



**University of Virginia  
School of Medicine  
David S. Wilkes, MD  
Dean**

presentation to  
**Senate Finance  
Committee**

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# Overview: UVA School of Medicine



**#28 Best Medical Schools: Research**

**#25 Tie Best Medical Schools: Primary Care**



A Cancer Center Designated by the  
National Cancer Institute

## UVA Academic Faculty:

21 Clinical Departments

8 Basic Science Departments

Total Faculty: 1,050

## Degree Programs:

MD

MD/JD

MD/PhD

MD/MBA

MD/MS (clinical research)

Master of Public Health

MD/MS (data sciences - 2017)

PhD (2017)



## Research Themes and Enabling Disciplines

	Imaging	Outcomes Population Sciences	Genomics/ Bioinformatic	Immunology	Infectious Diseases Microbiology
Cancer	Yellow	Yellow	Yellow	Yellow	Yellow
Cardiovascular	Yellow	Light Green	Yellow	Light Green	Yellow
Neurosciences	Yellow	Yellow	Yellow	Yellow	Yellow
<i>New - Organ Transplant</i>	Light Green	Light Green	Light Green	Light Green	Light Green
<i>New - Precision Medicine</i>	Light Green	Light Green	Light Green	Light Green	Light Green
<i>New - Metabolic Disorders</i>	Light Green	Light Green	Light Green	Light Green	Light Green
<i>New - Regenerative Medicine</i>	Light Green	Light Green	Light Green	Light Green	Light Green



## Strategic Hires

- 17 hires bringing 40 grants (since February 2016)
  - First-year grants - \$17.6 million
  - Total grants over five years - \$48.5 million
  - UVA investment of \$57 million
- 4 active recruitments with 12 grants
  - \$3.7 million first year; \$11.9 million five years
- Economic impact: 190 jobs



## Strategic Hires

- **Jayakrishna Ambati, MD – Ophthalmology**
  - Dry age-related macular degeneration
  - Regenerative and precision medicine
- **José Oberholzer, MD – Transplant**
  - High-risk patients, robotic transplantation
  - Patients stay in Virginia for their transplants
- **Philip Bourne, PhD**
  - Director, Data Science Institute
  - Former NIH Associate Director for Data Science
  - Use of “big data” in large-scale research
- **Robert Klesges, PhD**
  - Center for Addiction and Prevention Research
  - Student programs in alcohol, tobacco, opiate addiction and prevention



# UVA's Strategic Investment Fund

- Center for Diabetes Technology
  - Artificial Pancreas project: revolutionary improvement in managing Type 1 Diabetes
  - UVA is leading 14 sites worldwide
- BRAIN@UVA
  - Aligns with Commonwealth's "Brain State"
  - Treatments, cures, preventions: Alzheimer's disease; neuroimmunology; traumatic brain injury; autism; epilepsy; Parkinson's



# UVA's Strategic Investment Fund

- Engineering in Medicine (with Engineering)
  - Improve patient care and health outcomes through prevention, monitoring, diagnosis, and treatment
- Center for Advanced Biomanufacturing (with Engineering)
  - Public/private partnership for tissue engineering and regenerative medicine
  - Limb and organ replacement
  - Treatment of birth defects and nerve damage



## Dean's Priorities

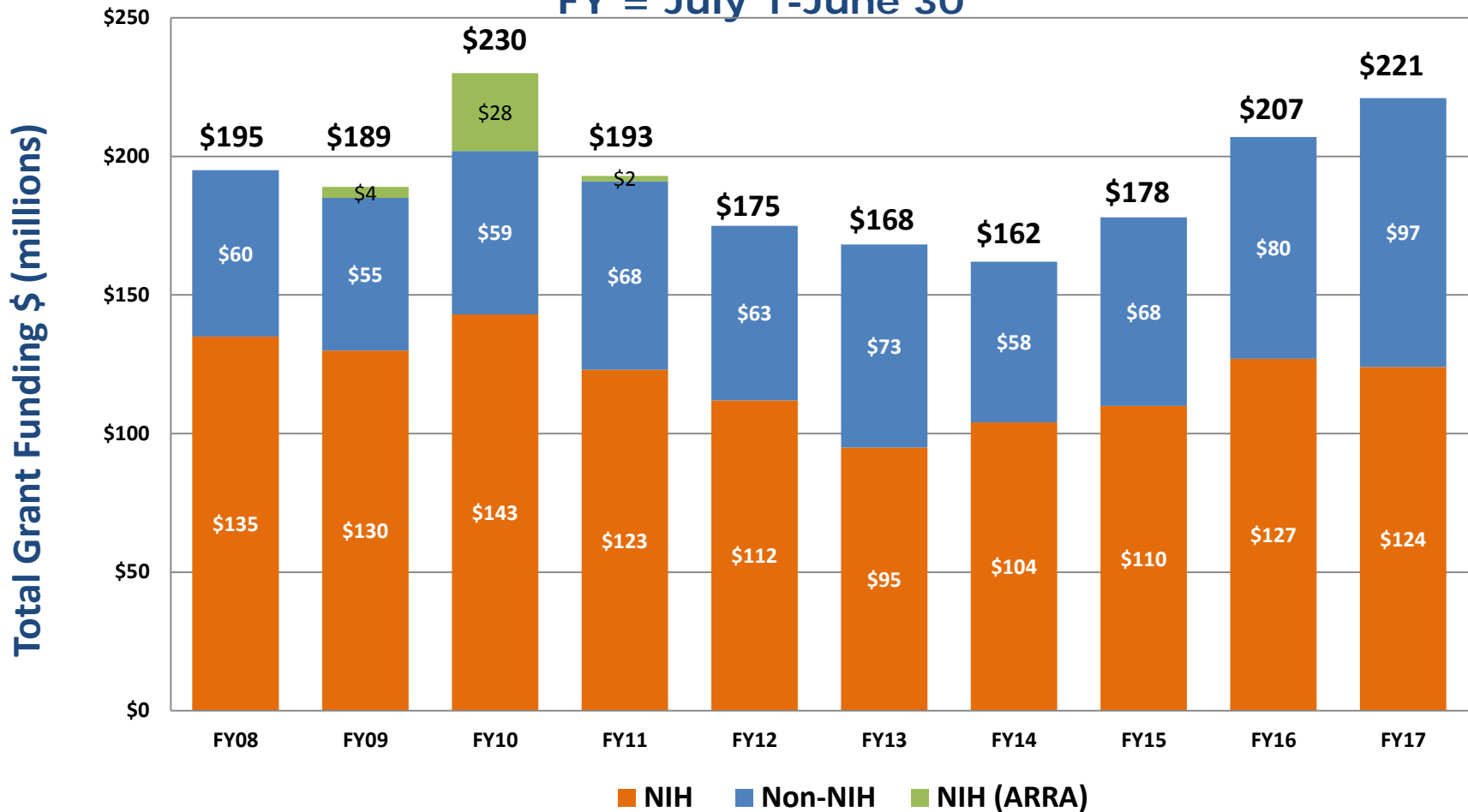
- Aggressive investment in research and faculty recruitment
- Increase NIH portfolio to \$150M by 2020 and diversify portfolio
- Execute development of UVA-Inova research institute (GGBRI)
- Comprehensive Cancer Center status
- Clinical and Translational Science Award





# SOM Extramural Funding

FY = July 1-June 30





# Investment in Research

- \$1 of research funding requires 50¢ institutional support

## **June 1, 2013 – June 30, 2017:**

- Increase in total funding of \$59 million
- UVA's investment: \$29.5 million



# Result of UVA Investment: NIH Rankings of Medical Schools

(Total NIH grant awards – Federal FY16 Oct 1-Sept 30)

**Moved from 40<sup>th</sup> to 36<sup>th</sup>**

Total Awarded:

Federal FY15: \$101.2M

Federal FY16: \$126.0M

**\$24.8M or 24.5% increase**

Source: Blue Ridge Institute for Medical Research, from NIH data



# Take-Home Points

TALENT is the key to successful research

TALENT requires investment