

University of Illinois at Urbana-Champaign

Dashboard Indicators

RESEARCH PERFORMANCE UPDATES BY:
UNIVERSITY OFFICE FOR PLANNING AND BUDGETING
JULY 9, 2013

PRESENTED BY:
CHANCELLOR PHYLLIS WISE
JULY 25, 2013

Peer Groups



University of Illinois at Urbana-Champaign*

University of California - Berkeley*

University of California - Los Angeles

University of California - San Diego

University of Michigan - Ann Arbor

University of North Carolina - Chapel Hill

University of Texas - Austin*

University of Washington

University of Wisconsin - Madison

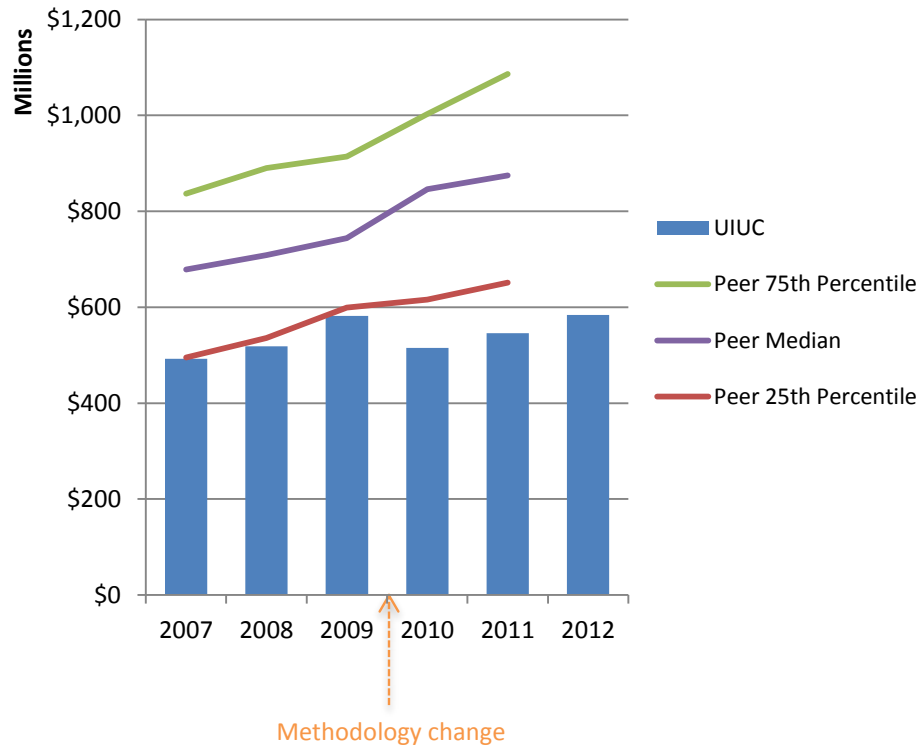
University of Virginia

* No medical center or College of Medicine.

Research Performance



Total Research and Development Expenditures* FY 2007 – FY 2012

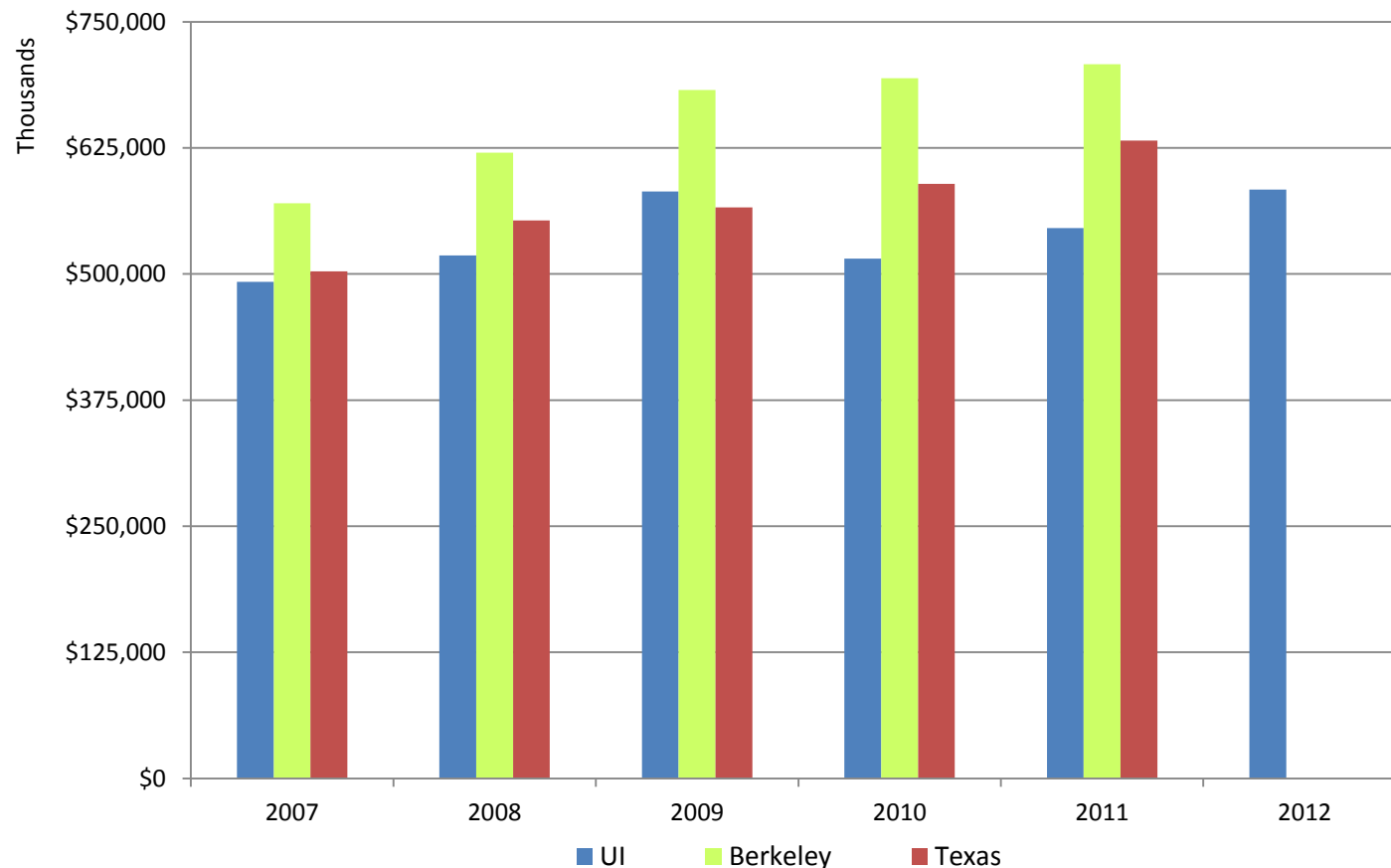


Though increasing in FY 2011 and FY 2012, research and development expenditures at the University of Illinois at Urbana-Champaign are less than the peer median.

Urbana-Champaign does not have a medical center nor a college of medicine, but seven of its nine peers have one or both.

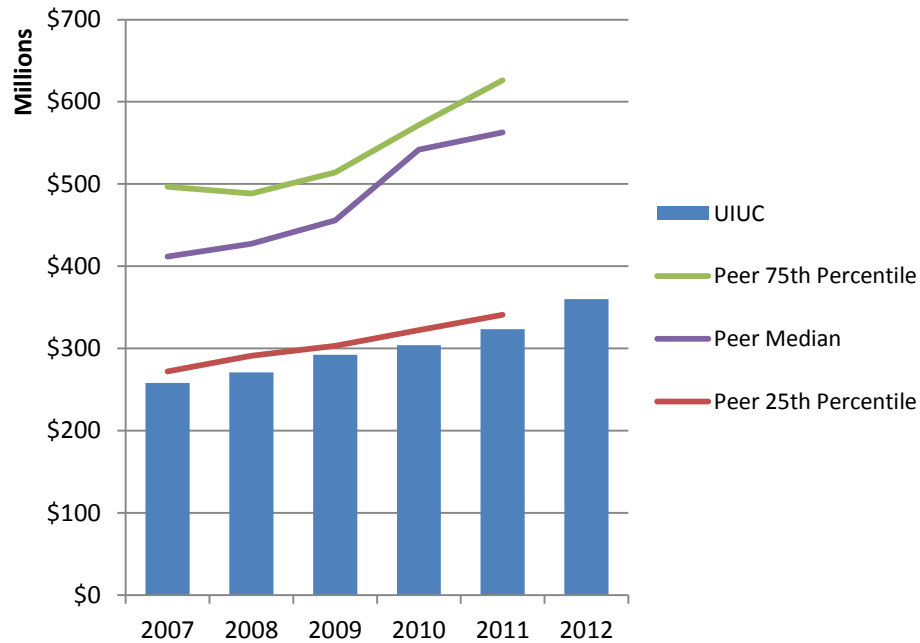
* As reported to the NSF Survey of Research and Development Expenditures. Fiscal Year 2012 peer data not available.

Total Research and Development Expenditures* Among Peers Without Medical Schools FY 2007 – FY 2012



* As reported to the NSF Survey of Research and Development Expenditures.

Total Federal Research and Development Funding* FY 2007 – FY 2012

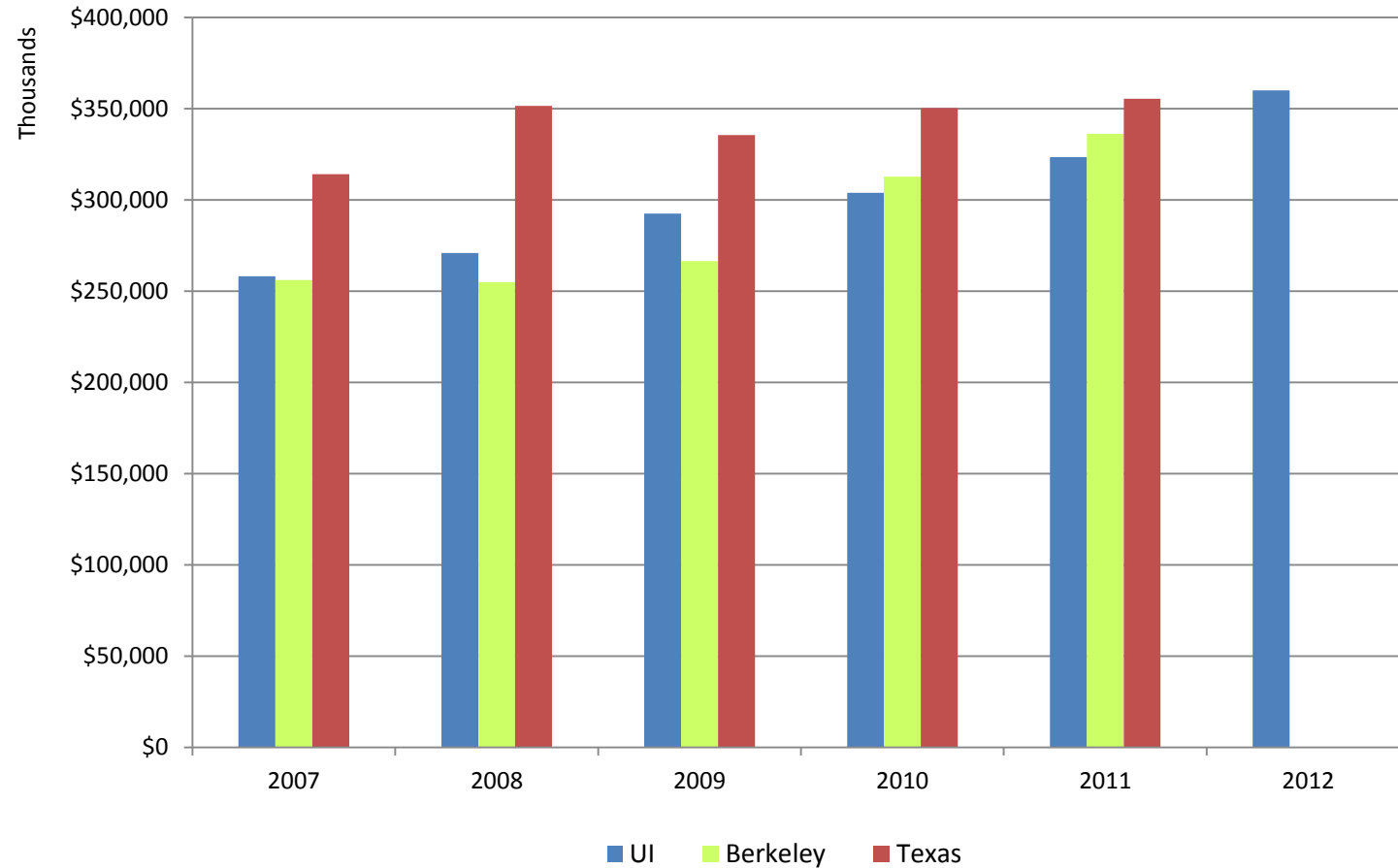


University of Illinois at Urbana-Champaign receives less total federal research funding than its peer median.

Urbana-Champaign does not have a medical center nor a college of medicine, but seven of its nine peers have one or both.

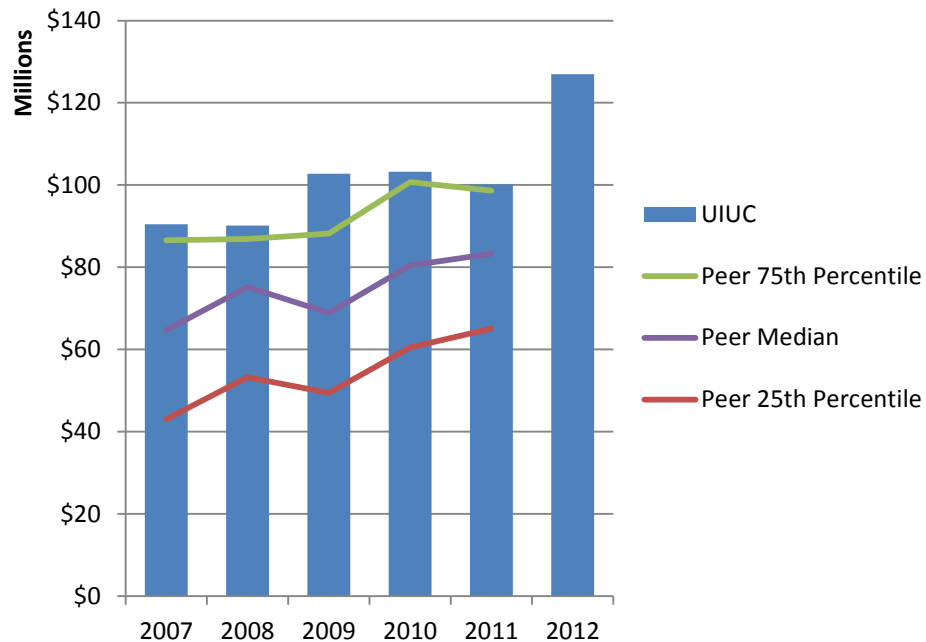
* As reported to the NSF Survey of Research and Development Expenditures. Fiscal Year 2012 peer data not available.

Total Federal Research and Development Funding* Among Peers Without Medical Schools FY 2007 – FY 2012



* As reported to the NSF Survey of Research and Development Expenditures.

National Science Foundation Funded Research and Development FY 2007 – FY 2012



University of Illinois at Urbana-Champaign receives more NSF funding than its peer median and is consistently ranked in the top three among its peers.

NSF is the largest source of Federal R&D funding for the University of Illinois at Urbana-Champaign.

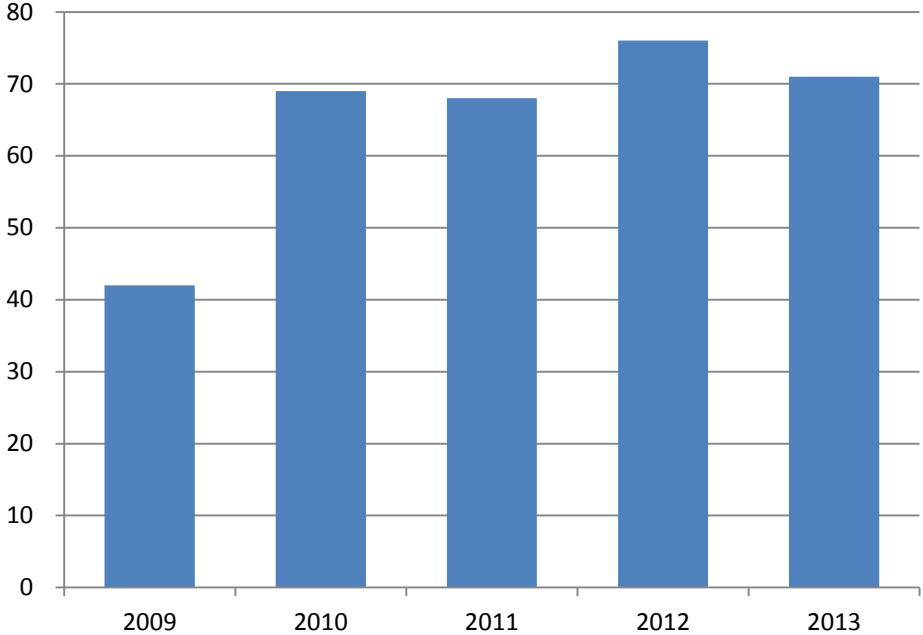
* Some institutions reported combined campus data. Fiscal Year 2012 peer data not available.

National Science Foundation Funded Awards Top 15 Institutions FY 2012

Institution	Total	Research Support	Education & Human Resources	Major Research Equipment
University of Illinois at Urbana-Champaign	\$218,699	\$214,543	\$4,156	\$0
Consortium for Ocean Leadership, Inc	\$188,460	\$85,660	\$0	\$102,800
University Corporation For Atmospheric Res	\$125,749	\$125,171	\$578	\$0
University of Washington	\$114,784	\$102,369	\$12,415	\$0
Cornell University	\$113,422	\$107,260	\$6,163	\$0
University of Wisconsin-Madison	\$105,998	\$95,297	\$9,641	\$1,059
University of California-Berkeley	\$105,171	\$98,476	\$6,695	\$0
Lockheed Martin Corporation	\$96,964	\$96,500	\$0	\$464
Columbia University	\$94,996	\$86,909	\$8,087	\$0
California Institute of Technology	\$93,968	\$73,008	\$0	\$20,960
University of Texas at Austin	\$91,545	\$86,021	\$5,524	\$0
University of Colorado at Boulder	\$86,965	\$77,394	\$9,571	\$0
Massachusetts Institute of Technology	\$83,086	\$79,266	\$3,820	\$0
University of Minnesota-Twin Cities	\$82,803	\$75,142	\$7,661	\$0
University of Michigan Ann Arbor	\$80,255	\$67,438	\$12,817	\$0

Source: <http://dellweb.bfa.nsf.gov/Top50Inst2/default.asp>

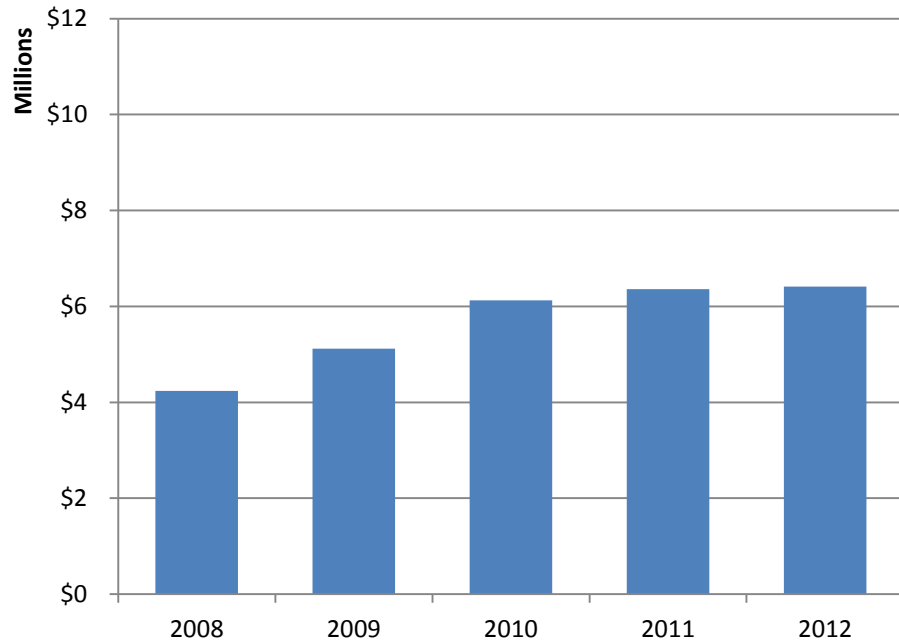
Number of U.S. Patents Issued FY 2009 – FY 2013



The number of U.S. patents issued to the University of Illinois at Urbana-Champaign increased significantly since FY 2009.

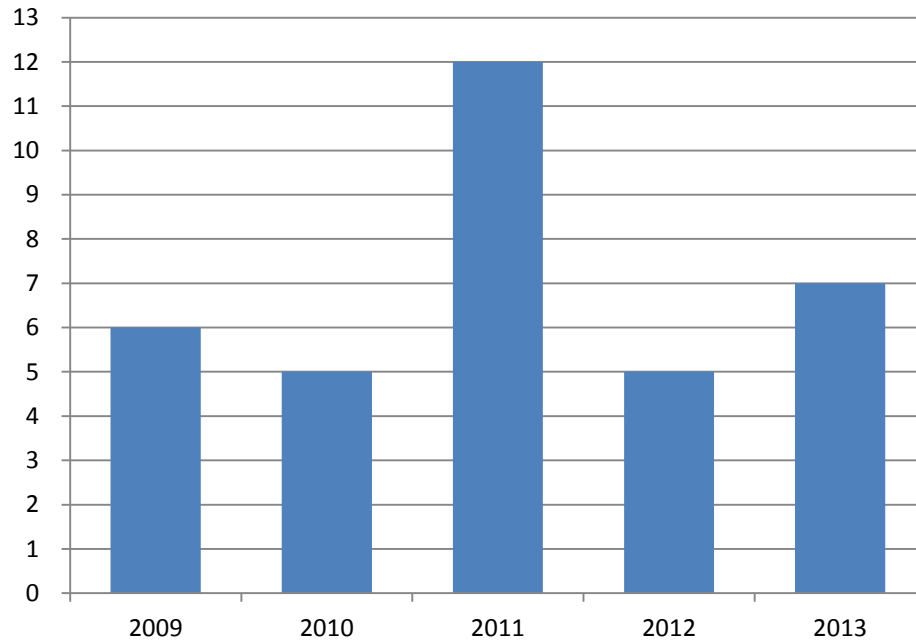
Royalties

FY 2008 – FY 2012



Royalties earned at the University of Illinois at Urbana-Champaign have been growing since FY 2008.

Number of New Start-Up Companies Formed FY 2009 – FY 2013



In 2013 the number of new companies started based on technology developed at the University of Illinois at Urbana-Champaign is consistent with previous years.

Research Performance: Goals



Expand the research enterprise in quality, impact, and visibility:

- Support, encourage and promote internal connections among researchers and external communications about our accomplishments
- Support and streamline administrative processes that support our research enterprise
- Create opportunities for diverse populations and perspectives in the research enterprise
- Improve customer service for our faculty researchers

Action Items (All In Progress)



Campus-wide Research Initiatives

- Develop a leadership structure for campus initiatives
 - Formation of new virtual institutes
 - Formation of new interdisciplinary working groups and reconfiguration of existing campus-wide research committees
- Create a formal network of research deans
 - Regular meetings to improve coordination and communication
- Implement Researcher Profiles Software
 - Evaluation committee formed; implementing in Fall Semester
- Create a proposal development office
 - Planning underway, director search to start this summer

Biomedical Research



Notable Projects Include:

- Center for Nutrition, Learning, and Memory (multi-million center funded by Abbott)
- Center for Macromolecular Modeling and Bioinformatics (\$10 million for 5 years)
- Children's Environmental Health and Disease Prevention Research Center (\$8 million for 5 years)
- Strategic Healthcare IT Advanced Research Projects on Security (\$15 million for 4 years)
- Enzyme Function Initiative (\$26 million for 5 years)

Recent Research Highlights



LAUNCH of the \$208 million, NSF-funded Blue Waters petascale super computer and the early science results from the system.

THE SECOND ROUND of funding in the multi-year, multi-million dollar Abbott Center for Nutrition, Learning, and Memory, the first interdisciplinary cognition and nutrition research center in the country.

A GRANT of \$25 million for RIPE: Realizing Increased Photosynthetic Efficiency (from the Bill and Melinda Gates Foundation) to benefit farmers around the world by increasing productivity of staple food crops.

A GIFT of \$100 million (from the Grainger Foundation) to build the Grainger Engineering Breakthroughs Initiative.

DISCOVERIES in the structure of the HIV capsid, “flexible” electronics, self-powered “bio-bots,” and a tool to improve the outcome of breast cancer surgery, among many other innovations.

Questions?

