

STRONGER by DEGREES



MEETING AGENDA

Lung Cancer Research Governance Board Wednesday, August 30, 2017 Conference Room A and ZOOM Video Conferencing

The Council on Postsecondary Education is Kentucky's statewide postsecondary and adult education coordinating agency charged with leading the reform efforts envisioned by state policy leaders in the *Kentucky Postsecondary Education Improvement Act of 1997*. The Council does not discriminate on the basis of race, color, national origin, sex, religion, age, or disability in employment or the provision of services, and provides, upon request, reasonable accommodation, including auxiliary aids and services necessary to afford individuals with disabilities an equal opportunity to participate in all programs and activities.

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AGENDA

Kentucky Lung Cancer Research Program Governance Board

Council on Postsecondary Education Wednesday, August 30, 2017 2:00 PM Conference Room A and ZOOM Video Conferencing

1. Welcome and Roll Call	
2. ACTION - Approval of Minutes, July 12, 2017	3
3. Cash Activity Report and FY 17 End of Year Report	5
4. ACTION - FY17 Annual Report to the Governor	7
a. UK - Markey Cancer Center Annual Report	8
b. UofL - James Graham Brown Cancer Center Annual Report	17
5. Adjourn	

Next Meeting Date - November 8, 2017

To comply with state open meeting rules, members attending must participate in person or by video conference.

To participate via video conferencing, visit the following link: https://zoom/us/j/519500593

or

Dial: (646) 876-9923 (US Toll) or (408) 638-0968 (US Toll) Meeting ID: 519 500 593

Kentucky Lung Cancer Research Program Governance Board

July 12, 2017 Meeting Minutes

The Kentucky Lung Cancer Research Program Governance Board met via Zoom video conferencing on Wednesday, July 12, 2017, at 3:00 p.m., ET, at the Council on Postsecondary Education, Conference Room C, Frankfort, Kentucky. Travis Powell presided over the meeting.

WELCOME AND ROLL CALL

The meeting of the KLCRP Governance Board was called to order by Travis Powell. Roll Call was taken and the following members were present: Amtullah Khan (Zoom), Don Miller (Zoom), Tim Mullett (Zoom), Dan Flanagan, and Jason Chesney (conference line only). Mark Evers and Rajan Joshi were absent.

Others present were: Kris Damron, Dianne Konzen, Nathan Vanderford, Travis Powell, Rebecca Bowman and Debbie Weakly.

APPROVAL OF MINUTES

Travis Powell called for a motion to approve the minutes of March 15, 2017. A motion was made by Don Miller and seconded by Dan Flanagan. The motion was approved.

Travis called for a motion to approve the minutes of June 14, 2017. A motion was made by Don Miller and seconded by Dan Flanagan. The motion was approved.

CASH ACTIVITY REPORT

Rebecca referred to the Cash Activity Report and stated that all FY16-17 funds were received in April and all invoices received been paid before the June 1 deadline in accordance with the timeline. UK's cash balance forward is related to their grant allocations and are paid as they are approved and invoiced by UK. The recent agency budget cut imposed by the Governor did not impact the Lung Cancer funds.

2017-18 BUDGET PROPOSALS

Nathan Vanderford presented the budget for UK and stated it provided more detail than previously which would assist with the year end audit.

Travis called for a motion to approve the UK 2017-18 Budget Proposal. A motion was made by Don Miller and seconded by Dan Flanagan. The motion was approved.

Don Miller presented the budget for UofL and stated that it was the same as previously submitted with no changes. Travis questioned the 25% allocated for Milton Pierson's salary and Dr. Miller responded that Dr. Pierson's replacement would utilize these funds. Dr. Chesney stated that they currently have a temporary replacement who will become permanent in the fall.

Travis called for a motion to approve the UofL 2017-18 Budget Proposal. A motion was made by Dan Flanagan and seconded by Don Miller. The motion was approved.

OTHER BUSINESS

Rebecca referred to the letter from the Auditor and stated that expenditures of the Lung Cancer Research Fund are in compliance and accurately reported.

Rebecca announced that the next meeting of the Lung Cancer Board will be held on August 30th. Annual reports from each institution will need to be submitted to CPE by August 22nd for circulation to the Board members and will be presented for approval at the August 30th meeting for submission to the Governor and the Legislative Research Commission.

Dr. Mullett shared some highlights of the KCTN program. KCTN period accrual was 399 and FY2017 accrual to date is 499. This is the highest annual accrual since the inception of the program. Even more important, all accruals support the priority portfolio outlined in the strategic plan. Refining the portfolio to target the priorities of the strategic plan has helped to reinforce the strong preference of sites to conduct investigator-initiate clinical trials (IITs). In FY17, KCTN enrolled 471 to IITs and 28 to cooperative group or industry trials. Now there is an increase to 107/120 counties served by enrolled participants. KCTN sites have now enrolled subjects from 89% of the state.

With no further business, the meeting adjourned at 3:40 p.m.

					UK Lung Cancer	Cancer	Noft (UofL Cancer				
Date	Description	Interest	Ovarian	Combined LC Pool	Grants	Programs	Grants	Programs	Total Allocation (Calculated)	comment	САЅН	
	FY16 Carry-Forward Balance as of 6/30/2017	23,169.53			1,432,096.44			0.93				1,455,266.90
7/13/2017 8/4/2017	YTD Interest Earnings AUDIT: LUNG CANCER RESEARCH FUND FY ENDING 6/30/15 UK grant payment	1,140.53 (1,944.00)			(150,000.00)							1,456,407.43 1,454,463.43 1,304,463.43 1,304,463.43
	FY18 appropriation - not yet received - expected b/twn April-June 2018 5,176,100.00 Governance Board approved appropriations	00.00	800,000.00		750,000.00	1,668,100.00	750,000.00	1,208,000.00	5,176,100.00			
	Cash Balance	22,366.06			1,282,096.44			0.93				1,304,463.43

5

Council on Postsecondary Education Lung Cancer Research, Tobacco Settlement Fund (6349 fund) FY17 Cash Activity Report as of June30, 2017 Final Year End Report

						UK Ling Can	ancer	Hoff Cancer	ancer			
Date	Description		Interest	Ovarian	Combined LC Pool	Grants		Grants	Programs	Total Allocation (Calculated)	comment	САЅН
	FY16 Carry-Forward Balance as of 6/30/2016		32.938.52	-		832.096.44			0.93			865.035.89
	YTD In	YTD Interest Earnings as of 6.30.17	7,717.71									872,753.60
8/5/2016	AUDIT: LUNG CANCER RESEARCH FUND FY ENDING 6/30/15		(7,488.00)									865,265.60
1/23/2017	UK payment - Lung Cancer Sypmposium		(7,449.78)									857,815.82
2/2/2017	UK payment - Lung Cancer Sypmposium		(512.71)									857,303.11
5/1/2017	UK payment - Lung Cancer Sypmposium		(2,036.21)									855,266.90
4/11/2017	4/11/2017 FY17 appropriation - JV2T - 415- 1700001378 5/1/17	4,706,100.00										855,266.90
	Governance Board approved appropriations (June 2016)			800,000.00		750,000.00	1,395,500.00	750,000.00	1,010,600.00	4,706,100.00		5,561,366.90
4/11/2017	UK grant payment					(150,000.00)						5,411,366.90
5/11/2017	UK program payment						(1,395,500.00)					4,015,866.90
5/11/2017	UK ovarian program payment			(800,000.00)								3,215,866.90
5/15/2017	UL program and grant payments							(750,000.00)	(1,010,600.00)			1,455,266.90
	Cash Balance		23,169.53			1,432,096.44			0.93			1,455,266.90

Kentucky Lung Cancer Research Program Governance Board August 30, 2017

Annual Report to the Governor

ACTION: Recommend that the Board approve the Annual Report to the Governor for the University of Kentucky and the University of Louisville.

Annual reports have been submitted by the University of Kentucky and the University of Louisville for approval and are attached.

Kentucky Lung Cancer Research Program Annual Report 2017

INSTITUTION: University of Kentucky/Markey Cancer

Center

Prepared By: Elisha Maxson, and Nathan L.

Vanderford

SUBMITTED BY: Nathan L. Vanderford

DATE: 8/3/2017

	OBJECTIVES FROM 2016 STRATEGIC PLAN	GOALS (Including Metrics)	Describe how endpoints have been met?	Challenges to attaining goals/revision of endpoints/timeframe?
OAL 1: Investi	igator Initiated Research (KRS 16	⊥ 7.476(5)(a))		
1a.	-	Up to 5 projects per year.	Call for proposals for Cycle 16 was released on June 30, 2016, 15 letters of intent were received, and 4 applications were funded; this resulted in 3 principle investigator-level faculty engaging in the KLCRP that had previously not done so at Markey. Cycle 17 call for proposals was released on July 7, 2017, letters of intent are due on August 14, 2017, and applicants are currently writing full proposals which are due October 31, 2017.	Limited model systems; limited scientific appeal because of lack of national funding opportunities; difficult research area.
	Recruit new faculty with interests and expertise in cancer applied to lung cancer problems		>80 new faculty since 2009. Several recruits have primary and/or secondary interests in lung cancer. We are continuously looking to recruit faculty with lung cancer research and clinical interests.	Limited expertise available nationally; limited model systems; limited funding available; difficult research area.
	Develop, mentor and focus junior investigators/graduate students on lung cancer		Junior investigators at the MCC have formal and informal mentorship; many junior faculty have a mentorship committee comprised of senior faculty; new training grant mechanisms are being sought and developed as an effort to boost training for predoctoral students, postdoctoral fellows and junior faculty.	Limited senior investigators available for specific mentoring in lung cancer.
1e.	Support a robust research portfolio for lung cancer. Develop intra-programmatic linkages within/between UK/UofL	Encourage collaborative	14 active projects within 2017. Call for proposals for Cycle 17 was issued in July 2017 with projects being funded by July 2018; 4-6 projects are expected to be funded. Currently seeking proposals for Cycle 17. The 14 active KLCRP grants are intra- and inter-programmatic in nature and key personnel come from multiple colleges and departments.	Limited number of new investigators focusing on lung cancer research. Limited number of productively engaged lung cancer investigators especially related to clinician-scientists.
1f.	Cancer Centers Conduct annual scientists' seminars to share research results among funded KLCRP scientists.	Seminar exchange program between UK and U of L investigators funded by KLCRP.	Seminars occur on an ongoing schedule. Interested KLCRP-funded investigators are being sought for open seminar dates.	Funds to support travel expenses, etc
and 2. Passage	ch in Early Detection & Prevention	/VDS 167 476 (E\(a\)		
2a.	Conduct screening and early	Develop population-based studies especially in eastern Kentucky where cancer incidence and mortality is	A new lung cancer screening research study has been implemented and efforts are already underway to expand the scope of this project statewide. This study will focus on decreasing lung cancer mortality by detecting the disease at an early, treatable stage and by reducing smoking rates. Additionally, a KLCRP Cycle 13 grant being conducted by Dr. Jamie Studts is investigating the impact and need of lung cancer screening shared decision making through a web-based intervention for primary care providers, a vital group of health care providers that are essential for optimal dissemination and implementation of evidence-based lung cancer screening efforts. The Markey Cancer Center has also established a clinical lung cancer screening program that can be leveraged for research purposes going forward.	Cost of off site, population-based studies is exorbitant.
	Expand and refine methodologies for risk-factor delineation	Develop risk-factor models through population-based studies.	Projects testing heavy metals/environmental containments (radon, etc.), tobacco use, and other high-risk behavioral factors in correlation to GI and lung cancer are ongoing. MCC biostatisticians are looking at appropriate risk-factor modeling in these projects.	Overwhelming risk factor of smoking and other lifestyle factors.
	Validate the use of methodologies for lung cancer screening	An ongoing goal seeking improved methods.	The new lung cancer screening research study will revisit cost effective and sustainable screening methods. The new study specifically seeks to develop a network of lung screening sites that includes a research platform to contribute to collection of biospecimens from lung cancer screening participants that can be used to improve lung cancer screening models and modalities. The clinical lung cancer screening program at Markey will also seek to address these issues.	CT is still too costly for routine clinical application & risk assessment remains a challenge.
	Identify and develop methodologies for lung cancer prevention		Prevention projects that are ongoing include tobacco cessation programs, detection and elimination strategies for environmental contaminates and other behavior modification. Dr. Ellen Hahn is conducting significant and innovative work in primary care settings evaluating the effects of a combined radon and environmental tobacco exposure reduction intervention to prevent lung cancer. Lung cancer screening in parallel with tobacco cessation programs are also ongoing at Markey.	Overwhelming risk factor of smoking and other lifestyle factors.
	Maintain and expand the biospecimen repository for use by researchers		More than 20,000 biospecimens (many of which come from Appalachian Kentucky patients) are now available.	Limited access to lung tissue; no surgery for advanced stage disease.
	Capitalize on partnerships with regional and local hospitals and clinics to build an early detection network where research is integral to the relationship	our affiliate network and	There are currently 18 Markey affiliate hospitals; other affiliate sites are in negotiation. A Markey research network via partner regional hospitals has been launched and now includes 6 sites. MCC faculty and staff have traveled to Affiliate and Research partner facilities to present CMEs on the standards and coverage decisions for lung cancer screening.	Exorbitant expense; regional and local hospitals are cautious about how expenses will be shared.
_	Link prevention and early detection studies.	initiatives that serve our catchment area.	Education & smoking cessation programs are widely ongoing as mentioned above. A cycle 12 investigator-initiated grant focuses on identifying the "best" smoking cessation strategy for our catchment area. The new lung cancer screening research study will look to incorporate evidence-based tobacco treatment strategies into high quality lung cancer screening programs in order to combine primary and secondary prevention efforts. Further, efforts are under consideration to incorporate radon education efforts as a component of high quality implementation of lung cancer screening programs. Lastly, the clinical lung cancer screening program at Markey will link patients with prevention strategies including smoking cessation and environmental contaminant mitigation.	Most effective prevention means is smoking cessation; early detection is more problematic in expense, specificity & sensitivity.

	OBJECTIVES FROM 2016 STRATEGIC PLAN	GOALS (Including Metrics)	Describe how endpoints have been met?	Challenges to attaining goals/revision of endpoints/timeframe?
	oal 3: Kentucky Clinical Trials Network (KRS 16 a. Increase # of Kentuckians with access to and participating in lung cancer CTs		Sites have Enrolled 2,773 participants residing in 101/120 counties to KCTN trials, a saturation of 89% of the Commonwealth. FY2017 accrual was 499 the highest annual accrual since inception of the program. All accruals support the priority portfolio outlined in the KLCR Strategic Plan. Sites located in every federal congressional district in Kentucky. Collaborating with Markey Cancer Center to lever synergies and expand access to trials to selected affiliate centers. Trials focus on high priority trials in early detection and treatment of tobacco addiction at centers in MCC catchement areas. Continue work with research sites, including Academic Centers, Community-based hospitals; experience ranging from vast research enterprises to no existing research program. Sites have established enrollment to trials or increased their previous overall enrollment performance. Data for selected sites that hold accreditation with the American College of Surgeons, Commission on Cancer indicate verifiable numbers of increased participation and access to trials in FY2017. «IIT collaboratively developed, by MCC clinician, behavioral scientist, KCTN Medical Director and Director. Utilizes innovative statistical design, MOST to identify optimal smoking cessation intervention strategy for newly diagnosed patients; pharmaceuticals and high intensity counseling. Funded with KLCRP cycle 12 award, with additional grant awarded by Pfizer. Trial conducted at 10 KCTN sites. Participating sites have increased capacity in smoking cessation counseling as a result of the study provided training on using motivational interviewing as a technique to counsel patients on smoking. This trial aligns with objectives and priorities outlined in the KLCR Strategic Plan; high-priority investigator-initiated trial, treatment of tobacco addiction, education. The MOST trial has led to the development of a parallel investigator initiated trial to examine factors that influence successful implementation of tobacco treatment. Data will guide us to contin	 Challenge is reflective of national and international accrual to trials. National average indicates that less than 3% of adult cancer patients are enrolled to studies. However, most KCTN sites average higher than national average as documented by Commission on Cancer evaluation and commendation level achievements for number of patients enrolled. Despite availability of trials, not every patient is offered opportunity to participate by treating clinicians. Obstacles reflective of time burden in busy clinics, resources and staff for both AMCs and community based sites. Progress: Kentucky Cancer Registry (KCR) implemented clinical trial variables in 2013 software release. Data is now available on the total number of Kentuckians participating in clinical trials. In previous years, this Outcome Measurement Difficult: KCR did not collect a data field of clinical trial. For previous and current year, endpoint to measurable metric against verifiable numbers collected at sites: # lung cancer patients vs/ # lung cancer patients participate in trial. Challenge: Treatment of tobacco addiction in cancer patients has met with some provider and patient resistence to engage in informed discussions to consider partipcation in the MOST trial. The MOST trial has led to the development of a parallel investigator initiated trial to examine factors that influence successful implementation of tobacco treatment. Data will guide us to continuing to advance efforts for comprehensive and integrated tobacco treatment services in our cancer programs.
10	Develop and maintain a critical mass of trained professional staff to support multi-site clinical trials	based on Site Development Plans. • Data Management & Project Management Support for CC. • Continue on-site training.	KCTN Director and Medical Director initated concept development of an intenstive training program for treatment of tobacco addication to elevate training available in the state for professionals. UK College of Nursing, KCTN leadership, Morehead State University, St. Claire Regional Medical Center developed aTobacco Treatment Specialist (TTS) Training Program. This in depth training is based on evidence based standards and core competencies for developed by the Association for Treatment of Tobacco Use & Dependence (ATTUD). 26 people from 10 sites completed the pilot course. The program team submitted to ATTUD for accreditation in June 2017. The training program is novel in accessability via webbased and video. This is the only advanced level training program in the Commonwealth to offer intensive training to health professionals involved in delivering tobacco treatment care. Onboarded new site team members: Training - PI responsibilities, GCP, CFR, SOPs, systems. Trainings: 1.1 Research nurse, 1 Study Coordinator achieved certified resarch professional credentials. 2. 1 new coordinators completed Research 101 - intensive 10 wk course. 3. Pis, SCs trained in GCP, CFR, SOPs, protocol prior to and ongoing during trials. *Continued development of Coordinating Center to support trials management and central services. Site Continuing Education (CE) selected spotlight: *Representatives from 10 sites attended the Markey Cancer Center Affiliate Network annual meeting offering CEs. KCTN co-hosted a research information table. KCTN Medical Director, KCTN Director presented session at the Lung Cancer Alliance's 2nd Annual Lung Cancer Screening and Care Conference, "Choosing and Managing Technology for a Lung Cancer Screening Research Project". *Presented CME sessions at area centers, "Development of Quality Lung Cancer Screening" and "Practical Lung Cancer Screening CT", "Shared Decision Making", "Treatment of Tobacco Addiction" *KCTN sponsored KCTN Member attendance to regional and national continuing education con	 Challenges to incorporate research into busy clinic practices is a static problem, physician and nurse time. Challenges with consistency of seamless incorporation of trial consideration for majority of patients seen. Compliance requirements are intensive and require substantial commitments from physicians, nurses, and institutions. Site resources limit FTE dedicated to research. CC team, challenging transition from experience in study conduct role to CRO type services/sponsor role. Application of expertise is substantial and requires advanced trainings in CFR and GCP, CRO services and study oversight, as well as communications. Unique qualifications to support deliverables of program requires continuing professional development and advancing expertise. Due to complexity of systems and operations needed to develop IITs for multi-site conduct and meet regulatory resposibilities, there are limited internal resources to leverage. Compliance, quality and audit requirements are intensive.
3	Offer and manage industry- sponsored lung cancer clinical trials through the Network.	referrals for all industry- sponsored trials considered. • Target studies to include; early and late stage NSCLC,	 Participated in global drug trials sponsored by industry. All Markey Cancer Center trials were considered for appropriateness to expand to external KCTN sites. Implemented new process to improve and facilitate cross-referrals and ensure patients are considered for trials. Site Performance Spotlight: Private Practice Site is one of lead enrolling sites internationally to therapeutic trial of investigational drug for treatment of advanced stage NSCLC following progression after or intolerance to at least one prior chemotherapy. Site has enrolled five patients, represents ~5% of total number enrolled in US. Senior sponsor representatives visited site and compliment quality of site and KCTN services. KCTN Regional site, Owensboro Health, only non-AMC site in Kentucky selected to conduct G1T28 trial. KCTN community site hospital only non-AMC site in KY selected to participate in Phase Ila safety and pharmacokinetic study of G1T28 in patients with extensive stage small cell lung cancer with progression during or after first or second-line chemotherapy. Owensboro Health, Mitchell Memorial Cancer Center and UK Markey Cancer Center are only sites in Kentucky participating. KCTN Director presented a CE session at the Lung Cancer Alliance's 2nd Annual Lung Cancer Screening and Care Conference, "Choosing and Managing Technology for a Lung Cancer Screening Research Project". KCTN Project Coordinator presented a CE session at the King's Daughters Medical Center regional conference, "Oncology Clinical Research: An Overview", 	- Capacities at several sites limit # of studies feasible for site study portfolio. Many sites participate in limited number of trials at one time due to limited staffing resources. One site does not participate in more than one trial per patient population, despite large volume of patients that could support at least 2 competing trials. Several sites now decline to participate in industry trials as they prefer to conduct trials initiated and led by MCC and BCC investigators. - Limited industry trials available that are consistent with the KLCRP Strategic Plan and KCTN priority portfolio.

	OBJECTIVES FROM 2016 STRATEGIC PLAN	GOALS (Including Metrics)	Describe how endpoints have been met?	Challenges to attaining goals/revision of endpoints/timeframe?
36	Identify and develop investigator-initiated clinical trials at both UK and UofL that can be offered to patients in diverse settings.	quality study development; consider factors influence trial success. • Identify studies based on feasibility evaluation to ensure trial accrual; patient populations, site capacity. • Consider complexity of trial design to identify studies feasible to launch as multisite. • Facilitate development of trials consistent with KLCRP Strategic Plan goals.	addition. Trial pipeline achieved goals estalbished in the KLCRP Strategic Plan for goals 2a, 2c, and 3 and in accordance recommendations of the KLCRP Review. • Central support of Sponsor-Investigators to meet responsibilities as required under Code of Federal Regulations and ethical research principles. KCTN ensures CFR & GCP are considered in all phases of project; development, conduct, archive. Quality Systems to support Sponsor-Investigators substantial responsibilities. • Expanded Investigator-Initiated trials previously conducted at a single facility to multi-site participation thus expanding access to trials to patients across Kentucky, without burdensome travel to patient. Investigator-Initiated Trial Spotlight:	 Limited number of Investigator-Initiated Trials (IITs). IITs come to us unfunded or modest funding insufficient to sponsor multi-site trial. From KCTN's inception, all IITs conducted via KCTN have required use of KCTN funds to support trial; including regulatory, study drug, monitoring, site payments or full study funding. Grant submissions to NIH and other external agencies are challenging, reflective of increased competiveness in national funding sources. Increased funding for multi-site investigator-initiated trials is needed. Challenges and time effort of Study Chairs to meet CFR responsibilities of Sponsor-Investigator of multi-site trials. Substantial increase in responsibilities over internal only IITs. Sponsor-Investigators must comply with Code of Federal Regulations as both sponsor and investigator.
31	Continually improve the Network's services with input from practicing KY physicians.	 Expand study portfolio with priorities as defined in the KLCRP Strategic Plan and KCTN physician research interests. Use of Master Services style contract to sustain study initiation timelines. Perform centralized services. Perform site visits to ensure deliverables are consistent with site and study needs. 	Review, Development, & Onboarding). • KCTN Medical Director & Director conduct site visits to encourage sustained commitments to research and seek feedback regarding support services. • Utilize Project Planning Teams to develop trials with unique insight to community based practioners, while maintaining integrity and scientific value of trials. • Utilize study concept feasibility assessments to solicit feedback from community physicians on trials in development. • Per site requests, portfolio includes Interventional and Non-interventional trials. • Offer menu of centralized support services while site retains autonomy; including budgets, contracts, regulatory, training, patient	Due to site diversity, difficult to meet all needs. However, sites experience many of the same challenges in conducting trials; o Not every patient is offered the opportunity to participate in a trial, despite availability of trials, due to busy clinics and lack of support staff. o Several sites experience recurring struggles with sufficient staffing levels and high turnover. o Non-Academic Center sites struggle with sustaining sufficient funding to support dedicated research personnel. Study Coordinators are frequently pulled to cover clinic nurse shortages. Burden of incorporating and sustaining clinical trials in non-AMC practices is challenging despite strong commitments.
6	and 4: NCL Designation as Cansor Contars (VBS	164 476 (E)(c))		
	4a. Expand the base of cancer research expertise, particularly in translational research.	Recruit both promising	Recruited >80 new faculty since 2009; diversity of disciplines represented. A heavy emphasis is being placed on translational research especially related to moving Markey basic science into the clinic via novel/unique clinical trials.	Funding for salary support and access to laboratory space.
	4b. Develop diverse cancer research programs with a high degree of inter- and intra- team	At least 3 designated Program Areas.	We have 4 mature program areas: Cancer Cell Biology and Signaling; Cancer Prevention and Control; Drug Discovery, Delivery and Translational Therapeutics; and Genetic Instability, Epigenetics and Metabolism.	Critical mass of faculty with critical mass of NCI funding; collaborations require protected time.
	4c. Provide and promote interactive research opportunities.	30% of grants and publications collaborative.	About 30% of publications are intra- or inter-programmatic. Nearly 30% of our grants are collaborative between 2 or more Markey investigators.	Protected faculty research time for development of collaborations.
	4d. Offer expanded innovative clinical trials, building on combined research underpinnings of the two centers.	Accrual of at least 10% of patients to innovative clinical studies.		Clinical faculty pressed into clinical service; building renewed leadership emphasis on clinical research.

							5	UNIVERSITY OF KENTUCKY					
							2017 FI	2017 FISCAL YEAR-ANNUAL REPORT					
	Budget	Budget	Budget	PERSONNEL	FRINGE BENEFITS	EFITS	TRAVEL	OPERATING EXPENSES	CAPITAL OUTLAY	INDIRECT COSTS	Total		
	TOTAL REVENUE 2000-2017	FY2017 Allocations	FY 2018 Allocations										
ADMINISTRATION	\$ 24,642,505.77										<u>-</u>		
I-I GRANTS FUNDING	\$ 16,296,871.93										· ·	1,086,299.94 FY16 carry forward	Ş
Program Grants Carry Forward (FY16)	\$ (3,473,702.93)			\$ 2,752,349.72	72 \$	⊹	(16,942.72) \$	530,788.22	\$ 207,507.71	\$	\$ 3,473,702.93	-415134.24 FY17 expenses	Ŷ
I-I Grants Carry Forward (FY16)	\$ (2,038,641.52)			\$ 1,070,763.46	46	\$	17,234.00 \$	789,509.63	- \$	\$ 161,134.43	\$ 2,038,641.52 \$	267,341.58 FY16 residual fund balance	
Carryforward funds at CPE										\$	·	685000 New funds	
I-I Grants Cycle 17 funding not yet claimed	\$ (750,000.00)	\$ 750,000.00	\$ 750,000.00								\$	1,623,507.28 sum	Ş
Administration not yet received (FY17 funding to be	(1)	1,395,500.00	\$ 1,668,100.00	\$ 1,395,500.00	00						\$ 1,395,500.00 \$	(1,623,507.28) Balance of I-I grants carrying forwar	c
used in FY18)													
Other Grants/Contracts		- \$	- \$								\$ - \$	- variance	↔
TOTAL INCOME	\$ 33,199,436.81	\$ 2,145,500.00	\$ 2,418,100.00	\$ 5,218,613.18	18 \$	\$	291.28 \$	1,320,297.85	207,507.71	\$ 161,134.43	\$ 6,907,844.45		
GOAL 1: Investigator Initiated Research	13,426,133.97	\$ 750,000.00	\$ 750,000.00	\$ 248,723.54	54 \$	71,566.47 \$	4,791.73 \$	53,220.57	-	\$ 36,831.93	\$ 415,134.24		
GOAL 2: Research in Early Detection/Prevention	\$ 2,413,001.01		٠.	₩.	\$ -		٠	-	1	\$	· ·		
GOAL 3: Kentucky Clinical Trial Network	\$ 6,191,844.18	\$ 384,900.00	\$ 460,100.00	\$ 245,354.94	34 \$	72,423.61 \$	8,731.64 \$	124,361.87 \$	1	- \$	\$ 450,872.06		
GOAL 4: NCI Designation (Comp Cancer Center)		1,010,600.00	\$ 1,158,000.00	\$ 776,755.01	\$	217,251.02 \$		\$ 46,503.64	66,466.13	- \$	\$ 1,107,545.80	Program funds	
Administration	\$ 1,944,011.61	· ·	\$ 50,000.00	\$ 16,929.46	46 \$	5,130.79 \$	\$ 09.61	\$	1	· •	\$ 22,079.85		
Research Support	\$ 584,742.77										<i>γ</i> .	3,473,702.93 FY16 Carry-forward	Ş
Internet Portal	\$ 292,055.72											1395500 FY17 funding	Ş
Epidemiology	\$ 422,410.00			\$	\$	<u>∽</u>	٠,		•	\$	· ·	-1580497.71 FY17 expenses	Ş
Endowed Chair	\$ 492,494.00			\$	\$	<u>∽</u>	٠,	\$ -	•	\$	\$	3,288,705.22 sum	Ş
TOTAL EXPENSE	\$ 33,199,436.81	\$ 2,145,500.00	\$ 2,418,100.00	\$ 1,287,762.95	\$	366,371.89 \$	14,112.97 \$	224,086.08	66,466.13	\$ 36,831.93	\$ 1,995,631.95	3288705.22 FY17 carry-forward	
Balance	- \$	- \$	- \$	\$ 3,930,850.23	\$	(366,371.89) \$	\$ (13,821.69)	1,096,211.77	\$ 141,041.58	\$ 124,302.50	\$ 4,912,212.50 \$	- variance	Ş
					•	-	-	-					

952,341.58

2,038,641.52 (415,134.24)

1,623,507.28 -\$1,623,507.28

3,473,702.93 1,395,500.00 (1,580,497.71) 3,288,705.22 \$3,288,705

UK and UofL dedicated to lung cancer research. KRS 164.476 ... 20% of Kentucky's Tobacco Settlement funds shall be spent on a collaborative partnership between

NOTES: 1. Total KLCR funding per reconciliations received.

2. Cycle 12 grants - \$450,000 was awarded for Cycle 12

Cycle 13 grants - \$600,000 awarded for Cycle 13 (grants begin 7/1/14)
 Cycle 14 grants - \$600,000 awarded for Cycle 14 (grants to begin 7/1/15)
 Administration Carry-forward funding into FY18:
 Kentucky Clinical Trials Network
 NCI Designation
 Administration

 Early Detection

Balance 6/30/17 \$989,568 \$2,048,941 \$91,792 \$158,404

\$3,288,705

6. Investigator-Initiated Grants Carry-forward funding into FY18
Residual Fund
Cycle 11 - began 7/1/12
Cycle 12 - began 4/1/13
Cycle 13 - begins 7/1/14
Cycle 14 - begins 7/1/15
Cycle 15 - begins 7/1/16
KCTN Data Coordinator - taken from I-I funding
Symposium

\$267,341.58 \$12,910.91 \$163,804.28 \$370,588.07 \$205,960.43 \$524,400.71 \$78,500.00 \$1.30

\$1,623,507.28

Kentucky Lung Cancer Research Program University of Kentucky FY17 Payroll Expenditures

Acct No	Initiatives by Goal	Role	Individual	FTE %	New/Existing	Salary	Fringe
3048111498	Investigator Initiated	Faculty - Basic Scientist	Amrita	46.67%	Existing	\$22,609.30	\$7,633.72
1.7.5	Research (G1) Investigator Initiated		Machwe Christina		Existing	\$180.77	\$10.58
	Research (G1) Investigator Initiated	Fellowship Faculty - Biostatistics	Wicker Li Chen		Existing	\$1,186.44	\$312.33
	Research (G1)	i acuity - DioStatiStiCS	•	13370	FYE Payroll	\$ (180.77)	\$ (16.00)
3048111500	Investigator Initiated	Faculty - Basic Scientist	Amrita	5.33%	Accruals Existing	\$2,582.10	\$871.73
	Research (G1) Investigator Initiated	Faculty - Basic Scientist Faculty - Basic Scientist	Machwe David Orren		Existing	\$506.42	\$139.22
	Research (G1) Investigator Initiated	Faculty - Basic Scientist Faculty - Biostatistics	Emily Dressler		Existing	\$3,316.76	\$989.22
	Research (G1) Investigator Initiated	Faculty - Biostatistics Faculty - Clinician Scientist	Mahesh		Existing	\$2,188.30	\$416.10
	Research (G1) Investigator Initiated	Faculty - Clinician Scientist Faculty - Basic Scientist	Kudrimoti Tadahide		Existing	\$524.60	\$158.80
	Research (G1) Investigator Initiated	Staff-Clinical Research Associate	Izumi Cynthia		Existing	\$9,316.79	\$2,875.49
	Research (G1)	Stair-Cillical Research Associate	Leedham	1.3370	FYE Payroll	\$357.95	\$77.63
3048112384	Investigator Initiated	Faculty Picatotictics	Chi Wang	4.00%	Accruals Existing	\$4,811.86	\$1,308.85
12.12.1.2001	Research (G1) Investigator Initiated	Faculty - Biostatistics	Chunming Liu		Existing	\$1,573.00	\$393.69
	Research (G1) Investigator Initiated	Faculty - Basic Scientist	Heidi Weiss		Existing	\$2,329.32	\$510.79
	Research (G1) Investigator Initiated	Faculty - Biostatistics Graduate Research Assistant	Hong Wang		Existing	\$498.50	\$5.50
	Research (G1) Investigator Initiated		Jinze Liu		Existing	\$2,205.48	\$508.73
	Research (G1) Investigator Initiated	Faculty - Biostatistics	Sivakumaran		Existing	\$1,269.00	\$320.14
	Research (G1) Investigator Initiated	Faculty - Clinician Scientist	Theru Susanne		Existing	\$3,081.64	\$664.10
	Research (G1) Investigator Initiated	Faculty - Clinician Scientist Graduate Research Assistant	Arnold Yuchen Yang		Existing	\$ (18,975.00)	\$ (2,583.04)
	Research (G1)	Staddato Nosodion Assistant	. donon rang	0.00%	FYE Payroll	\$ (18,975.00)	\$ (2,563.04)
3048112439	Investigator Initiated		Chi Wang	3 000/	Accruals Existing	\$3,608.88	\$981.61
JU4011Z4JY	Research (G1) Investigator Initiated	Faculty - Biostatistics	Susanne		Existing	\$3,608.88 \$1,910.66	\$981.61
	Research (G1) Investigator Initiated	Faculty - Clinician Scientist	Arnold				
	Research (G1) Investigator Initiated	Faculty - Basic Scientist Staff Research Associate	Chunming Liu		Existing	\$4,719.00	\$1,181.18
	Research (G1)	Staff - Research Associate	Tianxin Yu	50.00%	Existing FYE Payroll	\$20,680.14	\$8,132.02
2040005040	Investigator Initiated	Foculty Pagin Opinities	Dovid-1344 · · ·	70.000	Accruals	\$361.08	\$126.47
3049025842	Research (G1) Investigator Initiated	Faculty - Basic Scientist	David Watt Susanne		Existing	\$1,828.56	\$414.13
3048112440	Research (G1) Investigator Initiated	Faculty - Clinician Scientist	Arnold		Existing	\$770.40	\$166.09
	Research (G1) Investigator Initiated	Graduate Research Assistant	Ye Yang Amanda		Existing	\$15,842.18	\$2,340.31
	Research (G1)	Graduate Research Assistant	Spear	28.50%	Existing FYE Payroll	\$5,480.71	\$846.77
	Investigator Initiated		Emily		Accruals	\$ (361.54)	\$ (4.34)
3048112542	Research (G1)	Clinical Research Assistant II	Shardelow	0.00%	Existing FYE Payroll	\$ (139.92)	\$ (52.31)
	Investigator Initiated	ļ	Venkata		Accruals	\$ (31.09)	\$ (10.93)
3048113028	Investigator Initiated Research (G1)	Faculty - Informatics	Kavuluru		Existing	\$26,420.04	\$7,138.81
	Investigator Initiated Investigator Initiated	Database Analyst	David Rust Michael		Existing	\$3,520.05	\$1,033.89
	Research (G1) Investigator Initiated	Faculty - Clinician Scientist	Brooks		Existing	\$7,056.28	\$1,471.86
	Investigator Initiated	Faculty - Informatics Faculty - Biostatistics	Eric Durbin Bin Huang		Existing Existing	\$1,290.76 \$5,033.58	\$332.41 \$1,263.91
	Investigator Initiated	Graduate Research Assistant	Anthony Rios		Existing	\$3,660.00	\$746.65
3048113044	Investigator Initiated Research (G1)	Faculty - Biostatistics	Brent Shelton	0.75%	Existing	\$1,507.34	\$348.15
	Investigator Initiated Research (G1)	Faculty - Basic Scientist	Jamie Studts	3.00%	Existing	\$3,155.37	\$738.15
	Investigator Initiated Research (G1)	Staff - Research Associate	Kory Brinker	2.47%	Existing	\$1,042.09	\$318.76
3048113001	Investigator Initiated	Faculty - Rasia Scientist	Douglas	2.00%	Existing	\$4,930.70	\$1,125.18
	Research (G1) Investigator Initiated	Faculty - Basic Scientist	Andres John Villano		Existing	\$1,540.00	\$371.30
	Research (G1) Investigator Initiated	Faculty - Clinician Scientist	Chi Wang		Existing	\$1,203.00	\$327.23
2040442022	Research (G1) Investigator Initiated	Faculty - Biostatistics	Katherine				
3048113068	Research (G1) Investigator Initiated	Faculty - Basic Scientist	Eddens Nancy		Existing	\$17,623.32	\$5,859.93
	Research (G1) Investigator Initiated	Faculty - Basic Scientist	Schoenberg		Existing	\$3,312.52	\$773.65
	Research (G1)	Faculty - Basic Scientist	Jamie Studts	1.00%	Existing	\$1,403.24	\$340.20
	Investigator Initiated Research (G1)	Faculty - Clinician Scientist	Timothy Mullett	1.00%	Existing	\$4,000.02	\$885.94
	Investigator Initiated Research (G1)	Staff - Informatics	Darren Davis	10.00%	Existing	\$8,216.10	\$2,846.46
	Investigator Initiated Research (G1)	Faculty - Biostatistics	Li Chen	1.00%	Existing	\$1,186.44	\$312.33
3048113081	Investigator Initiated Research (G1)	Faculty - Basic Scientist	Min Chen	20.00%	Existing	\$13,818.66	\$4,161.05
	Investigator Initiated Research (G1)	Faculty - Clinician Scientist	Susanne Arnold	50.00%	Existing	\$1,540.86	\$332.03
	Investigator Initiated	Faculty - Biostatistics	Heidi Weiss	50.00%	Existing	\$1,164.70	\$255.56
	Research (G1) Investigator Initiated	·	Lili Liu		Existing	\$720.00	\$7.92
	Research (G1) Investigator Initiated	Staff - Visiting Scholar	Sivakumaran				
3048113082	Research (G1)	Faculty - Clinician Scientist	Theru Arumugam	2.87%	Existing	\$4,496.30	\$1,134.30
	Investigator Initiated Research (G1)	Faculty - Clinician Scientist	Susanne Arnold	1.00%	Existing	\$3,081.64	\$664.10
	Investigator Initiated Research (G1)	Faculty - Biostatistics	Chi Wang	1.00%	Existing	\$1,203.00	\$327.23
	Investigator Initiated	Faculty - Biostatistics	Heidi Weiss	1.00%	Existing	\$2,329.32	\$510.79
3048113167	Research (G1) Investigator Initiated	,	Angela Mahan		Existing	\$1,402.62	\$306.01
	Research (G1) Investigator Initiated	Faculty - Clinician Scientist	Heidi Weiss		Existing	\$2,327.39	\$500.01
	Research (G1) Investigator Initiated	Faculty - Biostatistics	Emily				
004044000=	Research (G1) Symposium	Staff - Clinical Research Associate	Shardelow Nathan		Existing	\$172.22	\$56.01
3048113207		Faculty - Basic Scientist	Vanderford		Existing	\$1,238.20 \$1,577.00	\$339.90 \$521.20
	Symposium	Staff - Cancer Education Liason	Terry Keys	3.05%	Existing	\$1,577.00	\$521.20

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3048113228	Investigator Initiated Research (G1)	Faculty - Basic Scientist	Amrita Machwe	28.93%	Existing	\$14,015.16	\$4,732.08
	Investigator Initiated Research (G1)	Faculty - Biostatistics	Chi Wang	1.00%	Existing	\$1,203.00	\$327.23
	Investigator Initiated		Heather	3 85%	Existing	\$4,357.62	\$1,211.60
	Research (G1) Investigator Initiated	Staff - Program Manager	Robertson				
	Research (G1)	Graduate Research Assistant	Olivia Lochner	4.17%	Existing	\$941.80	\$82.40
	Investigator Initiated Research (G1)	Graduate Research Assistant/Temporary Technical/Paraprofessional	Alexis Clark	23.01%	Existing	\$3,189.20	\$749.70
					FYE Payroll	\$449.90	\$39.37
					Accruals		
			Total FTE	3.42		\$248,723.54	\$71,566.47
3049024113	Clinical Trials (G3)	Clinical Research Assistant II	Emily Shardelow	0.00%	Existing	\$214.16	\$24.50
		Administrative Research Assistant/Non-	Joseph	70.00%	Existing	\$39,365.95	\$14,632.28
		Therapeutic Research Manager	Alexander Kristine		_	¢46,906,42	
		Clinical Trial Management Director	Damron Melinda	55.00%	Existing	\$46,896.43	\$13,423.29
			Dowden-	100.00%	Existing	\$55,958.19	\$17,664.13
		Clinical Research Assistant III	Kruger Michele				
		Clinical Research Assistant III	Hughes	100.00%		\$61,227.92	\$18,903.47
		Student Employee	Ryan Haas	100.00%	Existing	\$2,112.00	\$185.05
		Clinical Director	Timothy Mullett	10.00%	Existing	\$39,999.96	\$7,989.97
					FYE Payroll	\$ (419.67)	\$ (399.08)
					Accruals	, (,	* (====)
			Total FTE	4.35		\$245,354.94	\$72,423.61
3049024114	NCI-Designation (G4)	Faculty - Research	Cai Huang	75.00%	Existing	\$69,020.86	\$21,707.41
		Senior Executive Officer	Carla Repass	73.00%	Existing	\$63,966.08	\$13,883.92
		Assistant Director of Finance	Elisha Maxson	35.00%	Existing	\$24,908.44	\$8,532.29
		Faculty - Informatics	Eric Durbin	7.72%	Existing	\$9,954.43	\$2,581.89
		Staff - Research Associate Senior	Garretson Epperly	8.75%	Existing	\$4,954.48	\$1,589.30
		Facuty - Behavioral & Community Research		10.00%	Existing	\$14,031.56	\$3,402.15
		Staff - Administrative Research Assistant	Jennifer Dolly	100.00%		\$43,770.39	\$14,093.71
		Faculty - Research	Jing Li		Existing	\$77,881.66	\$21,496.20
		Faculty - Biostatistics Core	Jinze Liu		Existing	\$27,846.00	\$2,532.62
		Faculty - Research	Meenakshi Upreti	25.00%	Existing	\$17,762.48	\$5,275.00
		Faculty - Assistant Director of Research	Nathan Vanderford	10.00%	Existing	\$12,394.32	\$3,401.50
		Faculty - Research	Piotr Rychahou	24.17%	Existing	\$20,541.66	\$6,630.92
		Faculty - Research	Qingding Wang	49.70%	Existing	\$58,010.65	\$16,620.38
		Staff - Statistician	Quan Chen	36.92%	Existing	\$18,446.95	\$6,423.18
		Staff - Statistician Assitant	Rani Jayswal	29.00%	Existing	\$15,279.82	\$5,023.82
		Faculty - Informatics	Sally Ellingson	25.00%	Existing	\$21,955.10	\$6,638.40
		Faculty - Early Phase Clinical Trials Director	Jill Kolesar	70.00%	New	\$84,527.81	\$21,437.85
			Leif Magnuson	13.33%	Existing	\$5,620.25	\$1,702.32
		Staff - Facilities Specialist Faculty - Research	Yadi Wu		Existing	\$29,755.08	\$8,972.56
		Staff - Facilities Specialist	Warren	41.67%	_	\$15,395.10	\$5,190.02
		·	Rummage				
		Faculty - Research Faculty - Research	Zhen Qi Ren Xu	42.50% 61.85%	Existing	\$38,250.00 \$61,611.81	\$10,563.65 \$17,986.31
		Staff - Oncogenomics Core	Vijaya Sivaraj		Existing	\$33,955.84	\$10,189.17
		Staff - Scientist I	Abigail Anderson	16.67%	_	\$5,671.71	\$1,145.89
		Stail - Scientist i	Anderson		FYE Payroll Accruals	\$1,242.53	\$230.56
					/ Noti dals		
			Total FTE	9.19		\$776,755.01	\$217,251.02
3049024115	Administration (Gx)	Assistant Director of Finance	Elisha Maxson	10.00%	Existing	\$7,120.16	\$2,438.63
		Faculty - Assistant Director of Research	Nathan Vanderford	7.92%	Existing	\$9,809.30	\$2,692.16
			T			\$40.00C 10	AF 400 TO
		FISCAL YEAR 2016	Total FTE Total	0.18		\$16,929.46 \$ 1,287,762.95	\$5,130.79 \$ 366,371.89
			1		1	.,,,	, 300,51 1100

Kentucky Lung Cancer Research Program University of Kentucky FY16 Capital Expenditures

Accounts	Initiatives by Goal	Equipment	Purchase Amount
3048109368	Investigator Initiated Research (G1)		\$0.00
3048109411	\		\$0.00
3048111390			\$0.00
3048110255			\$0.00
3048110274			\$0.00
3048110846			\$0.00
3048111498			\$0.00
3048111500			\$0.00
3048111854			\$0.00
3048112542			\$0.00
3048112384			\$0.00
3048112439			\$0.00
3048112440			\$0.00
3048112580			· · · · · · · · · · · · · · · · · · ·
3048113028			\$0.00
3048113044			\$0.00
			\$0.00
3048112949			\$0.00
3049025842			\$0.00
ı			\$0.00
		Total	\$0.00
3049024116	Early Detection ()		
3049024117			\$0.00
		Total	\$0.00
3049024113	Clinical Trials (G3)		
		Total	\$0.00
3049024114	NCI Designation (G4)	Lab Equipment	\$5,872.75
		Total	\$0.00
xxxxx	Epidemiology (Gx)		
		Total	\$0.00
3049024115	Administration		\$0.00
	G1	.[
	G2	1	
	G3		
	G4	1	
		Total	\$0.00
XXXXX	Endowed Chair		\$0.00
		1	
		Total	* 0.00
TOTAL		Total	\$0.00
TOTAL			\$0.00



									Operating			
Cycle	Grant Evaluating Quality of Lung Cancer	UK Account #	Close Date	Investigator	Budget	Spent in Prior Fiscal Years	Personnel + Fringe	Travel	Expenses	F&A costs	Total Costs	Balance
N/A	Screening Implementation	3048112949	6/30/2017	Brooks, Michael	\$ 28,248	\$ -	\$ -	\$	\$ -	\$ -	\$ -	\$ 28,248
N/A	KCTN Data Coordinator	3048111854	6/30/2017	Mullett, Tim	\$ 78,500	\$ -	\$ -	\$	\$ -	\$ -	\$ -	\$ 78,500
N/A	Symposium	3048113207	6/30/2018	Vanderford, Nathan	\$ 10,000	\$ -	\$ 3,676	5 \$	\$ 6,322	\$ -	\$ 9,999	\$ 1
	Connecting Appalachians to Lung Cancer Screening: Leveraging Social Networks to Reduce											
15	Lung Cancer	3048113068	6/30/2018	Eddens, Katherine	\$ 150,000	\$ -	\$ 46,760	\$	\$ -	\$ 4,676	\$ 51,436	\$ 98,564
15	Novel Function of Metastasin-1 in Non- small cell Lung Cancer	3048113081	6/30/2018	Chen, Min	\$ 75,000	\$ -	\$ 22,001	\$ 2,15	3 \$ 3,969	\$ 2,813	\$ 30,941	\$ 44,059
15	Radon and Tobacco Smoke Exposure Biomarkers of Lung Cancer Risk	3048113228	6/30/2018	Hahn, Ellen	\$ 150,000	\$ -	\$ 31,299	\$	\$ 1,773	3,307	\$ 36,379	\$ 113,621
	Personalized Therapy for Non-Small Cell											
15	Lung Cancer	3048113082	6/30/2018	Arumagam, Siva	\$ 150,000	\$ -	\$ 13,747	/ \$ ·	- \$	\$ 1,375	\$ 15,121	\$ 134,879
15	RIT1 as Novel Driver	3048113001	6/30/2018	Andres, Douglas	\$ 150,000	\$ -	\$ 9,497	7 \$	\$ 5,704	\$ \$ 1,520	\$ 16,721	\$ 133,279
	Information Extraction from Diagnostic Narratives to Improve Patient Recruitment Efforts for Lung Cancer	3048113028 (replaces	1	Manufacture Manufacture	05.455	20.550	£ 50.000		1 4 4 5 5	6.376	ć (c) 030	(424)
14	Clinical Trials Automated Eligibilty	3048112580)	6/30/2017	Kavuluru, Venkata	\$ 95,155	\$ 26,558	\$ 58,968	3 \$ 2,63	1,153	6,276	\$ 69,030	\$ (434)
14	Screening Approaches for Lung Cancer	3048112580	6/30/2016	Kavuluru, Venkata	\$ 54,845	\$ 54,845	\$ -	\$	\$ -	\$ -	\$ -	\$ -
14	Biomarker Discovery by Interrogating Lung Cancer lipid Metabolome	3048112440	6/30/2017	Fan, Whei-Mei	\$ 150,000	\$ 28,821	\$ 25,081	\$	\$ 6,060	3,114	\$ 34,255	\$ 86,924
14	Scope of 3048112439 KLF4 as a novel		6/30/2017	Watt, David	\$ 16,000				\$ 2,614			
14	biomarker and tumor suppressor in lung cancer	3048112439	6/30/2017	Liu, Chunming	\$ 134,000	\$ 48,214	\$ 42,113	3 \$	\$ 6,993	3 \$ 4,911	\$ 54,016	\$ 31,770
	Harnessing Advanced Genomic and Bioinformatics Technologies for indepth Molecular Characterization of											
14	Lung Adenocarcinoma	3048112384	6/30/2017	Wang, Chi	\$ 150,000	\$ 68,706	\$ (2,793) \$	\$ -	\$ (279)	\$ (3,072)	\$ 84,366
13	A Single-Arm Phase II study of thorascopic lung cancer staging with the use of intraoperative ultrasound at the time of definitive resection	3048113167	5/31/2017	Mahan, Angela (replaces Jeremiah Martin 3048102542)	\$ 140,472	\$ -	\$ 4,765	5 \$. \$ -	\$ 476	\$ 5,242	\$ 135,230
	A Single-Arm Phase II study of thorascopic lung cancer staging with the use of intraoperative ultrasound at the time of definitive											
13	resection Disseminating LCS through shared decision making: A web-based CE intervention for primary care	3048102542	5/31/2017	Martin, Jeremiah	\$ 9,528	\$ 9,786	\$ (234) \$	\$ -	\$ (23)	\$ (258)	\$ -
13	providers II Trial of Induction	3048113044	3/31/2018	Studts, Jamie	\$ 150,000	\$ 8,349	\$ 7,110	\$	\$ -	\$ 711	\$ 7,821	\$ 133,830
13	Chemotherapy and Low-Dose	3048111500	7/31/2017	Arnold, Susanne	\$ 150,000	\$ 26,565	\$ 24,321	\$	\$ 593	\$ 2,492	\$ 27,406	\$ 96,029
13	Biomarkers for Carcinogenesis related to Tobacco Optimization of Smoking Cessation	3048111498	6/30/2017	Izumi, Tadahide	\$ 150,000	\$ 109,061	\$ 31,736	5 \$	\$ 482	\$ 3,222	\$ 35,440	\$ 5,499
12	Strategies in Community Cancer Programs for Newly	3048110274	3/31/2017	Valentino, Joe	\$ 240,000	\$ 62,102	\$	- \$	- \$ 12,813	\$ 1,281	\$ 14,094	\$ 163,804
11	Mechanism of Redox Injury	3048109368	6/30/2017	St Clair, Daret TOTALS	\$ 73,344 \$ 2,305,092			- \$ 4,79 2	- \$ 4,745 2 \$ 53,220.57			

Kentucky Lung Cancer Research Program Annual Report FY2017

INSTITUTION: James Graham Brown Cancer Center, University of Louisville

Prepared By: Diane K. Konzen

SUBMITTED BY: Diane K. Konzen

DATE: <u>August 10, 2017</u>

	FROM STRATEGIC PLAN 2010	GOALS (Including Metrics)	Describe how endpoints have been met?	Challenges to attaining goals/revision of endpoints/timeframe?
GOAL 1:	Investigator Initiated Research (KRS 167.476(5)(a	a))		
	Recruit existing faculty in cancer research to focus on problems in the areas of tobacco control, lung cancer epidemiology, early detection/screening of lung cancer, and translational lung cancer research			Limited scientific interest in this area (although it is growing); limited research appeal due to limited national funding opportunities; open ended
	Recruit new faculty with interests and expertise in cancer that may be applied specifically to the lung cancer focus areas described above.		 One new faculty member was hired in the first quarter. Due to the change in leadership, no new faculty were recruited in quarters 2-4. Recruitment will be restarted in the next quarter: including that for two faculty to be recruited through a grant from the Leona M. and Harry B. Helmsley Charitable Trust; as well as the recruitment of three epidemiologists (who will 	Limited expertise available nationally; open ended
	Develop, mentor and focus early stage investigators/graduate students on lung cancer.		 Young investigators receive both formal and informal mentorship, which is available to more senior investigators if they request it. 4 junior investigators, 2 postdoctoral fellows and 2 UofL graduate students are receiving formal mentorship in lung cancer In addition, funding opportunities in lung cancer are being sought to support doctoral and post-doctoral fellows to encourage additional interest in the area 	Limited senior investigators available to mentor in lung cancer; openended
	Support a robust research portfolio in lung cancer at/between each University.		(including two to junior and one to a senior faculty members who were	

FROM STRATEGIC PLAN 2010	GOALS (Including Metrics)	Describe how endpoints have been met?	Challenges to attaining goals/revision of endpoints/timeframe?
1e. Develop intra-programmatic linkages within/between UofL/UK Cancer Centers	Encourage collaborative projects in each Cycle and/or in national funding each year	 One National Cancer Institute (NCI) grant was funded that includes an investigator from the UK/Markey; as well as one to an investigator at the UK/Markey which includes a UofL investigator New joint research projects continue to be discussed and preliminary research undertaken both internally and with UK/Markey researchers One joint project is being discussed for potential submission to the coming Cycle [Cycle 17] of KLCRP funding 	Distance between institutions; limited number of clinician-scientists interested in lung cancer
1f. Conduct annual scientists' seminars and separate poster sessions to share research results among funded KLCRP scientists	seminar exchange program between UK and UofL investigators	 Seminar organizers continually look for interested/interesting speakers to talk about lung cancer at both Universities; these seminars are open to all investigators. The Markey Cancer Center held the 8th joint Scientist Symposium there on October 15, 2016, to encourage scientific linkage between the two schools. The next symposium (# 9) will be held at the UofL in 2018. These symposia will be 	
Goal 2: Research in Early Detection & Prevention (KRS 16			
2a. Conduct screening and early detection research using available and applicable tools in key geographic areas of Ky	Ongoing		Limited expertise available; developing these tests for use outside the University is very expensive; open ended
2b. Develop/conduct studies in dissemination and implementation research of lung cancer screening	Open ended; any is good, more is better	1 project is being planned and a funding application will be submitted to the National Institutes of Health in the next year	
Expand and refine methods for risk-factor delineation	Ongoing		Overwhelming risk factors associated with smoking
2d. Validate the use of methods for lung cancer screening	Ongoing	 While two projects are under discussion, no research is being conducted at this time 	CT too costly for routine application and results disputed; need improved method(s)

FROM STRATEGIC PLAN 2010	GOALS (Including Metrics)	Describe how endpoints have been met?	Challenges to attaining goals/revision of endpoints/timeframe?
2e. Identify and develop methodologies for lung cancer prevention		Multiple projects are underway, including: • Development of a novel 'vaccine' against lung cancer (along with a KLCRP grant, this project received an active R21 grant from the NCI; the investigators are working with/organizing a consortium with researchers at Harvard University and University of Washington to continue, expand - and hopefully increase the pace of - this work) • Development of a lung cancer 'breath test' continues using identified biomarkers with a made-by-the investigators microreactor for very early detection of the disease (along with a KLCRP grant, a V Foundation grant was awarded for this work) • Identification of a potential new lung cancer biomarker (work continues slowly)	Overwhelming number of smoking risk factors and associated life style factors
2f. Maintain and expand the biospecimen repository for use by lung cancer researchers		A total of 5,835 specimens from 342 lung cancer patients are available, including: 13 malignant tumors; 17 normal adjacent tissues; 3,036 plasma samples; 1,266 serum samples; 1,479 buffy coats; 23 urine specimens In FY2017 the following specimens were added to the repository: • 1,032 specimens from 79 lung cancer participants (where lung cancer is the primary site), including: 52 malignant tumors; 29 normal adjacent tissues; 69 whole blood samples; 692 plasma samples; 155 serum samples; 32 buffy coats; 8 bronchial lavages • 242 lung cancer samples were distributed, including: 52 malignant tumors; 28 normal adjacent tissues; 69 whole blood samples; 92 plasma samples The above numbers include only those patients	Limited access to lung tissue; no surgery for advanced stage disease.
2g. Capitalize on partnerships with regional and local hospitals and clinics to build an early detection network where research is integral to the relationship	participating institutions; expand the network		Limited tools available; developing partnerships; worry over how expenses will be shared
2h. Link prevention and early detection studies	and efficient means to do this	held each year	Most effective prevention is to stop people from smoking; effective early detection is problematic and expensive
Goal 3: Kentucky Clinical Trials Network (KRS 167.476 (5)(b))		

	FROM STRATEGIC PLAN 2010	GOALS (Including Metrics)	Describe how endpoints have been met?	Challenges to attaining goals/revision of endpoints/timeframe?
3a.	Increase number of Kentuckians with access to and participating in lung cancer clinical trials	feasibility of patient populations seen	 ca. 45% of JGBCCC patients were accrued to available lung cancer trials a new location was added late in the last fiscal year (Medical Center Jewish Northeast), broadening the area in which JGBCC trials are available Working to make all JGBCC trials available through the KCTN 	While many trials are available, identifying those appropriate to the KY population is more difficult. Despite trial availability, not all appropriate patients are offered an opportunity to participate in a trial by treating clinicians. Obstacles reflect national problem of time availability in clinics and lack of support staff.
3b.	Develop and maintain a critical mass of trained professional staff to support multi-site clinical trials	 Increase data & project management support Increase number of clinical faculty in the area 	 Biostatistics Core has 3.5 FTE biostatisticians JGBCC lost a couple of trained professional staff and is looking to replace them as the number of patients continues to grow, recruitment for additional positions is underway (with additional clinical sites this is an on-going 	Availability of trained professionals in this area is linited nationally
3c.	Offer and manage industry-sponsored lung cancer clinical trials through the Network.	See UK report	JGBCC continues to develop, coordinate and participate in clinical trials that will be made available to all patients who qualify for them	
3d.	Identify and develop investigator-initiated clinical trials at both UK and UofL that can be offered to patients in diverse settings.	See UK report	JGBCC continues to develop investigator-initiated clinical trials to be made available to all patients who qualify for them. A couple of examples are: - Beta-glucan's Immuno-modulatory Effect on Non-Small Cell Lung Cancer - Protocol for the Cancer Database and Specimen Repository at the JGBCC - Micro-Nano Device for Exhaled Breath Analysis	Limited number of Investigator- Initiated Trials
21			- Optimization of Smoking Cessation Strategies in Commmunity Cancer Programs for Newly Diagnoised or Recurrent Lung and Head and Neck Cancer Patients (UK) and at least one other trial is planned in lung cancer for 3rd	
3e.	Continually improve the Network's services with input from practicing KY physicians.	See UK report	Input received continuously, especially from our partner institutions, and is discussed and/or implemented as appropriate and funds are available	
Goal 4:	NCI-Designation as Cancer Centers (KRS 164.476 (5)(c))		
	Expand the base of cancer research expertise, particularly in translational research, with the recruitment of both promising young scientists and established investigators working at the front lines of cancer research	Recruit both promising young and proven mature scientists	 One new young faculty member was recruited in FY2017 1 post-doctoral fellow was retained and promoted to assistant professor While no program was offered to high school students in 2017, JGBCC will again offer high school (17 in FY16) and early college undergraduate students (18 in FY17) an opportunity to work on and develop an interest in lung cancer 	Funding for salary support and recruitment packages, and - especially in the last two years - availability of laboratory space

	FROM STRATEGIC PLAN 2010	GOALS (Including Metrics)	Describe how endpoints have been met?	Challenges to attaining goals/revision of
				endpoints/timeframe?
4b.	Develop and maintain diverse cancer research	Develop/maintain at least	 After review and discussion, 'developmental biology'was folded into the 	Critical mass of faculty with NCI
	programs with a high degree of inter- and intra-	3 NCI-designable program	tumor immunology program; making 4 mature program areas with continued	funding
	team collaboration	areas	focused recruitment into each. Members in the programs are responsible for	
			the following:	
			 A multi-project program P01, an application specific to lung cancer, is being 	
			developed for submission to the National Cancer Institute	
			 A SPORE multi-project clinical & basic research funding application - also 	
			specific to lung cancer - is under discussion for submission to the NCI	
			• With a new director, the programs will be re-evaluated against current needs	

Financial Report Annual FY 2017 07/01/2016 - 06/30/17 University of Louisville

	Total Revenue. FY2000-2015	Expenditures FY2000-2015	E	ncumbrances	Balance
Investigator-Initiated Grants	16,553,481.16	14,214,572.88	\$	1,440,437.90	\$ 898,470.38
NCI Designation	8,964,148.02	7,411,586.93	\$	1,255,465.00	\$ 297,096.09
Early Detection	2,301,739.00	1,132,895.89	\$	-	\$ 1,168,843.11
Fellows	1,662,772.45	1,098,504.95	\$	225,000.00	\$ 339,267.50
Clinical Trials	1,935,203.56	\$ 1,768,007.62	\$	167,195.94	\$ -
Administration	1,490,377.62	\$ 950,223.62	\$	168,545.00	\$ 371,609.00
TOTALS	\$ 32,907,721.81	\$ 26,575,791.89	\$	3,256,643.84	\$ 3,075,286.08

					Qtr 1 FY2017	Report (7/1/16- 9/30/	16)			
			PERSONNEL	FRINGE BENEFITS	TRAVEL	OPERATING	CAPITAL OUTLAY	F&A	Total Expense	Balance
KLCR Program Title	Total Revenue FY2000-2017	Expenditures FY2000-2016								
Investigator Initiated Grants	16,553,481.16	13,481,534.04	\$ 92,257.22	\$ 25,722.41	\$ -	\$ 15,264.49	\$ -	\$ 13,324.45	\$ 146,568.57	2,925,378.55
NCI Designation	8,964,148.02	6,388,453.47	\$ 152,522.82	\$ 39,644.82	\$ 6,120.84	\$ 89,188.22	\$ -	\$ -	\$ 287,476.70	2,288,217.85
Early Detection	2,301,739.00	1,132,895.89			\$ -		\$ -	\$ -	\$ -	1,168,843.11
Fellows	1,662,772.45	1,069,078.49	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	593,693.96
Clinical Trials	1,935,203.56	1,581,788.83	\$ 30,481.06	\$ 9,048.95	\$ -	\$ -	\$ -	\$ -	\$ 39,530.01	313,884.72
Administration	1,490,377.62	847,259.07	\$ 27,193.11	\$ 6,899.62	\$ -		\$ -	\$ -	\$ 34,092.73	609,025.82
TOTALS	32,907,721.81	24,501,009.79	302,454.21	81,315.80	6,120.84	104,452.71	-	13,324.45	507,668.01	7,899,044.01

					Qtr 2 FY2017 R	eport (10/1/16 - 12/31	/16)			
			PERSONNEL	FRINGE BENEFITS	TRAVEL	OPERATING	CAPITAL OUTLAY	F&A	Total Expense	Balance
KLCR Program Title	Total Revenue FY2000-2017	Expenditures FY2000-Qtr 1 2017								
Investigator Initiated Grants	16,553,481.16	13,628,102.61	\$ 83,363.50	\$ 23,620.67	\$ -	\$ 60,998.69		\$ 16,798.19	\$ 184,781.05	\$ 2,740,597.50
NCI Designation	8,964,148.02	6,675,930.17	\$ 160,307.08	\$ 41,657.97	\$ 9,637.34	\$ 50,105.56	\$ -		\$ 261,707.95	\$ 2,026,509.90
Early Detection	2,301,739.00	1,132,895.89							\$ -	\$ 1,168,843.11
Fellows	1,662,772.45	1,069,078.49	\$ 5,160.46	\$ 1,461.71					\$ 6,622.17	\$ 587,071.79
Clinical Trials	1,935,203.56	1,621,318.84	\$ 31,825.74	\$ 9,636.27					\$ 41,462.01	\$ 272,422.71
Administration	1,490,377.62	881,351.80	\$ 16,421.91	\$ 4,768.98		\$ 1,000.00			\$ 22,190.89	\$ 586,834.93
TOTALS	32,907,721.81	25,008,677.80	297,078.69	81,145.60	9,637.34	112,104.25	-	16,798.19	516,764.07	\$ 7,382,279.94

					Qtr 3 FY2017	Report (1/1/17 - 3/31)	/17)			
			PERSONNEL	FRINGE BENEFITS	TRAVEL	OPERATING	CAPITAL OUTLAY	F&A	Total Expense	Balance
KLCR Program Title	Total Revenue FY2000-2017	Expenditures FY2000-Qtr 2 2017								
Investigator Initiated Grants	16,553,481.16	13,812,883.66	\$ 106,899.95	\$ 24,066.96		\$ 33,205.34		\$ 16,417.25	\$ 180,589.50	\$ 2,560,008.00
NCI Designation	8,964,148.02	6,937,638.12	\$ 153,970.74	\$ 42,613.05	\$ 2,520.40	\$ 33,463.26	;		\$ 232,567.45	\$ 1,793,942.45
Early Detection	2,301,739.00	1,132,895.89							\$ -	\$ 1,168,843.11
Fellows	1,662,772.45	1,075,700.66	\$ 8,308.29	\$ 3,093.85					\$ 11,402.14	\$ 575,669.65
Clinical Trials	1,935,203.56	1,662,780.85	\$ 41,014.62	\$ 12,677.15					\$ 53,691.77	\$ 218,730.94
Administration	1,490,377.62	903,542.69	\$ 12,214.31	\$ 4,029.69		\$ 11,284.25			\$ 27,528.25	\$ 559,306.68
TOTALS	32,907,721.81	25,525,441.87	322,407.91	86,480.70	2,520.40	77,952.85	-	16,417.25	505,779.11	\$ 6,876,500.83

				QTR 4 FY2017 Report (04/01/17 - 6/30/17)								
			PERSONNEL	FRINGE BENEFITS	TRAVEL	OPERATING	CAPITAL OUTLAY	F&A	Total Expense	Balance		
KLCR Program Title	Total Revenue FY2000-2017	Expenditures FY2000-Qtr 3 2017										
Investigator Initiated Grants	16,553,481.16	13,993,473.16	\$ 108,519.23	\$ 26,573.16	\$ 1,807.62	\$ 64,099.70		\$ 20,100.01	\$ 221,099.72	\$ 2,338,908.28		

NCI Designation	8,964,148.02	7,170,205.57	\$ 152,729.01	\$ 42,004.49	\$ 6,055.67	\$ 40,592.19			\$ 241,381.36	\$ 1,552,561.09
Early Detection	2,301,739.00	1,132,895.89							\$ -	\$ 1,168,843.11
Fellows	1,662,772.45	1,087,102.80	\$ 8,308.29	\$ 3,093.86					\$ 11,402.15	\$ 564,267.50
Clinical Trials	1,935,203.56	1,716,472.62	\$ 39,608.52	\$ 11,926.48					\$ 51,535.00	\$ 167,195.94
Administration	1,490,377.62	931,070.94	\$ 13,007.36	\$ 4,145.32		\$ 2,000.00			\$ 19,152.68	\$ 540,154.00
TOTALS	32,907,721.81	26,031,220.98	322,172.41	87,743.31	7,863.29	106,691.89	-	20,100.01	544,570.91	\$ 6,331,929.92

					Annual FY2017	Report (7/1/16 - 6/30)	/17)				
			PERSONNEL	FRINGE BENEFITS	TRAVEL	OPERATING	CAPITAL OUTLAY	F&A	Total Expense	Project Encumbrances	Balance
KLCR Program Title	Total Revenue FY2000-2017	Expenditures FY2000-2017									
Investigator Initiated Grants	16,553,481.16	14,214,572.88	\$ 391,039.90	\$ 99,983.20	\$ 1,807.62	\$ 173,568.22	\$ -	\$ 66,639.90	\$ 733,038.84	\$ 1,440,437.90	\$ 898,470.38
NCI Designation	8,964,148.02	7,411,586.93	\$ 619,529.65	\$ 165,920.33	\$ 24,334.25	\$ 213,349.23	\$ -	\$ -	\$ 1,023,133.46	\$ 1,255,465.00	\$ 297,096.09
Early Detection	2,301,739.00	1,132,895.89	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,168,843.11
Fellows	1,662,772.45	1,098,504.95	\$ 21,777.04	\$ 7,649.42	\$ -	\$ -	\$ -	\$ -	\$ 29,426.46	\$ 225,000.00	\$ 339,267.50
Clinical Trials	1,935,203.56	1,768,007.62	\$ 142,929.94	\$ 43,288.85	\$ -	\$ -	\$ -	\$ -	\$ 186,218.79	\$ 167,195.94	\$ -
Administration	1,490,377.62	950,223.62	\$ 68,836.69	\$ 19,843.61	\$ -	\$ 14,284.25	\$ -	\$ -	\$ 102,964.55	\$ 168,545.00	\$ 371,609.00
TOTALS	32,907,721.81	26,575,791.89	1,244,113.22	336,685.41	26,141.87	401,201.70	-	66,639.90	2,074,782.10	\$ 3,256,643.84	\$ 3,075,286.08

Kentucky Lung Cancer Research Program Personnel Report FY2017 Report (7/1/16- 6/30/17)

Acct No	Initiatives by Goal	Role	Individual	FTE %	New/Existing		Salary		Fringe
GB170024A1	NCI -Designation								
		Postdoctoral Associate	Traci Kruer	100%	Existing	\$	4,965.15	\$	1,405.76
		Biostatistician	Jianmin Pan	80%	Existing	\$	64,839.73	\$	19,276.52
		Director Biostatistics	Shesh Rai	18%	Existing	\$	49,368.69	\$	9,350.11
		Research Scientist	David Ban	100%	Existing	\$	66,110.04	\$	17,415.77
		Tissue Biorepository Manager	Andrei Smolenkov	100%	Existing	\$	62,940.00		20,626.29
		Biomedical Engineer	Christopher Worth	100%	Existing	\$	64,215.00		20,580.56
		Research Scientist	Mark Doll	36%	Existing	\$	30,869.13	\$	9,370.66
		Graduate Research Assistant	Bindu Hegde	100%	Existing	\$	21,724.80	\$	2,351.77
		Associate Professor	Donghan Lee	25%	Existing	\$	40,999.95	\$	9,117.98
		Research Technologist I	Mark Dela Cerna	100%	New	\$	28,812.00	\$	9,671.76
		Systems Programmer IV	Jonathan Maguire	25%	New	\$	12,877.00	\$	4,059.45
		Postdoctoral Associate	Nazimuddin Nazimuddin	100%	New	\$	43,798.06	\$	9,198.33
		Professor	John Trent	1%	New	\$	767.05	\$	179.45
		Professor	Jun Yan	2%	New	\$	1,949.65	\$	431.28
			Total			\$	494,236.25	\$	133,035.69
GB170024	Administration		333333		Existing				
		KLCRP Coordinator	Diane Konzen	35%	Existing	\$	24,133.55	\$	7,008.02
		Sr. Assoc. Director, Administration	Milton Pierson	25%	Existing	\$	13,657.82	\$	3,023.93
26		KLCRP Financial Coordinator	Courtney Jenkins	50%	Existing	\$	28,978.02	\$	9,811.66
0)									
0047000404			Total			\$	66,769.39	\$	19,843.61
GB170024B1	Early Detection Program		None						
			Total			\$	-	\$	-
GB170024E1	Lung Fellowship Program								
		Fellow	Sobha Bodduluri	100%	Existing	\$	21,777.04	\$	7,649.42
			Total			\$	21,777.04	\$	7,649.42
GB170024C1	Clinical Trial Program	Mgr., Research Nursing	Karen Carter	50%	Existing	\$	55,518.38	\$	14,576.00
		Lab Research Coordinator		35%	Existing	\$	20,264.31	\$	6,778.34
		Clinical Research Coordinator		55%	Existing	\$	45,977.78		15,206.71
		Clinical Research Nurse		30%	Existing	\$	19,810.48		6,262.66
		Cirrical Nesearch Nuise	Jenniner Schoenbachier	30 76	Lasting	Ψ	19,010.40	Ψ	0,202.00
			~			*	444 570 05	<u> </u>	40.000 =
			Total	1		\$	141,570.95		42,823.71
				Annual		\$	724,353.63	Φ	203,352.43
				FY 2017		\$	927,706.06		

Investigator Initiated Grants June 30, 2017

FY17 Expenses

Balance		_	,	1	1		ı	1	1	32,947.46	·	ı	ı	ı	1	ı		1,748.61	1
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Total Costs	ı	-	'	1	'	,	'	·	1	,	,	'	,	ı	'		,	1	'
Commitments	\$			φ.			\$												
F&A costs		- \$	\$		٠	· \$	\$												
Operating Expenses	٠	\$			٠.														
Travel	•		\$		· ·	\$			\$	\$	\$	· ·	\$		\$		\$		· ·
Personnel + Fringe	₩.	\$			٠	\$	· •												
Previous Expense	144,876	145,773	149,425	150,000	74,641	72,052	103,720	149,040	150,000	117,053	144,693	146,413	150,000	149,775	92,890	150,000	149,228	148,251	149.917
*	144,876 \$	145,773 \$	149,425 \$			72,052 \$		149,040 \$		150,000 \$	144,693 \$		0	149,775 \$	\$ 890		149,228		149.917
Budget	v۶	\$	\$	❖	\$	\$	\$	❖	\$	\$	⊹	❖	\$	�	\$	❖		٧٠	v,
Investigator	Gupta, Ramesh	Li, Xiao-feng	Clem, Brian	Jala, Venkatakrishna	Donninger, Howard	Wattenberg, Brian	Gercel-Taylor, Cicek	Yan, Jun and Kloecker, Goetz	McGregor, W. Glenn and States, J. Christopher	Fan, Teresa	Chesney, Jason	Gupta, Ramesh	Li, Yong	Yaddanapudi, Kavitha	Li, Chi	Ding, Chaulin	Wattenberg, Brian	Donninger, Howard	Mitchell. Robert
Close Date	11/30/2013	10/31/2011	10/31/2011	10/31/2011	10/31/2011	10/31/2011	10/31/2011			11/30/2012	11/30/2012	11/30/2012	4/30/2014	4/30/2014	5/1/2012	7/1/2012	4/30/2014	3/1/2013	3/1/2013
UofL Account #	OGMB071063	OGMB091526	OGMB091527	OGMB091529	OGMB091531	OGMB091534	OGMB091547	OGMB101369	OGMB101372	OGMB101380	OGMB101383	OGMB101407	OGMB120493	OGMB120510	OGMB120516	OGMB120517	OGMB120518	OGMB130366	OGMB130397
Grant	Effect of Estrogen on Polyclclic Aromatice Hydrocarbon-Mediated	Visualization of Hypoxias and Angiogenesis	Novel Small Molecule Inhibitors of Choline Kinase	Role of GPR30m: A Novel Estrogen Receptor G-Protein	The Role of Novel Ras Effecto, RASSF2	Identification and Testing of Small Molecule Inhibitor to Sphingosine Kinase I	Exosomal microRNA Profiles for Diagnosis	Combined Orally Administered Beta- Glucan	The Role of Rev-1 in Carcinogen induced Lung Cancer	Stable isotope-resolved Metabolomics	Controlled Inhibition of the Glycolytic Pathway	Activation of the Par-4 Extrinsic Pathway	The Role of MiR-301a in NF-kB Activation and Lung Cancer	New Approaches for Eliminating Lung Cancer	Activating Bax as a Therapeutic Strategy	Beta-glucan Modulats Differentiation and Function	Targeting Sphingolipid Metabolism in Lung Cancer	Smalll Molecule Inhibitors of Pro- InflammatoryCytokines	Metabolic Stress Adaptation by MIF Family Members
Cycle	7	6	6	თ	<u>ი</u>	ത	6	10	10	S 10	10 t	10	ir 11	11	11		11	12 lr	12

		5,629.25		0.00	(20.17)	7,565.66	(11,202.41)	59,399.04	116,199.48	75,600.62	54,389.50	8,422.50	57,810.94	107,239.62	132,224.65	29,539.61	129,991.89	41,542.90
⋄	\$	\$	⋄	₩	•	₩	-	-	-	₩	₩.	v	₩	₩.	₩	₩	φ.	⋄
34,571.06	1	676.25	,	(300.54)	29,951.47	23,866.83	150,671.55	17,354.26	12,273.43	47,914.49	40,467.26	57,253.76	6,383.92	39,273.39	16,656.24	120,460.39	18,516.73	108,457.10
3		2		(2	93	0	7	∞	9	9	6	20	0	0	4	1	3	0
3,143		62		(27)	2,723	2,170	13,697	1,578	1,116	4,356	3,679	5,205	280	3,570	1,514	10,951	1,683	098'6
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23,911		615		(273)	(1)	1		1	9,151			28,			1,674	28,483		19,110
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7,518					23,778	2,658	129,290		2,007	38,282	35,940	23,926	281	33,971	13,468	81,026	16,382	79,487
\$		10	0	0	♦				\$						φ.	₩.		₩.
115,118	149,863	143,695	52,830	150,119	120,069	118,568	10,531	73,247	21,527	26,485	55,143	84,324	85,805	3,487	1,119		1,491	
\$ 68		\$ 00							\$ 00						\$ 00	٠ 0		\$ 00
149,689	149,863	150,000	52,830	149,818	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000
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Sharma, Rajesh	Bates, Paula	Klinge, Carolyn	Yalcin, Abdullah	Beverly, Levi	Fu, Xiao-An and Bousamra, Michael	Sephton, Sandie	El-Baz, Ayman	Telang, Sucheta	Yan, Jun	States, J Christopher	Zhou, Heshan Sam	Schaner-Tooley, Christine	Bodduluri, Haribabu	Clark, Geoffrey	Imbert-Fernandez, Yoannis	Tse, William	Guo, Haixun	Li, Qingsheng
3/1/2013	3/1/2013	3/1/2013	3/1/2013	3/1/2014	3/1/2014	3/1/2014	3/1/2014	3/1/2014	6/1/2015	6/1/2015	6/1/2015	6/1/2015	6/1/2015	6/1/2016	6/1/2016		6/1/2016	6/1/2016
OGMB130407	OGMB130409	OICB130438	OGMB130420	OGMB140472	OGMB140460	OGMB140436	OGMB140428	OGMB140456	OGMB150435	OGMB150446	OGMB150463	OGMB150447	OGMB150494	OGMB160425	OGMB160444	OGMB160465	OGMB160514	OGMB160490
Tight Junction Protein, Claudin 9 as Novel Mediator	Exploiting the Stressed Out Nature of Cancer Cells	Regulation of MicroRNA's in Lung Adenocarcinomas	Investigation of the Role of PFKFB3 in EMT and Metastasis	The N-end Rule Ubiquination Pathway as Novel Driver	Analysis of Cancer Metabolites in Exhaled Breath for Diagnosis	Understanding he Prognostic significance of Circadian Disruption	Joint Probabilistic Models for Early Diagnosis of Malignant	Co-targeting 6- Phosphofructo-2- Kinase Fructose 2,6 Bis	MAF in Lung Cancer- associated Macrophages	Targeting the Anaphase Promoting Complex as Lung Cancer Chemotherapy	Dietary Supplement Indole-3-Carbinol in Lung Cancer Therapy and Prevention	Naturally Occurring Methyltransferase Mutations and Their Role in Promoting Lung Cancer	Role of Neutrophils in Crystalline Silica- Mediated Lung Cancer Promotion	Novel small molecule inhibitors of the Ras Oncoprotein for Lung cancer	Regulation of Glucose Utilization by Estradiol in Lung Cancer	Characterization of AF1q in Carbon Nanotubes (CNT)	In vivo investigation of particulate β-glucan in lung cancer mouse model	Inhaled IL-10 for prevention and therapy of lung cancer
12	12	12	12	13	13	13	13	13	14	14	14	14	14	15	15	15	15	15

149,852.50	142,158.24	150,000.00	149,398.01	1,440,437.90
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OGMB170503	OGMB170509	OGM8170520	OGMB170558	
Delineating the Metabolic and Non- metabolic Requirements for Phosphoserine Aminotransferase (PSAT1) in Lung Cancer Progression and Invasion	Targeting the Human Telomere Complex in Lung Cancer	A Novel Immunotherapeutic Approach for the Treatment of Lung Cancer	Statistical Methods for Modeling and Prediction of Lung Cancer Clinical Data	
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