007, including six principal investigators with total extramural funds in excess of \$3 million: Joan Hunt, Martha Staker, Gary Doolittle, Curtis Klaassen, Nancy Dunton, and Richard Barohn. These principal investigators and their total award amounts are listed in Figure 9, below.

Figure 9
Principal Investigators with FY 2007 Extramural Awards Totaling Over \$1 Million
(Million \$)



The sixteen principal investigators with Department of Health and Human Services (DHHS) award dollars totaling at least \$1 million are listed in Figure 10, below.

Figure 10
Principal Investigators with FY 2007 Department of Health and Human Services Awards
Totaling at Least \$1 Million
(Million \$)



NIH Rankings

The latest NIH rankings are for FY 2006. NIH rankings for the three KUMC schools for FY 2001 - FY 2006 compared with all institutions in those categories are depicted in Table 4, below. (Note: All figures listed below reflect the Federal Fiscal Year, which runs from October 1 through September 30. KUMC's Fiscal Year is from July 1 through June 30.)

NIH rankings for FY 2006 for KUMC are as follows:

- The KUMC School of Allied Health ranked 8th among all institutions with \$1.6 M from seven NIH awards.
- The KUMC School of Medicine ranked 75th among all institutions with \$36.9M from ninety-five NIH awards.
- The KUMC School of Nursing ranked 19th among all institutions with \$2.2M from six NIH awards.

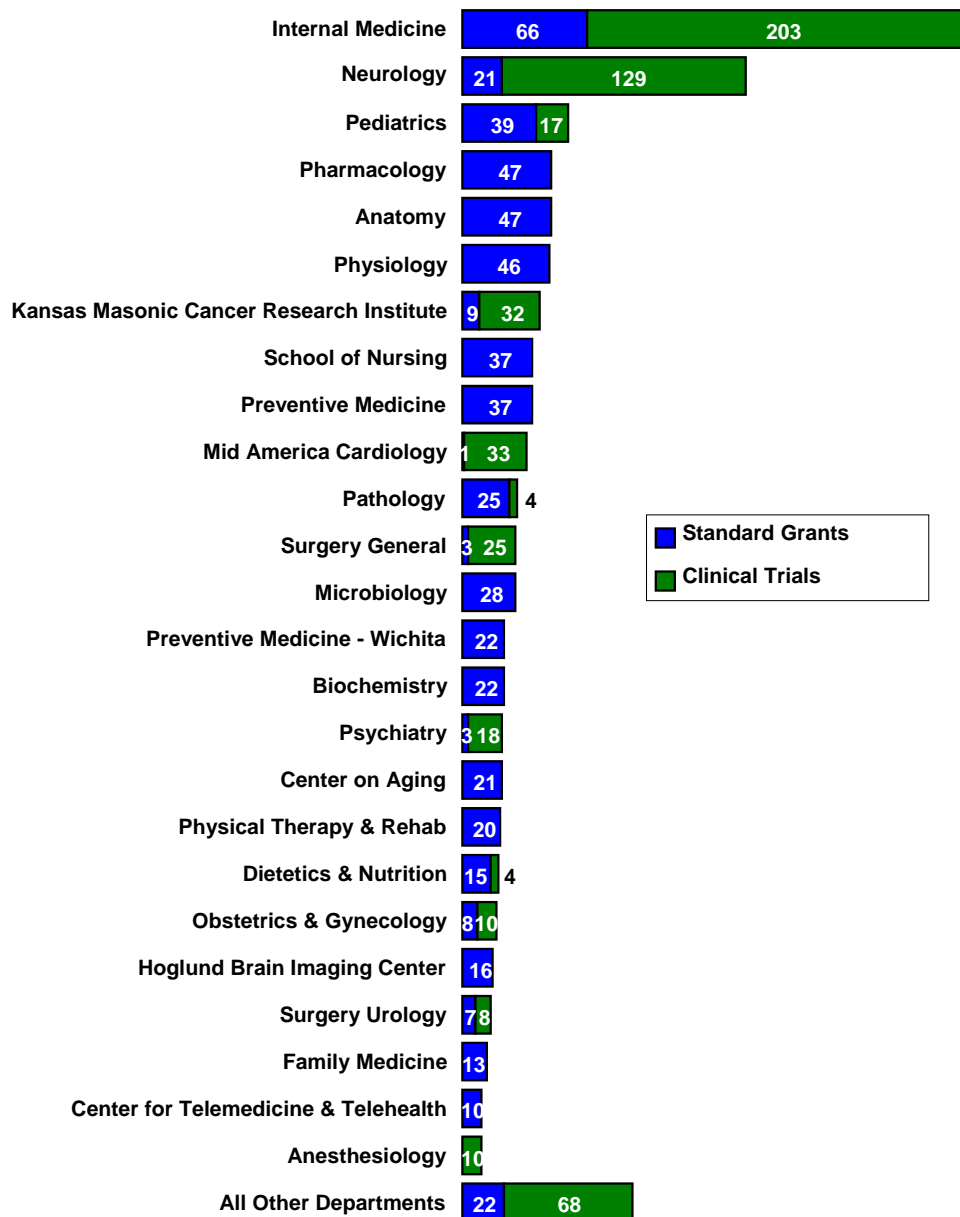
Table 4
NIH Ranking by School, Federal FY 2001 – FY 2006

	Total # of NIH Awards	Total NIH \$ Awarded	School Rank (all institutions)
School of Allied Health			
2001	1	\$0.247M	21
2002	1	\$0.247M	26
2003	4	\$0.569M	15
2004	5	\$0.599M	17
2005	6	\$1.050M	14
2006	7	\$1.613M	8
School of Medicine			
2001	104	\$32.300M	71
2002	99	\$34.759M	73
2003	95	\$36.537M	74
2004	84	\$34.292M	77
2005	85	\$33.412M	81
2006	95	\$36.884M	75
School of Nursing			
2001	2	\$0.651M	40
2002	3	\$1.282M	33
2003	4	\$1.666M	24
2004	4	\$1.489M	29
2005	3	\$0.924M	40
2006	6	\$2.168M	19

Awards (Grants and Clinical Trials) Managed in FY 2007

The Research Institute managed 585 grants and 561 clinical trials (total of 1,146 active awards) during FY 2007. Figure 11, below, shows the number of grants and clinical trials managed by department (for departments with 10 or more managed grants). Two departments lead in terms of managed awards, Internal Medicine with 269 and Neurology with 150, due to open clinical trials. The 25 departments with the highest number together account for 92% (1056) of all managed awards. The remaining 30 departments together account for a total of 22 active grants and 68 clinical trials.

Figure 11
Grants and Clinical Trials Managed by the Research Institute During FY 2007 by Department



P r o p o s a l s

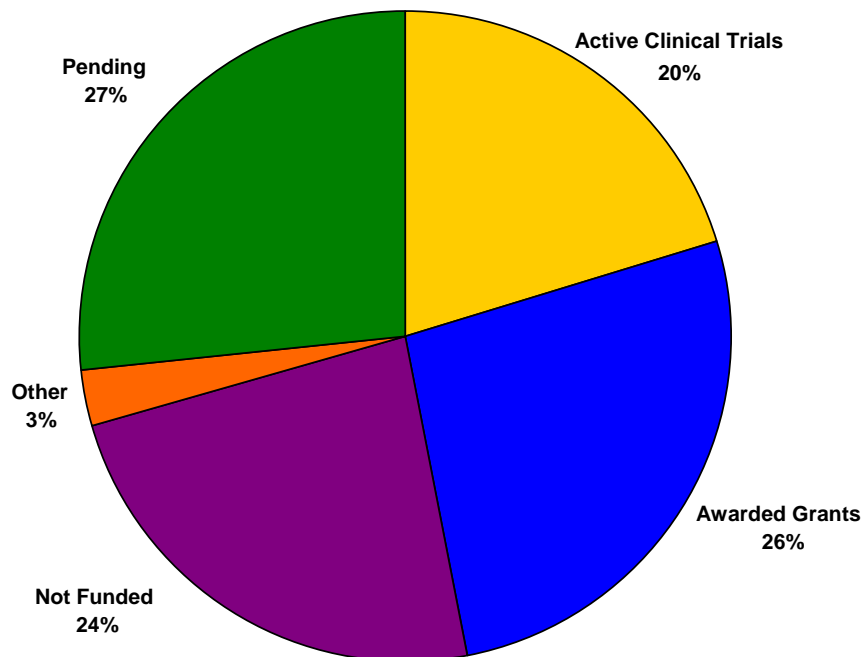
Proposals Submitted During FY 2007

In FY 2007, 651 proposals were submitted, an increase of 4.5% from the 623 proposals submitted in FY 2006. Dollars requested by non-clinical trial proposals in FY 2006 totaled \$280,153,027, a decrease of 21.1% from the \$354,940,018 requested in FY 2006. Direct costs requested (excluding clinical trials) decreased 21.5% from \$264,995,683 in FY 2006 to \$207,903,729 in FY 2007, while indirect costs requested decreased 19.7% from \$89,965,335 in FY 2006 to \$72,249,298 in FY 2007. Requested direct and indirect costs for non-clinical trial proposals submitted in FY 2007 are listed in Table 5 by department.

Status of Proposals Submitted During FY 2007

Figure 12, below, shows the status of the 651 proposals submitted during FY 2007 as of 12/20/2007. As of that date, 46% had already been funded (26% awarded grants and 20% active clinical trials). Three out of ten (27%) were pending, under review, or under development. One quarter of the proposals were not funded (24%). The remaining three percent of proposals were withdrawn or otherwise removed from consideration.

Figure 12
Status as of 12/20/2007 of Proposals Submitted During FY 2007



**Table 5
Direct and Indirect Requested Costs for Grant Proposals
Submitted in FY 2007 by Department**

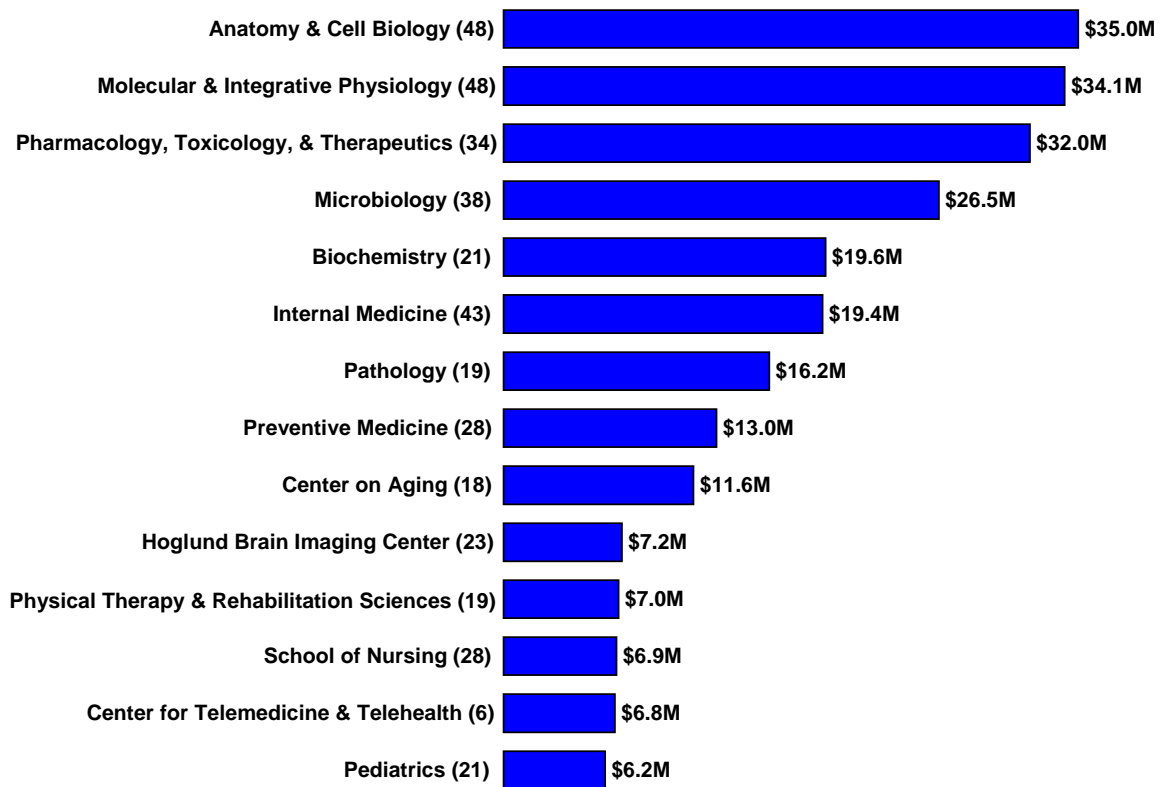
	Requested Direct Costs	Requested Indirect Costs	Requested Total Costs	Number of Proposals
KUMC Administration				
Center for Telemedicine & TeleHealth	6,378,988	393,391	6,772,379	6
Dykes Library	60,000		60,000	1
Student Services	43,273		43,273	2
KUMC Administration Total	6,482,261	393,391	6,875,652	9
School of Allied Health				
Administration	6,915	692	7,607	1
Dietetics & Nutrition	1,503,970	639,158	2,143,128	6
Hearing & Speech	1,621,240	616,865	2,238,105	2
Nurse Anesthesia Education	16,046		16,046	1
Occupational Therapy Education	777,703	22,297	800,000	1
Physical Therapy & Rehabilitation Sciences	5,132,309	1,856,364	6,988,673	19
Allied Health Total	9,058,183	3,135,376	12,193,559	30
School of Medicine – Kansas City Campus				
Administration	179,753	5,583	185,336	2
Basic Science Departments				
Anatomy & Cell Biology	24,506,600	10,445,779	34,952,379	48
Biochemistry & Molecular Biology	13,464,522	6,134,568	19,599,090	21
Biostatistics	103,389	45,485	148,874	2
Healthy Policy & Management	896,923	145,057	1,041,980	9
Microbiology, Molecular Genetics & Immunology	18,446,158	8,019,989	26,466,147	38
Molecular & Integrative Physiology	25,129,880	8,998,027	34,127,907	48
Pharmacology, Toxicology, & Therapeutics	22,655,473	9,359,725	32,015,198	34
Preventive Medicine	9,885,724	3,065,819	12,951,543	28
Basic Science Total	115,088,669	46,214,449	161,303,118	228
Clinical Departments				
Family Medicine	1,890,034	164,903	2,054,937	12
Internal Medicine	14,174,855	5,231,577	19,406,432	43
Neurology	2,560,743	578,599	3,139,342	16
Obstetrics & Gynecology	1,633,000	763,750	2,396,750	4
Otorhinolaryngology	2,616,907	681,920	3,298,827	8
Pathology & Laboratory Sciences	11,918,105	4,236,039	16,154,144	19
Pediatrics	5,279,734	905,414	6,185,148	21
Psychiatry & Behavioral Sciences	1,738,751	648,655	2,387,406	6
Radiation Oncology	2,351,334	673,390	3,024,724	4
Surgery General	2,599,734	443,013	3,042,747	5
Surgery Orthopedics	1,161,735	540,376	1,702,111	2
Surgery Urology	1,183,546	476,887	1,660,433	7
Total Clinical Departments	49,108,478	15,344,523	64,453,001	147
Centers				
Center for Biostatistics & Bioinformatics	1,546,742	726,969	2,273,711	1
Center for Child Health & Development	9,565	2,487	12,052	1
Center on Aging	9,420,728	2,135,511	11,556,239	18
Hoglund Brain Imaging Center	5,202,069	1,992,977	7,195,046	23
Kansas Intellectual & Developmental Disabilities Research Center	1,589,538	122,750	1,712,288	2
Kansas Masonic Cancer Research Institute	351,520	70,843	422,363	4
Centers Total	18,120,162	5,051,537	23,171,699	49
School of Medicine – KC Campus Total	182,497,062	66,616,092	249,113,154	426
School of Medicine – Wichita Campus				
Administration – Wichita	75,000		75,000	1
Family & Community Medicine – Wichita	455,127	36,410	491,537	1
Internal Medicine – Wichita	1,176,568	345,941	1,522,509	1
Obstetrics & Gynecology - Wichita	653,565	262,549	916,114	3
Preventive Medicine – Wichita	1,666,011	431,087	2,097,098	11
School of Medicine – Wichita Campus Total	4,026,271	1,075,987	5,102,258	17
School of Medicine (KC & Wichita) Total	186,523,333	67,692,079	254,215,412	443
School of Nursing	5,839,952	1,028,452	6,868,404	28
TOTAL	207,903,729	72,249,298	280,153,027	510

Departments with Highest Total Requested Dollar Submissions

The requested dollar amounts included in research grant proposals submitted during FY 2007 for fourteen departments (counting the School of Nursing as a single department), which requested five million or more dollars, totaled \$241.2 million, or 86.1% of the total dollars requested in FY 2007. These departments, together with the total amounts of their grant submissions and the number of proposals submitted by department, are presented in Figure 13, below.

Figure 13
Research Grant Proposals and Requested Dollars Submitted in FY 2007
Totaling More Than \$5,000,000 by Department
(Million \$)

(Note: The number of proposals submitted by each department is in parentheses)

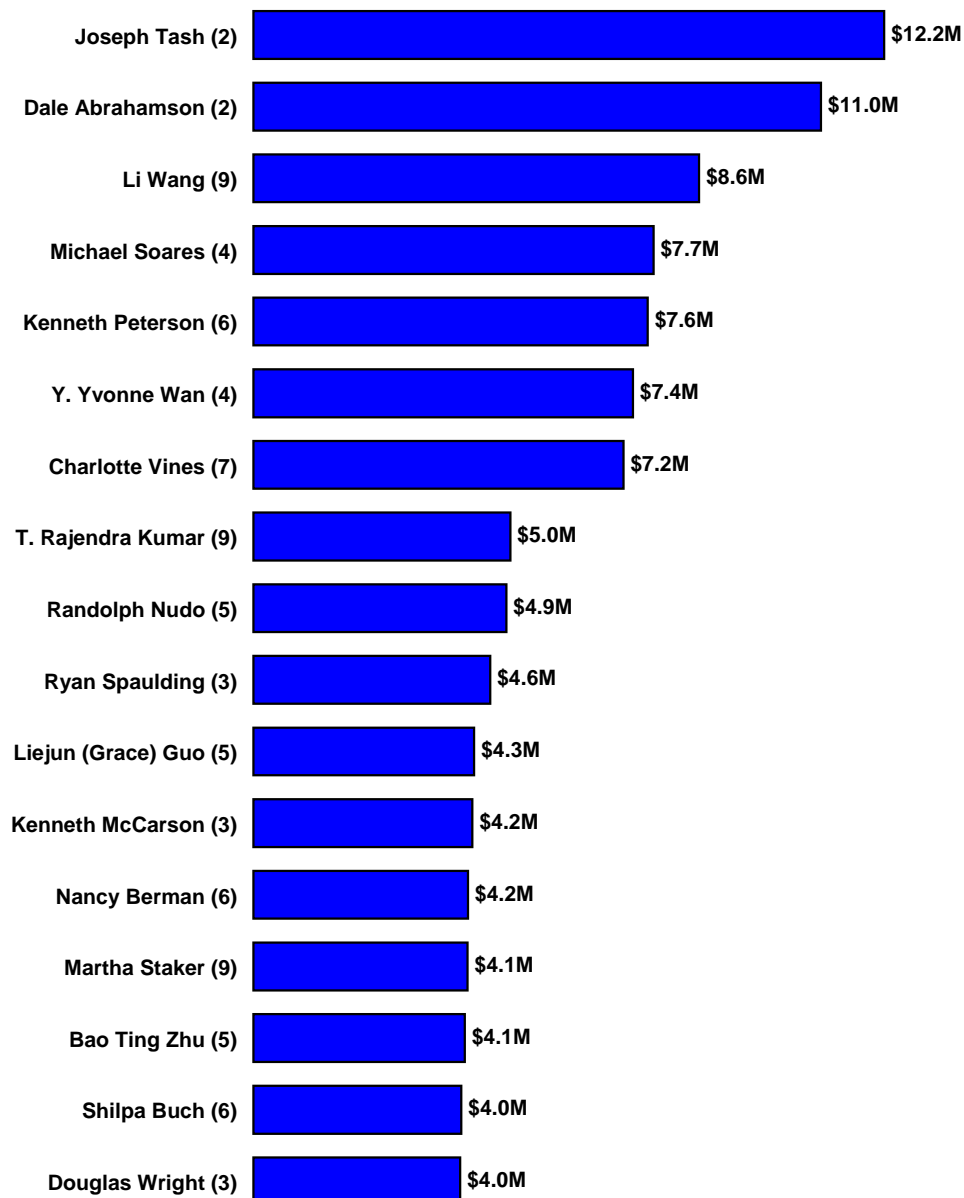


Principal Investigators with Highest Total Requested Dollar Submissions

The seventeen principal investigators that each submitted four million or more in total requested dollars together requested \$105.1 million in FY 2007. This represents 37.5% of all dollars requested in proposals during FY 2007. These principal investigators are listed in Figure 14, below, together with the total amount of funding they requested. Two researchers submitted proposals in excess of \$10 million: Dale Abrahamson (\$11.0 million) and Joseph Tash (\$12.2 million). In all, 222 principal investigators submitted proposals for funding in FY 2007.

Figure 14
Requested Dollar Amounts for Research Grant Proposals Submitted in FY 2007
Totaling More Than \$4,000,000 by Principal Investigator
(Million \$)

(Note: Number of proposals is in parentheses)



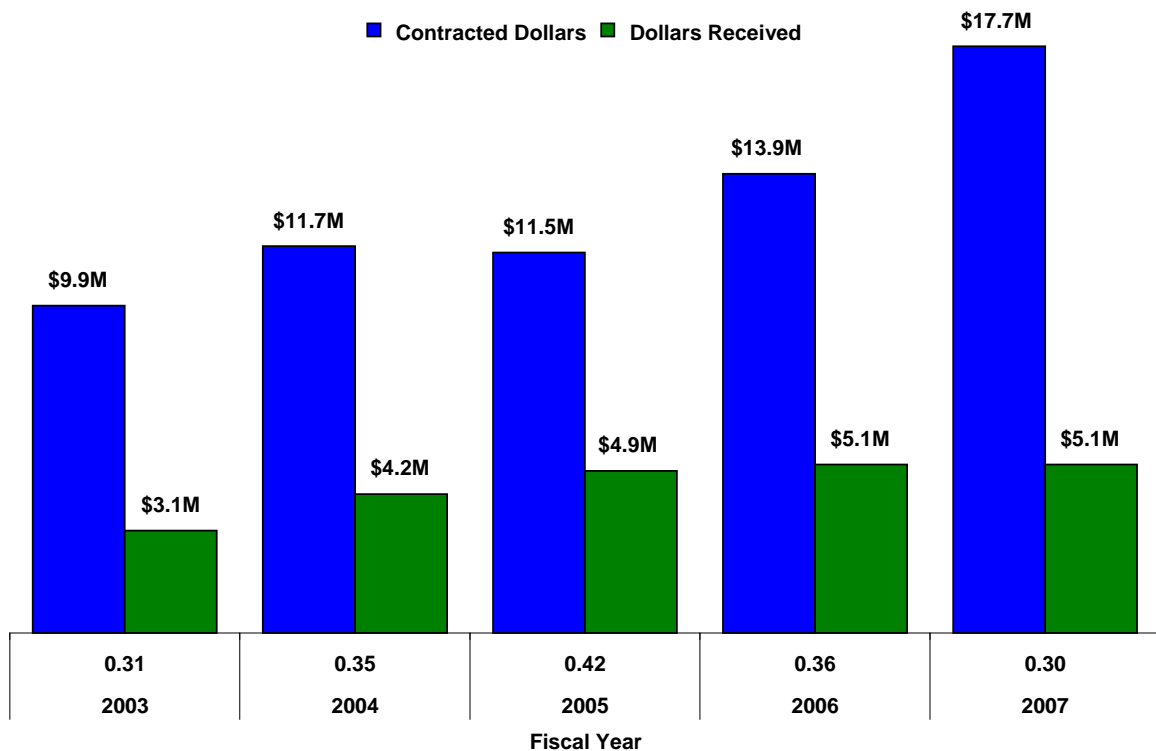
Clinical Research Contracts

Clinical Research Dollars Contracted and Received

Contracted dollars for FY 2007 for the Clinical Research Administration totaled \$17,743,819, an increase of \$3,855,727 (27.8%) from FY 2006. Dollars received increased from \$5,064,496 in FY 2006 to \$5,311,751 in FY 2007, an increase of \$247,255 (4.9%). The percent of contracted dollars received decreased from 36.5% in FY 2006 to 29.9% in FY 2007.

Figure 15 and Table 6 show the relationship between dollars contracted and received by the Clinical Research Administration. Over the last five years, the amount of contracted dollars increased from \$9.9 million to \$17.7 million while the dollars received increased during the same time period from \$3.1 million to \$5.1 million.

Figure 15
Clinical Research Administration Dollars Contracted and Received, FY 2003 - FY 2007
(Million \$)



The top two departments, in terms of dollars contracted, were Internal Medicine with \$8.3 million and Neurology with \$2.7 million in contracted dollars for new clinical trials. (See Figure 16 and Table 7)

Table 6
Clinical Research Administration (CRA) Division Year-End Summary
FY 2003-FY 2007

	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
Contracted Dollars					
Protocols/synopses reviewed	275	269	290	284	224
Total CRA managed studies	236	260	393	437	446
Trials managed (includes studies in set-up phase)	236	260	274	301	364
Oncology Group studies	*	*	119	136	82
New contracts signed	98	104	111	112	105
Amended contracts signed	15	12	23	34	27
Contracted dollars	\$9,942,161	\$11,740,623	\$11,521,247	\$13,888,092	\$17,743,820
Dollars received	\$3,064,797	\$4,247,797	\$4,888,402	\$5,064,496	\$5,311,751
HSC Submissions					
Total new submissions	104	109	105	118	106
Average new submissions per month	9	9	9	10	9
Total post-award submissions (renewals, adverse events, advertisements, and amendments)	2621	2794	2984	2684	1910
Average post-award submissions per month	219	233	249	224	159
Clinical Trials Education					
CTELS presented (lecture series)	8	10	9	9	5
Average CTELS attendance	39	30	50	44	49
Study coordinators (approximate)	90	100	105	109	113
PIs working with division (approximate)	85	85	97	107	112
Marketing					
Potential studies sent by RI	91	79	79	68	58
Physicians listed on Centerwatch	52	52	54	68	46
Quality Improvement (monitoring for education purposes)					
Monitoring visits (for CT staff training only)	1	0	2	3	1

Figure 16
Clinical Trials Contracted Dollars by Department for FY 2007

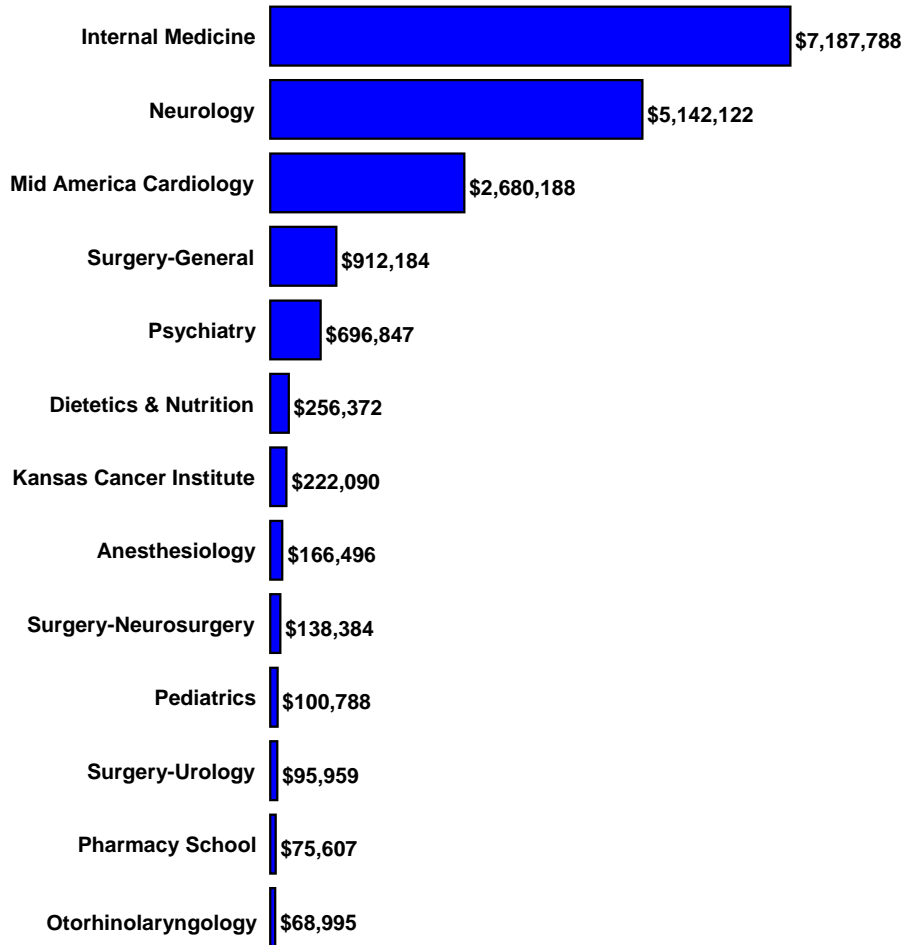


Table 7
Clinical Trials Contracted Dollars Detail by Department for FY 2007

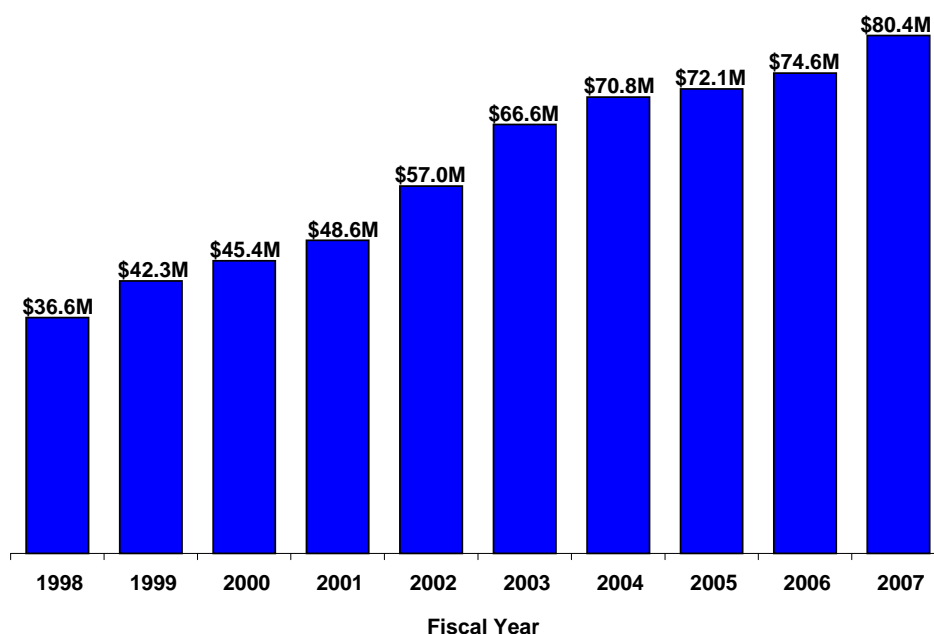
Department	Total Subject Dollars	IRB Fee	Other Fees	Total Contracted Dollars
Anesthesiology	161,696	2,300	2,500	166,496
Dietetics & Nutrition	255,072	1,300	0	256,372
Internal Medicine	6,999,776	93,900	94,112	7,187,788
Kansas Cancer Institute	212,930	4,600	4,560	222,090
Mid America Cardiology	2,642,790	19,950	17,448	2,680,188
Neurology	5,076,669	37,850	27,603	5,142,122
Otorhinolaryngology	61,345	4,000	3,650	68,995
Pediatrics	92,976	4,000	3,812	100,788
Pharmacy School	73,607	2,000	0	75,607
Psychiatry	672,842	12,800	11,205	696,847
Surgery – General	900,384	6,000	5,800	912,184
Surgery – Neurosurgery	119,212	10,600	8,573	138,385
Surgery - Urology	92,459	2,000	1,500	95,959
TOTAL	17,361,758	201,300	180,763	17,743,821

Extramural Expenditures

Extramural Expenditures

Total extramural expenditures for FY 2007 were \$80,388,712, an increase of 7.8% from the \$74,561,756 expended in FY 2006. (See Figure 17) Expenditures have more than doubled in the eight years since FY 1999. (Note: These amounts include funds on deposit with the Research Institute and KUMC, but do not include other Institution expenditures.)

Figure 17
Total Extramural Expenditures, FY 1998 – FY 2007
(Million \$)



Expenditures by Funding Source

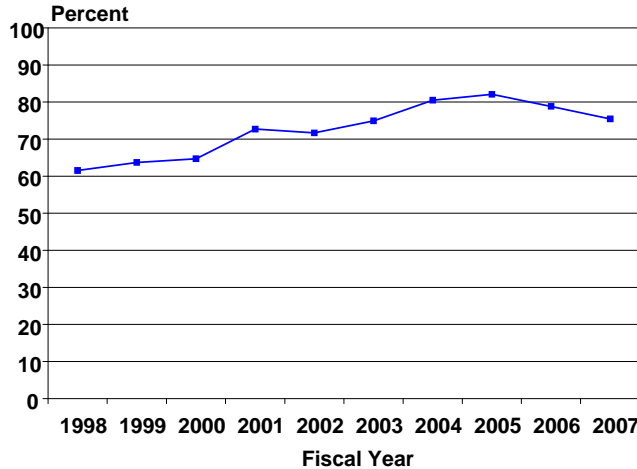
Table 8 shows total extramural expenditures by funding source for the ten years ending with FY 2007.

Table 8
Total Extramural Expenditures by Funding Source, FY 1998 - FY 2007
(Thousand \$)

Fiscal Year	Federal Government	State & Local Governments	Industry	Not-for-Profit & Other	Total
FY 2007	60,653	94	5,532	14,109	80,388
FY 2006	58,785	125	5,452	10,201	74,563
FY 2005	59,176	34	5,273	7,606	72,089
FY 2004	56,997	201	3,761	9,862	70,821
FY 2003	49,863	2,639	5,461	8,599	66,562
FY 2002	40,865	3,391	3,573	9,190	57,019
FY 2001	35,338	2,890	1,589	8,782	48,599
FY 2000	29,389	3,564	7,861	4,615	45,429
FY 1999	26,944	2,713	7,710	4,930	42,297
FY 1998	22,522	2,290	4,777	7,015	36,604

Federal funds comprised 75.5% of the total extramural expenditures for FY 2007. This percentage was generally increasing between FY 1998 and FY 2005, but had declined in both FY 2006 and FY 2007. See Figure 18, below.

Figure 18
Federal Funds as a Percent of Total Extramural Expenditures, FY 1998 - FY 2007

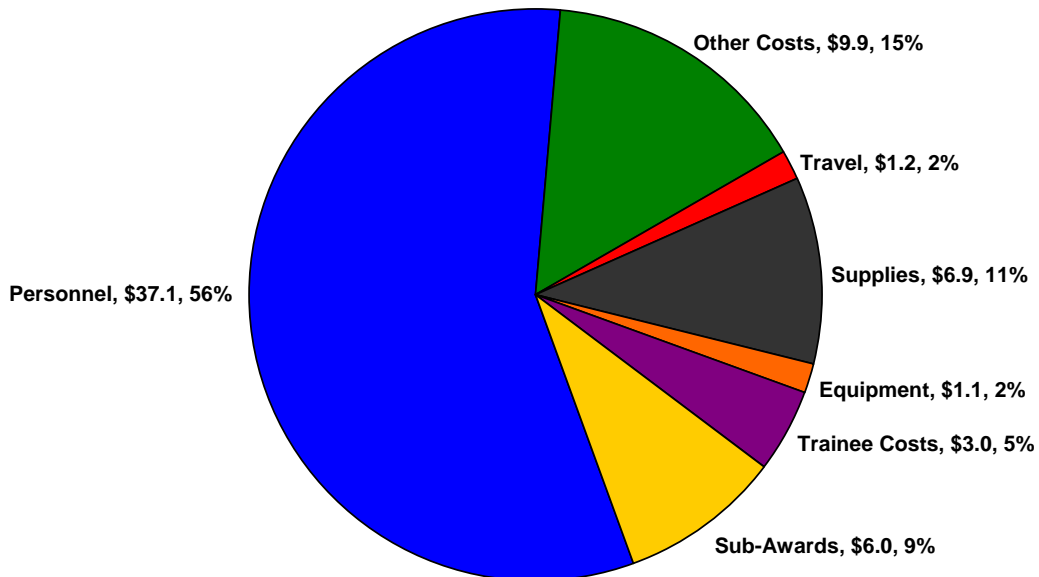


Direct and Indirect Costs

For FY 2007, direct costs totaled \$65,155,355 (81.1%) and indirect costs totaled \$15,233,358 (18.9%).

The categories of direct costs are detailed in Figure 19. Personnel costs accounted for nearly half (46%) of direct expenditures in FY 2007. Supplies, sub-awards, trainee costs, equipment, and travel accounted for 23% (9%, 7%, 4%, 1%, and 1%, respectively). A variety of other costs comprised the remaining 12%.

Figure 19
FY 2007 Direct Costs by Category



S t a f f

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