



**The College of Medicine COMMITS\* to  
Campus, Community, and Commonwealth**

**Robert S. DiPaola, MD  
Dean, College of Medicine**



**\*COMMITS: College Of Medicine Map to Impact through  
a Transdisciplinary Strategy**



# College of Medicine: By the Numbers

## Four Campus Locations



**\$112M** in  
Federal Funding;  
**\$163.9M** Total  
Annual Funding

**996 Full-time** and  
**208 Part-time**  
Basic Science and  
Clinical Faculty

**10,500 Alumni**  
who practice in  
all 50 states and  
26 countries

**575**  
Medical  
Students

**814**  
Residents  
and  
Fellows

**231**  
PhD and  
Masters  
Students

**18**  
Clinical  
Departments

**7**  
Basic  
Science  
Departments

**23**  
Centers  
and  
Institutes

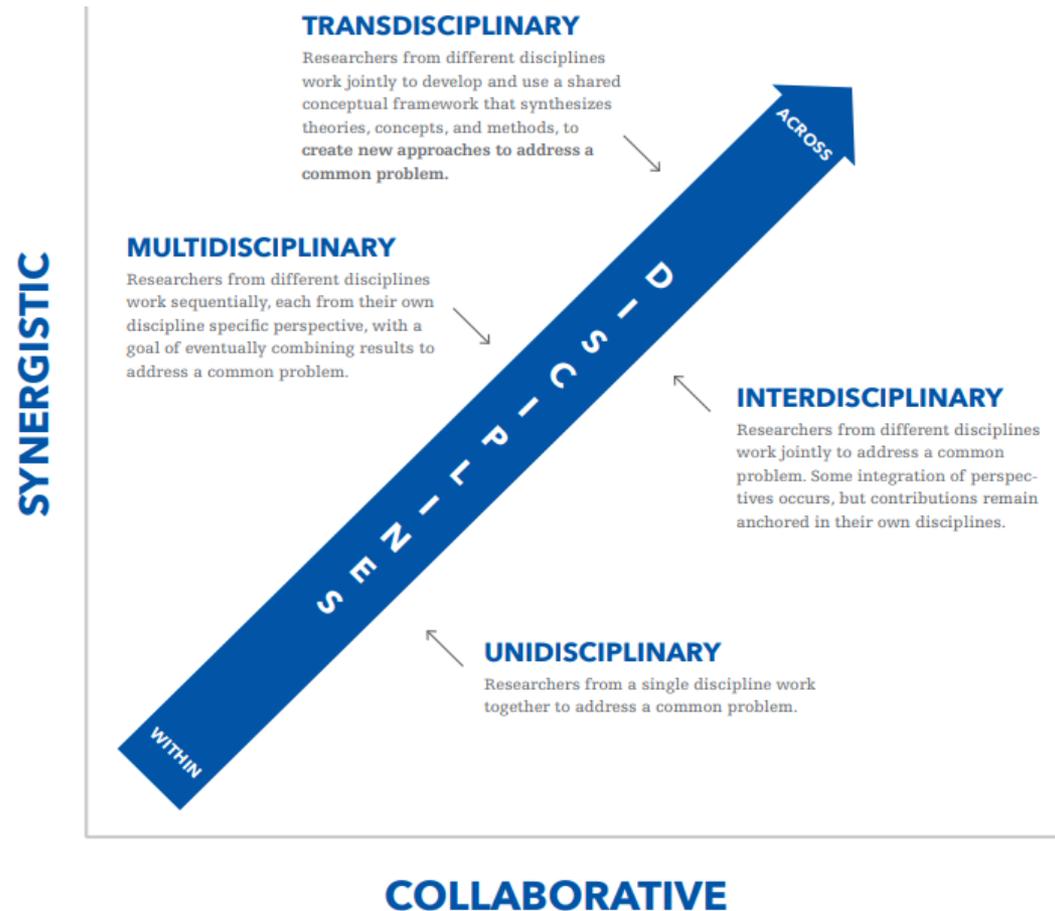


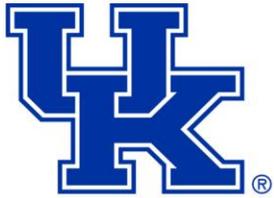


# A Transdisciplinary Vision and Strategy: A Diverse (Transdisciplinary) Team Starting with Key Questions

“Judge a man by  
his **questions**  
rather than his  
answers.”

- *Voltaire*





# Strategic Pillars and Enablers

PILLARS



EDUCATION



RESEARCH



CLINICAL  
CARE



DIVERSITY  
& INCLUSION



COMMUNITY  
ENGAGEMENT

- 26 Goals
- 111 Tactics
- 159 Metrics

ENABLERS



COLLEGE  
COMMUNITY  
WELL-BEING



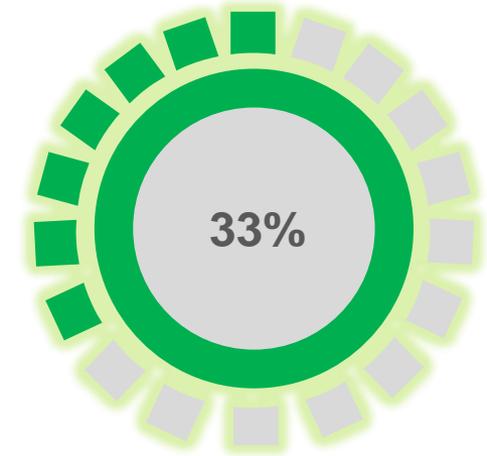
FACILITIES



INFORMATION  
TECHNOLOGY



ACCOUNTABILITY  
& FISCAL  
RESPONSIBILITY



**Monitoring:  
Completion as of  
March 2019**



# Liaison Committee on Medical Education (LCME) Accreditation Visit

September 21 – October 18, 2018

Accredited until 2026

- Success through strong leadership, faculty, staff, and student effort, including approval of new campuses
- Longest Liaison Committee on Medical Education site visit in U.S. history
- Of the 93 elements, the UK College of Medicine was only rated unsatisfactory in three
- Plans are in place to monitor and improve those areas of our College, particularly diversity and inclusion and student debt



# Ongoing Diversity and Inclusion Activities

- New leadership (Associate Dean of Diversity and Inclusion)
- Training (Unconscious Bias Training)
- Additional focus on inclusion and wellbeing (student-led groups such as “Resilient”)
- New partnerships
- UK College of Medicine Class of 2022
  - **50.6%** Female
  - **3.6%** African-American/Black
  - **4.8%** Hispanic/Latino(a)
- Faculty efforts in recruitment, retention, and inclusion



## Increased Philanthropy Activity

- Increased alumni/philanthropy engagements
  - Visits to: California, Florida, Northern and Western Kentucky, Ohio, New York, and Washington
- Increased scholarship funding
  - \$2.5 million from St. Elizabeth Healthcare in 2018
  - Endowed scholarship campaign for Northern Kentucky students
  - Bowling Green scholarship fundraising is ongoing
  - Proposals totaling \$1 million already in 2019
- Reboot of the Medical Alumni Association



# UK College of Medicine-Bowling Green Campus Launched in 2018

- Partnership with Med Center Health and Western Kentucky University
- When fully operational, the Bowling Green Campus will increase the size of the College of Medicine by 120 students (20 percent)
- Eight residency and fellowship programs in Bowling Green have transitioned to the UK College of Medicine Graduate Medical Education (GME)
- Scholarship funding secured





## Ribbon-Cutting Ceremony Remarks from the Mayor of Bowling Green

“There are four game-changing events in the history of Bowling Green. In the 1850s, we convinced L&N Railroad to reestablish their line a little bit farther west than they had planned. In 1906, Western Kentucky University started its operation here. In the 1960s, we were able to get I-65 meandered over to this direction. And today, 2018, this is a game-changing day for Bowling Green.”

– *Bruce Wilkerson,*  
*Mayor of Bowling Green*





# UK College of Medicine-Northern Kentucky Campus

- UK College of Medicine-Northern Kentucky Campus
  - Opening Fall 2019
  - 35 students per class
  - When fully operational, the campus will increase the class size by 140
  - Partnership with NKU and St. Elizabeth Healthcare
- Liaison Committee on Medical Education (LCME)-approved
- Southern Association of Colleges and Schools (SACS)-approved
- Scholarship funding secured





# Rural Physician Leadership Program (RPLP) in Morehead

- Inaugural class of five students in 2010
- 10 students accepted each subsequent year
- Accepted students increased to 12 in 2018-19 due to high demand
- For the 59 students who have graduated from the program:
  - 61.2% entered primary care specialties
  - 20.3% entered family medicine
- 19 RPLP graduates have finished their residencies and entered practice
  - 16 practice in Kentucky
  - 14 practice in rural areas
  - Five returned as RPLP faculty in Morehead





## Class of 2019 Match Day

- **48%** of the class of 2019 (64 students) will enter primary care residency programs (internal medicine, pediatrics, medicine-pediatrics, and family medicine)
- **42** students will complete their residency at UK
- Students matched into **25 different specialties**





# New Biomedical Education Programs

- 3,894 undergraduate students in 78 courses were taught by the College of Medicine
- Master of Medical Physics
- New Master of Forensic Toxicology and Analytical Genetics
  - Accepting students for the fall 2019 semester
  - The only program of its kind in the state, and only the fifth professional masters degree program in the field of forensics in the nation
  - Co-directed by Isabel Mellon, PhD and Davy Jones, PhD
- New Minor in Pharmacology
  - Launched the Spring 2019 semester
  - Initiative led by Michael Kilgore, PhD



Isabel Mellon, PhD



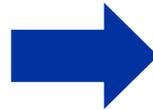
Davy Jones, PhD



Michael Kilgore, PhD



# Future of Medicine Bonds Research, Clinical Care, and Education Missions



Glod et al. *J of Personalized Med*: 4:401, 2014



# Research Focus Areas

(Aligned with the Vice President for Research priority areas)



**Substance Use Disorders**



**Diabetes/ Obesity**



**Cancer**



**Neuroscience**



**Cardiovascular Disease**

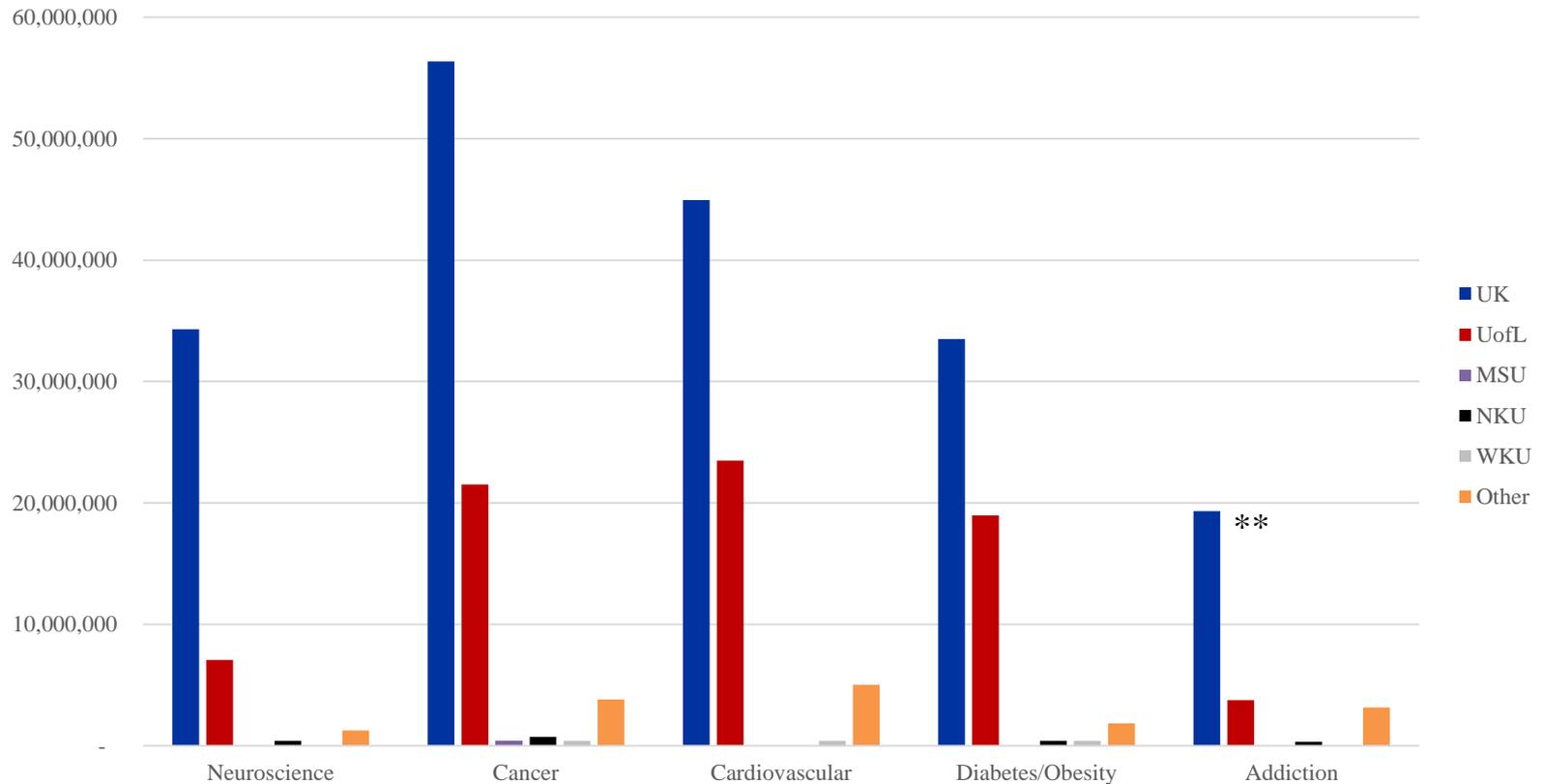


**Emerging Areas**



# Active National Institutes of Health (NIH) Awards in the Signature Areas\*

Active NIH Awards as of April 18, 2019



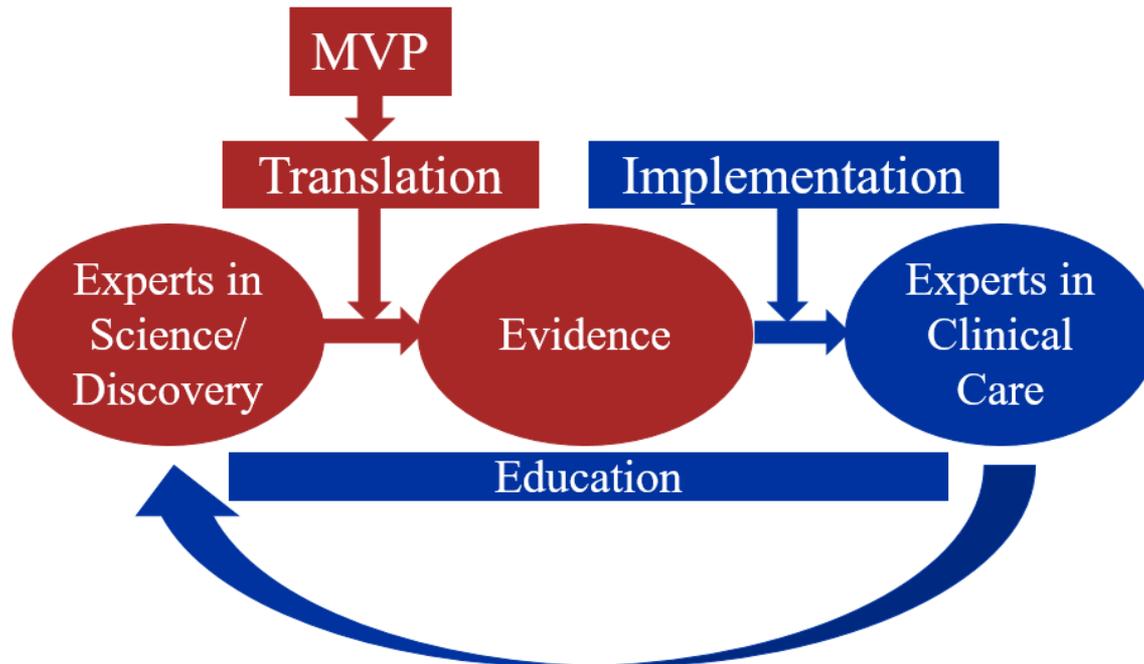
\*NIH Research Portfolio Online Reporting Tools (RePORT)

\*\* This does not include the recently awarded HEAL grant



# Multidisciplinary Value Program (MVP): A Program Designed to Bridge Discovery to Clinical Care and Educational Impact

Supported by the College of Medicine, Vice President  
for Research (VPR), and Center for Clinical and  
Translational Science (CCTS)





# Transdisciplinary Research Growth Strategy

Teams supported by the College of Medicine, VPR,  
CCTS, Center for Health Services Research

Initiative	Topic	Collaborating Colleges
MVP	The INFUSE trial: Intervening with Platelet Transfusions in Septic Patients	Medicine and Public Health
MVP	Altered Lipid Metabolism as a Novel Target for Colon Cancer Treatment	Medicine and Public Health
MVP	Early Intra-Articular Anti-Inflammatory Treatment after ACL Injury and Reconstruction. A Randomized Clinical Trial	Medicine, Public Health, and Health Sciences
MVP	The CATS-CARE Clinical Trial: Improving Addiction Treatment for Hospitalized Opioid Dependent Patients with Infective Endocarditis	Medicine
MVP	Treatment of Fused in Sarcoma-Related ALS with Betamethasone	Medicine, Pharmacy, and Health Sciences
MVP	Assessing Effects of Electronic Cigarettes on Airway Resistance in Asthma	Medicine, Nursing, and Arts and Sciences
MVP	Application of Theory and Evidence to Promote Full Recovery from Pediatric Injury	Medicine
MVP	Magnesium And Verapamil After Recanalization in Ischemia of the Cerebrum (MAVARIC) in the Kentucky Regional Population: a Clinical and Translational Study	Medicine
VI2P	Tobacco Use in Pregnancy Intervention for Cessation (ToPIC)	Medicine and Nursing
VI2P	Partnership for Identification and Primary-Care Based Enrollment to a Prevention Intervention for Diabetes (PIPE to Prevent Diabetes)	Medicine
VI2P	Implementing Oncology Precision Medicine in Kentucky	Medicine and Pharmacy
VI2P	Adaptation and Pilot Implementation of the Family Check-Up for Deaf and Hard of Hearing Children	Medicine and Public Health
Alliances	Aortopathy Alliance Research Center	Medicine
Alliances	Kentucky Research Alliance for Lung Disease	Medicine
Alliances	Epilepsy and Brain Metabolism Alliance	Medicine



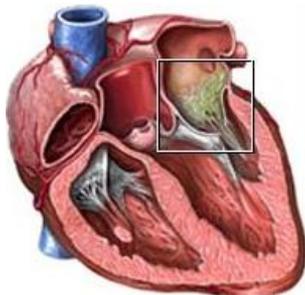
# MVP: Combining opioid Addiction Treatment with CARE for infectious Endocarditis (CATS-CARE)

## Goals:

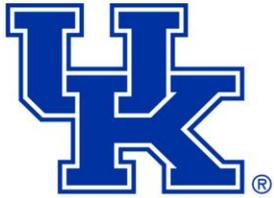
- To provide evidence-based treatment of opioid addiction in the hospital and after discharge
- To assess feasibility/safety of discharging patients to outpatient care to complete IV antibiotics rather than remaining inpatient for long stays

## Initial outcomes:

- 100% of patients completed antibiotic regimen
- 23-day reduction in length of stay
- After four weeks, 80% of the outpatient group were in remission of opioid use



**Medication-Assisted Treatment  
for Opioid Addiction**



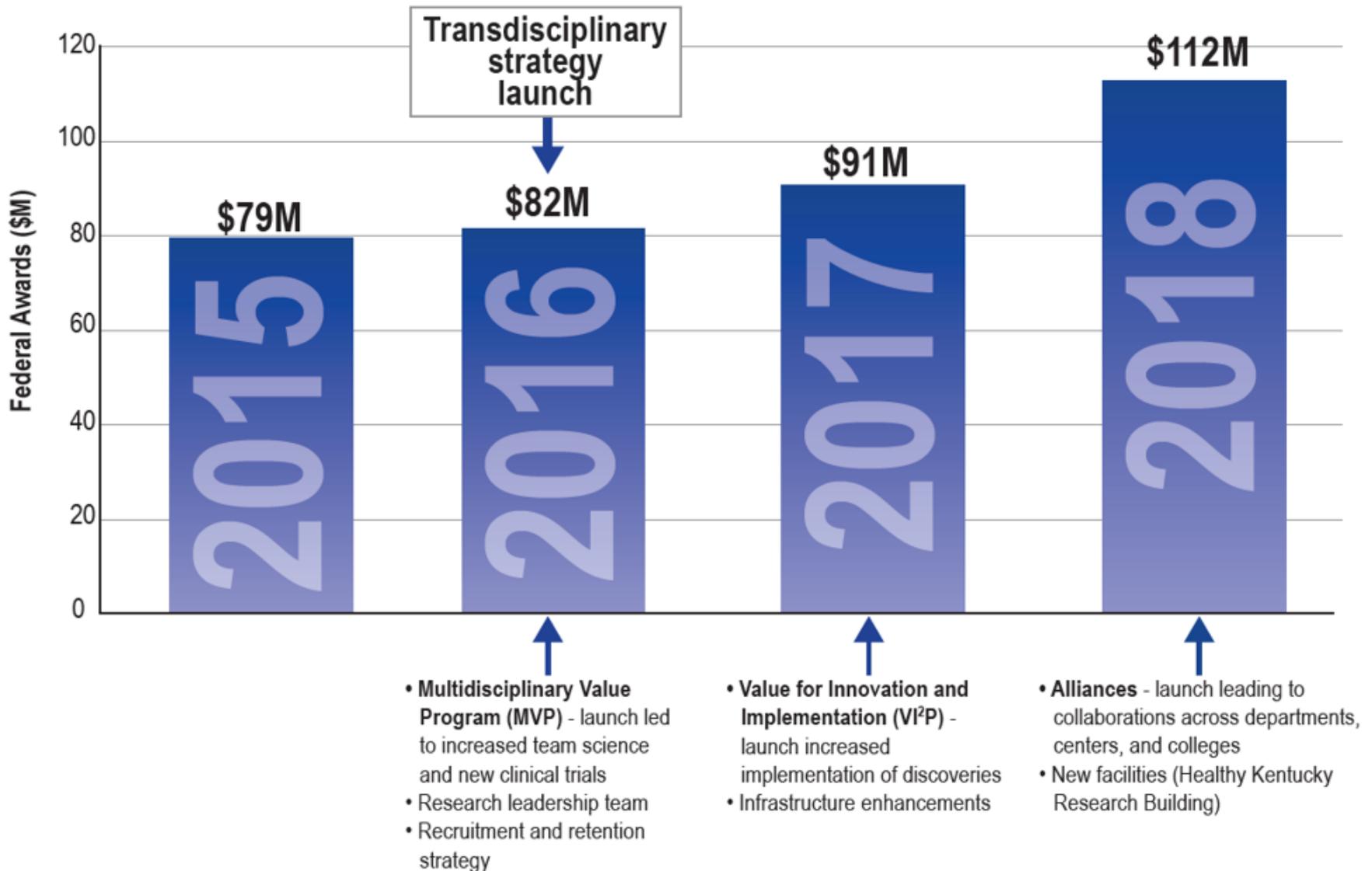
# Multidisciplinary Value Program (MVP) Preliminary Outcomes

*Outcomes so far (based on available info)\**

	Manuscripts Submitted	External Grants Submitted/(Awarded)
MVP Round 1	10	24 (8)
MVP Round 2	7	8 (4)
Total	17	32 (12)

\* Several additional abstracts, manuscripts, and grant applications are reported as in progress.

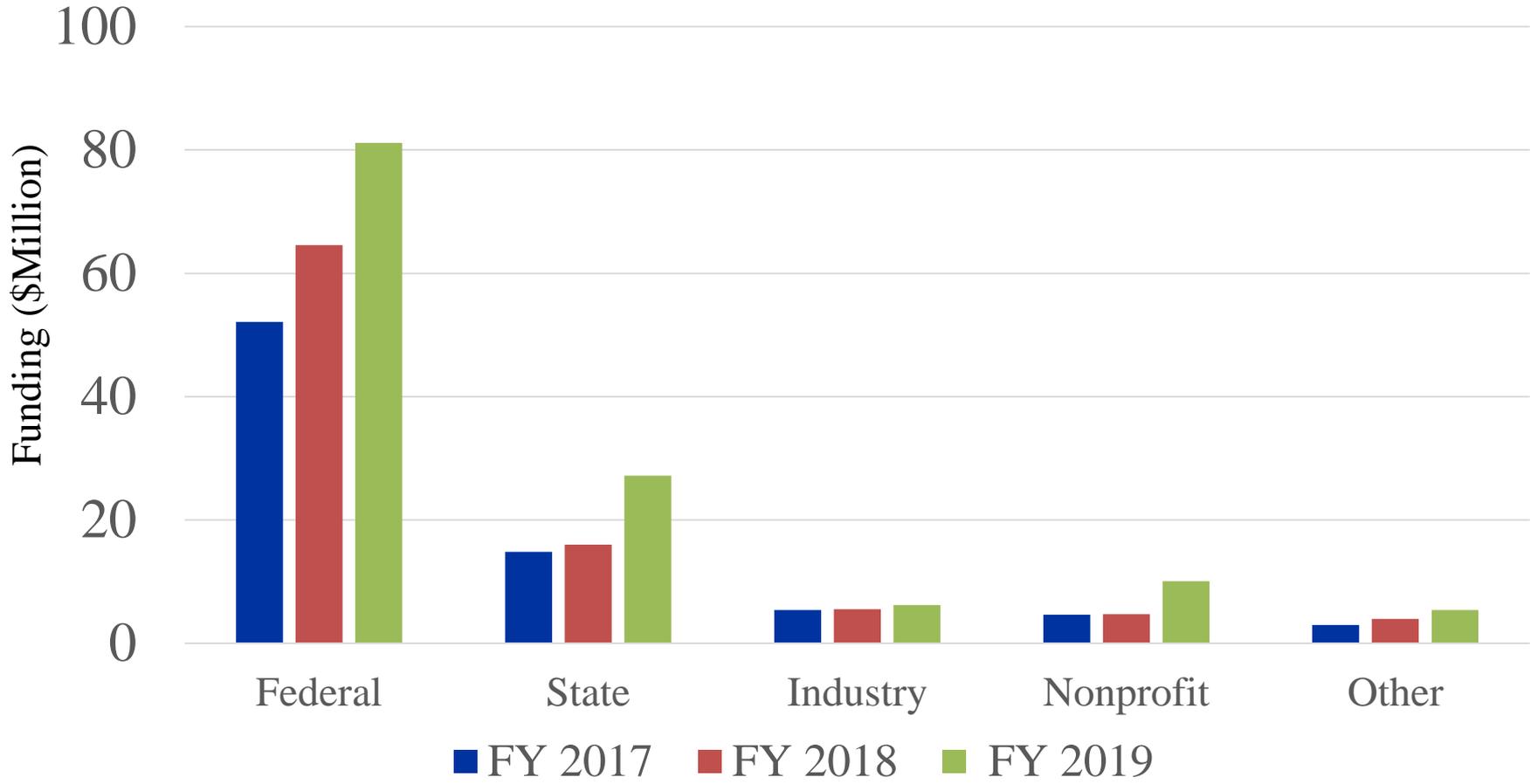
# The College of Medicine Transdisciplinary Strategy to Grow Research and Impact Clinical Care





# Research Funding

(End of February)





# Future Funding

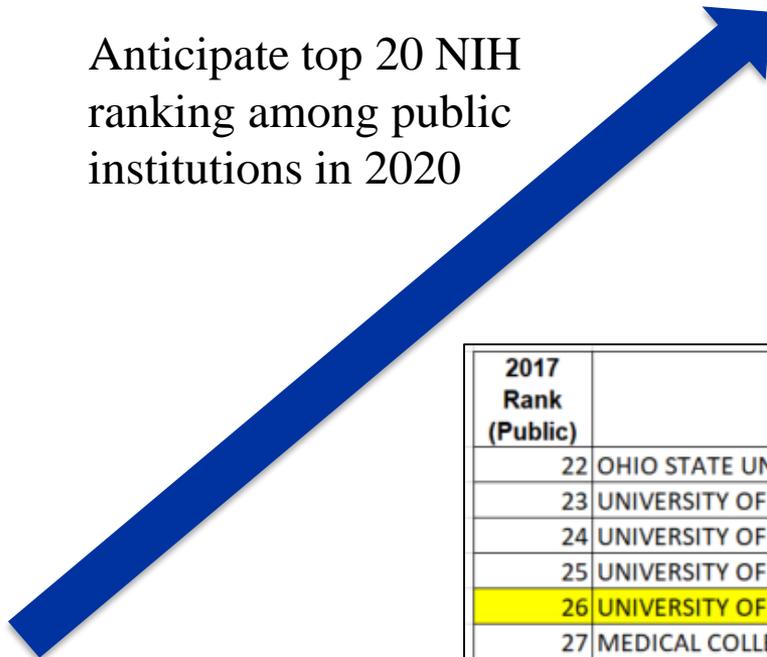
- Current fiscal year-to-date funding has already exceeded FY18 total funding
- UK was awarded (Principal Investigator Dr. Sharon Walsh and team) **\$87.1 million to support Kentucky CAN HEAL** (Communities and Networks Helping End Addiction Long-term)





# Increase National Research Ranking Success Through Strong Leadership and Faculty Efforts\*

Anticipate top 20 NIH ranking among public institutions in 2020



2018 Rank (Public)	Name	School of Medicine Award
20	UNIVERSITY OF VIRGINIA	\$120,948,657
21	MEDICAL UNIVERSITY OF SOUTH CAROLINA	\$112,862,548
22	UNIVERSITY OF FLORIDA	\$105,275,728
23	UNIVERSITY OF KENTUCKY	\$102,943,832
24	OHIO STATE UNIVERSITY	\$100,464,662
25	UNIVERSITY OF ARIZONA	\$93,056,073
26	UNIVERSITY OF ILLINOIS AT CHICAGO	\$84,105,260

2017 Rank (Public)	Name	School of Medicine Award
22	OHIO STATE UNIVERSITY	\$106,085,197
23	UNIVERSITY OF FLORIDA	\$101,680,933
24	UNIVERSITY OF SOUTH FLORIDA	\$95,505,019
25	UNIVERSITY OF ILLINOIS AT CHICAGO	\$82,084,578
26	UNIVERSITY OF KENTUCKY	\$80,935,149
27	MEDICAL COLLEGE OF WISCONSIN	\$76,309,568
28	UNIVERSITY OF TEXAS MED BR GALVESTON	\$75,253,072

2016 Rank (Public)	Name	School of Medicine Award
20	UNIVERSITY OF IOWA	\$103,884,797
25	UNIVERSITY OF ILLINOIS AT CHICAGO	\$72,741,816
26	UNIV OF ARKANSAS FOR MED SCIS	\$72,066,534
27	UNIVERSITY OF CALIFORNIA-IRVINE	\$65,237,884
28	UNIVERSITY OF KENTUCKY	\$62,941,884
29	UNIVERSITY OF TEXAS HLTH SCI CTR HOUSTON	\$62,738,872
30	UNIVERSITY OF NEBRASKA MEDICAL CENTER	\$59,655,274

\*Blue Ridge Ranking



# Healthy Kentucky Research Building

- 300,000 square feet of additional research space
- Recruitment highlight for new faculty



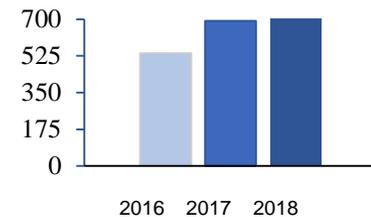
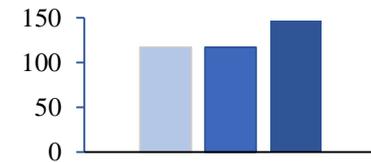
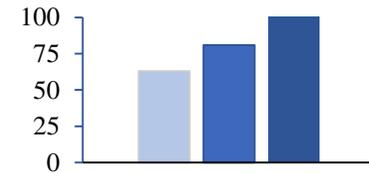
“I cannot overstate the long-lasting impact this new research facility will have on our state, from both a health care and an economic perspective.”

- Senate President Robert Stivers



# College of Medicine NIH Funding

Year	2016	2017	2018
School of Medicine Awards	\$62.9M	\$80.9M	\$102.9M
Number of PIs	117	117	147
Average \$/ PI	\$538.0K	\$691.8K	\$700.3K



Data source: Blue Ridge Institute for Medical Research



# College of Medicine Summary of Impact (2016-2019)

**Two New Four-Year Regional  
Campus Locations**



**Launched new strategic plan  
with clear priorities and goals  
in Education and Research:**

**COMMITTS 2018-2024**

**40% increase in  
Total Funding  
2017 to 2019**

**20% increase in M1  
students  
(47% increase of  
M1 when classes  
are fully enrolled)**

**42% of the full-  
time faculty across  
the College of  
Medicine are  
women**

**Successful  
LCME  
Accreditation  
3/2019**

**15% increase in  
number of  
residency and  
fellowship  
programs**

**29%**  
of the 2018  
Integrated  
Biomedical  
Sciences class is  
under-represented  
minority

**250 new  
alumni  
connections**



# **University Health Care Committee Retreat**

Mark F. Newman, MD



# University Health Care Committee Retreat

*Building the Academic  
Health System of the future  
for the Commonwealth*

**June 20, 2019**

8:00 AM-12:00 PM  
Lewis Honors College  
1120 University Drive

