

Reported to the Board of Trustees

July 23, 2015

University of Illinois at Chicago

Analysis of Dashboard Indicators

RESEARCH PERFORMANCE UPDATES BY:
UNIVERSITY OFFICE FOR PLANNING AND BUDGETING
JUNE 12, 2015

REPORTED BY:
CHANCELLOR MICHAEL AMIRIDIS
JULY 23, 2015

Areas Exceeding Expectations: Large Awards FY15

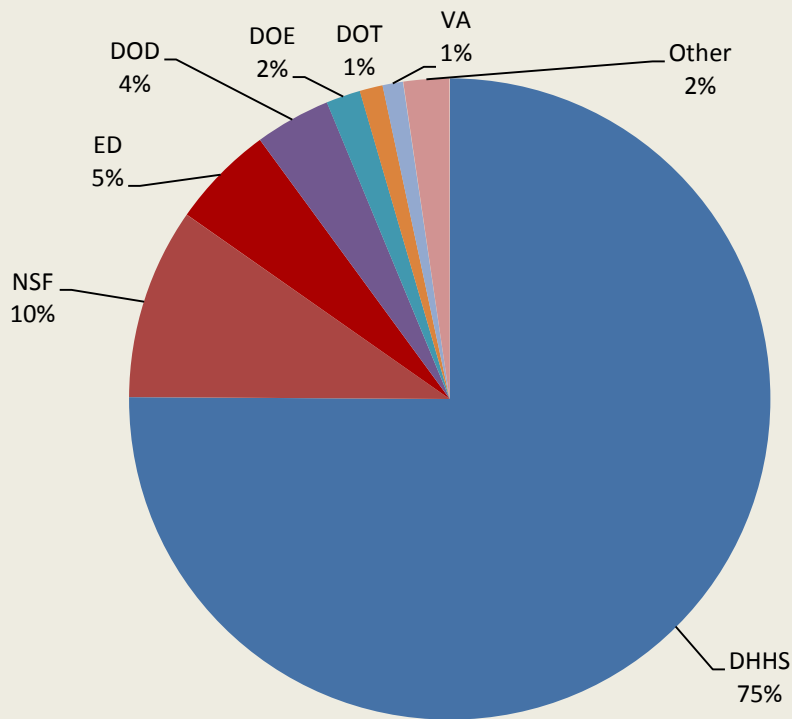


- \$71,848,739 in awards from 17 large grants ranging from \$2M to \$8.2M each with an average award of \$4.2M
- Federal funding from:
 - National Science Foundation (NSF)
 - National Institute for Occupational Safety and Health (NIOSH)
 - Dept. of Health and Human Services
 - Dept. of Education
 - National Institute of Allergy and Infectious Diseases
 - National Heart Lung and Blood Institute
 - National Institute of Diabetes, Digestive & Kidney Diseases
 - Centers for Medicare and Medicaid Services
- State awards from Departments of Transportation and Public Health (federal Title V block grant)

Research Expenditures and Awards

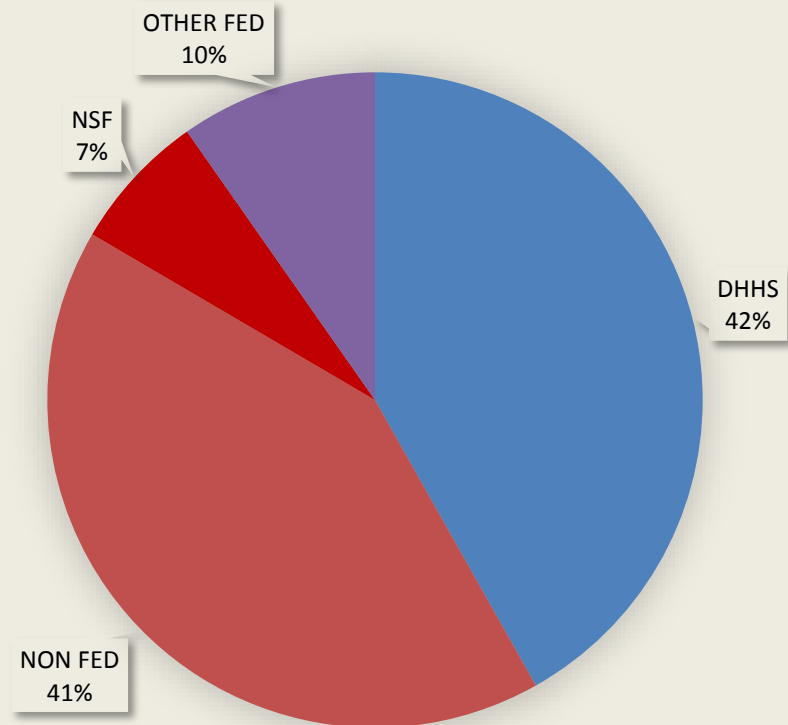


FY 14 Federal Expenditures by Agency



- Total FY14 Federal Research Expenditures = \$204M
- FY14 Federal Research Expenditures represent 58% of UIC's Total Sponsored Research Expenditures

All FY 15 Awards Received to Date



- Total for all FY15 awards received to date = \$278M

Areas Exceeding Expectations: Our Investment in Research



Faculty utilize two centralized core research facilities to leverage \$500M in current grant awards:

1) Biological Resources Center

2) Research Resources Center (24 separate cores) including:

- DNA Services, Genomics and Proteomics
- Flow Cytometry, Single Cell Imaging, MRI, NMR
- Electron and Optical Microscopy Services and Fabrication Facilities
- Tissue Bank
- Informatics and Scientific Computing Support

Areas Exceeding Expectations: Our Investment in Research



Internal Seed Funding Programs

- 129 awards between 2009 and 2015 in different categories totaling \$5,240,574
 - 72% (93) of all projects included some type of student support/research experience
 - 40% of all funds were invested into student support/research experience, \$2.1M
- As of March 2015, UIC received \$12.64 in new extramural funding for each \$1 invested in OVCR managed intramural funding programs

Areas Exceeding Expectations: Our Investment in Research



Faculty Start-up investments

- \$70 million over the past five years, not including all facility improvements
- FY07 through FY16, \$189,816,190 in repair and renovation expenditures on research facilities

High Performance Computing Cluster

- 200+ users from 26 research groups, 15 “investing” departments and colleges
- 200 nodes, 28 TB of memory and 3,552 cores
- Allows engagement with Blue Waters in a meaningful way

Areas Exceeding Expectations: Student Engagement



- Research related courses
 - GC 470 - Essentials for Animal Research*
 - GC 471 - Experimental Animal Techniques*
 - GC 473 - Seminar in Comparative Medicine*
- Collaborative agreements for joint use of facilities with Northwestern, University of Chicago, Argonne and Fermi National Laboratories
- Student Research Forum has participation of over 250 students (mostly undergraduate) from all colleges each year
- Clinical Research Boot Camp, through Office for the Protection of Research Subjects, trains graduate students and postdoctoral fellows
- Internships/graduate assistantships in the user cores supports student experience preferred by hiring firms
- \$117M in active training and related grants (2009-2015)

Areas Exceeding Expectations: Leadership in Chicago



Association for the Accreditation of Human Research Protection Programs (AAHRPP) and Association for Assessment and Accreditation of Laboratory Animal Care (AAALAC)

- Only academic institution in the Chicago area to achieve **AAHRPP** accreditation
- Continuously accredited by AAALAC since 1970

Patient Centered Outcome Research Institute (PCORI)

- Chicago Area Patient Centered Outcomes Research Network (CAPriCORN) was established with infrastructure funding from the Patient Centered Outcome Research Institute (PCORI) as one of 11 Clinical Data Research Networks
- PCORI generated \$11.9M in funding for researchers

IRB of record for the Chicago Area Institutional Review Board

- CHAIRb is listed on the UIC Federal Wide Assurance (FWA 00000083)
- Registered with the OHRP, DHHS as University of Illinois at Chicago IRB #7
- Registered with the FDA for review of FDA research (IORG 0000080)

Areas Needing Improvement / Strategies for Improvement



Strategic Focus of Research Emphasis

Developed 6 thematic areas on which to build research agenda:

1. BRAIN (Brain Research through Advancing Innovative Neurotechnologies)
2. Personalized Medicine/Genomics
3. Big Data
4. Community Disparities (health, education, violence, workforce development)
5. Environment and Urban Infrastructure
6. Functional and Regenerative Materials

Clinical Trials

- Goal to increase the number of clinical trials and enhance compliance structure and consistent practices at the hospital and college departments
- Efforts have resulted in a three-fold increase in number of clinical trials in the past two years

Corporate and Foundation Relations

- Develop key and strategic partnerships with relevant corporate and foundation entities
- Work closely with UIC Advancement

Areas We Are Watching



- Eight State grants have been suspended due to budget cuts:
 - Suspensions have impacted programs with multi-million dollar budgets such as CeaseFire
 - Suspensions affect UIC programs (including soft-funded employees) and sub-awardees
 - There is no word yet on how these and other state funded projects will be affected by the FY16 budget
- Budget cuts may also impact core facilities, internal seed funding and faculty start up cost/recruitments of star faculty

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Standard Peer Group



University of Illinois at Chicago

Florida State University

Temple University*

University of Alabama at Birmingham

University of Arizona - Tucson

University of California - Irvine

University of Cincinnati

University of Colorado Denver*

University of New Mexico - Albuquerque

University of South Florida - Tampa

Virginia Commonwealth University

Wayne State University

* State-related research institution

Aspirational Comparison Group



University of Illinois at Chicago

Boston University*

New York University*

Ohio State University

University of California, Los Angeles

University of Southern California*

University of Texas at Austin

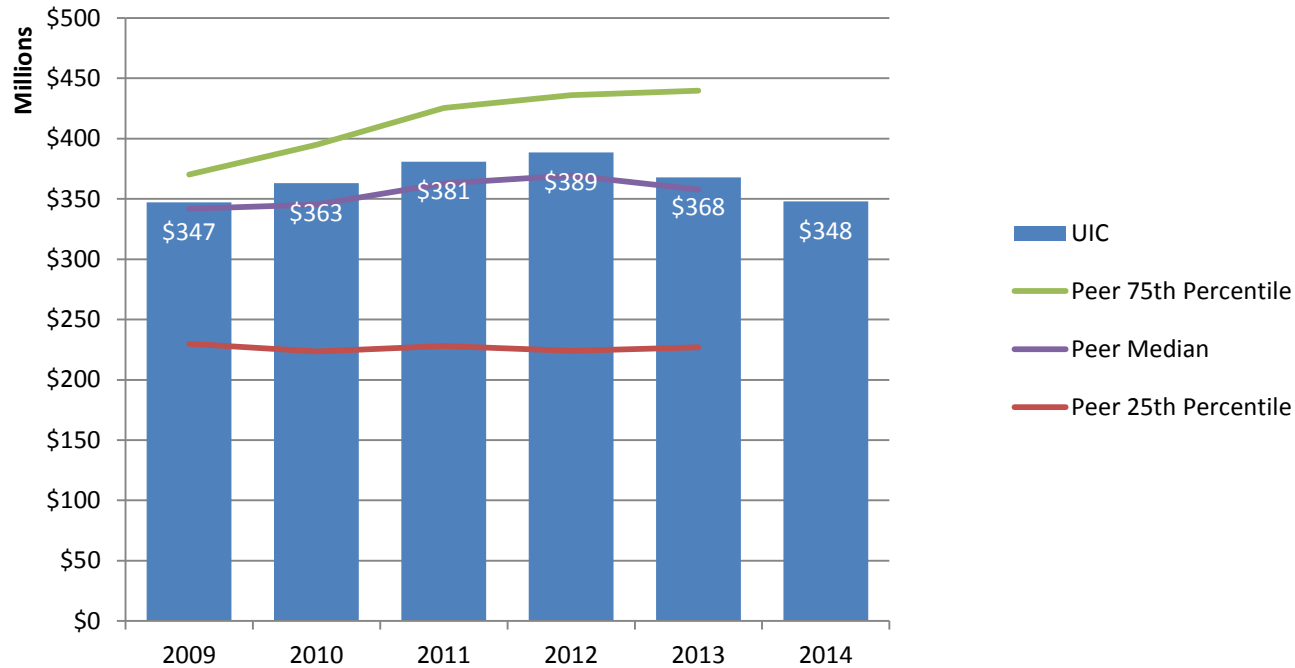
* Private institution

Research Performance



UIC and Standard Peer Group

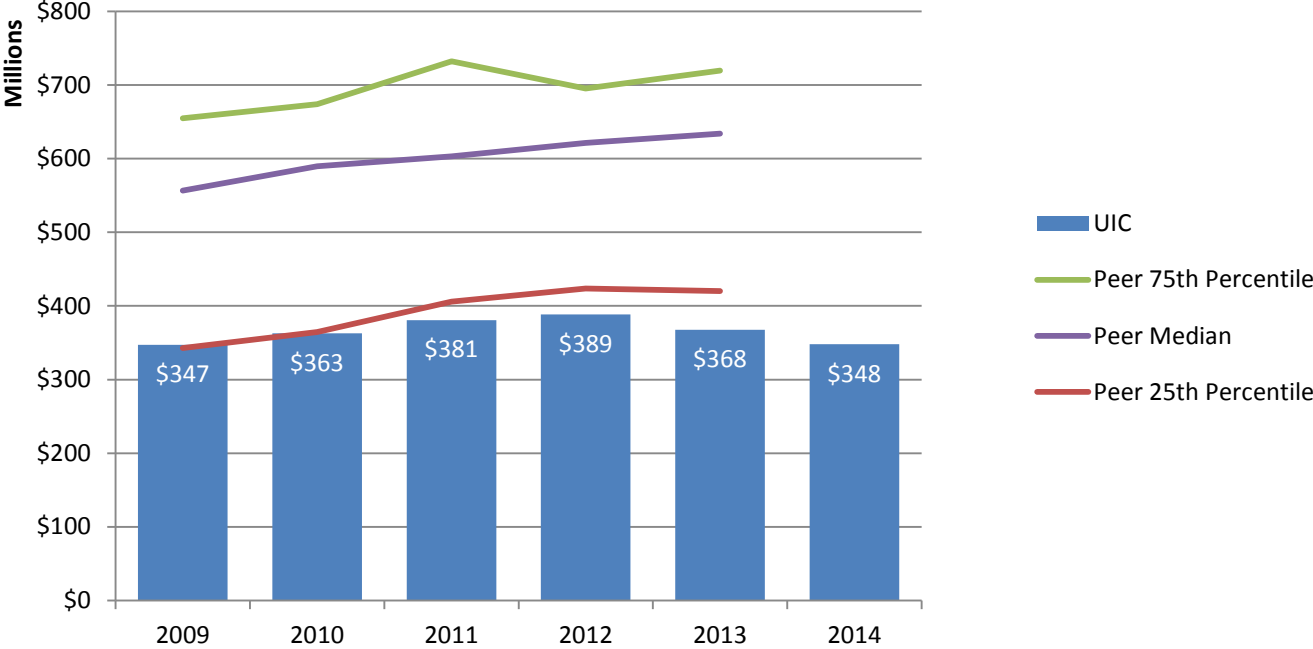
Total Research and Development Expenditures*: FY 2009 – FY 2014



* As reported to the NSF Survey of Research and Development Expenditures. FY 2014 peer data not available.

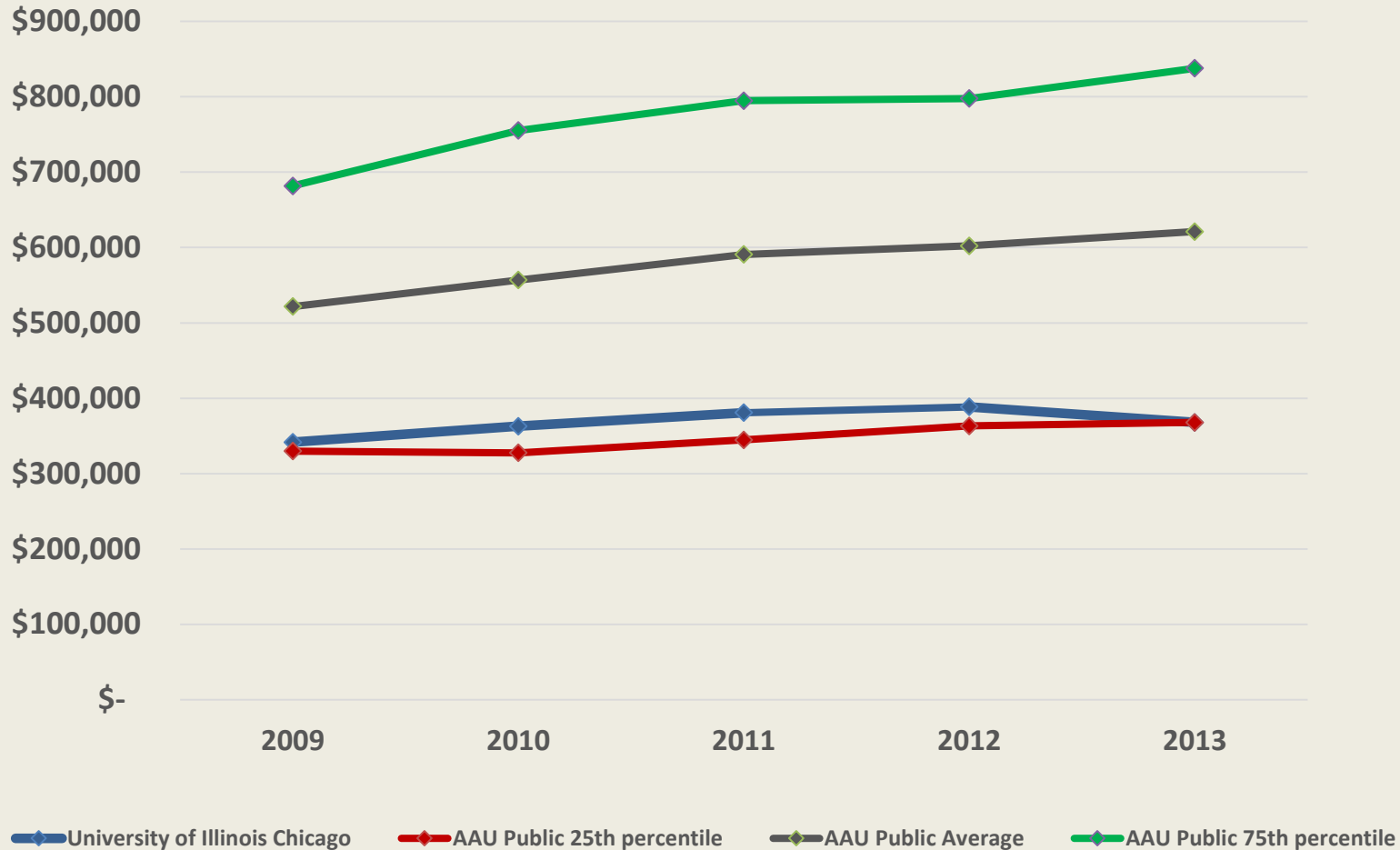
UIC and Aspirational Comparison Group

Total Research and Development Expenditures*: FY 2009 – FY 2014



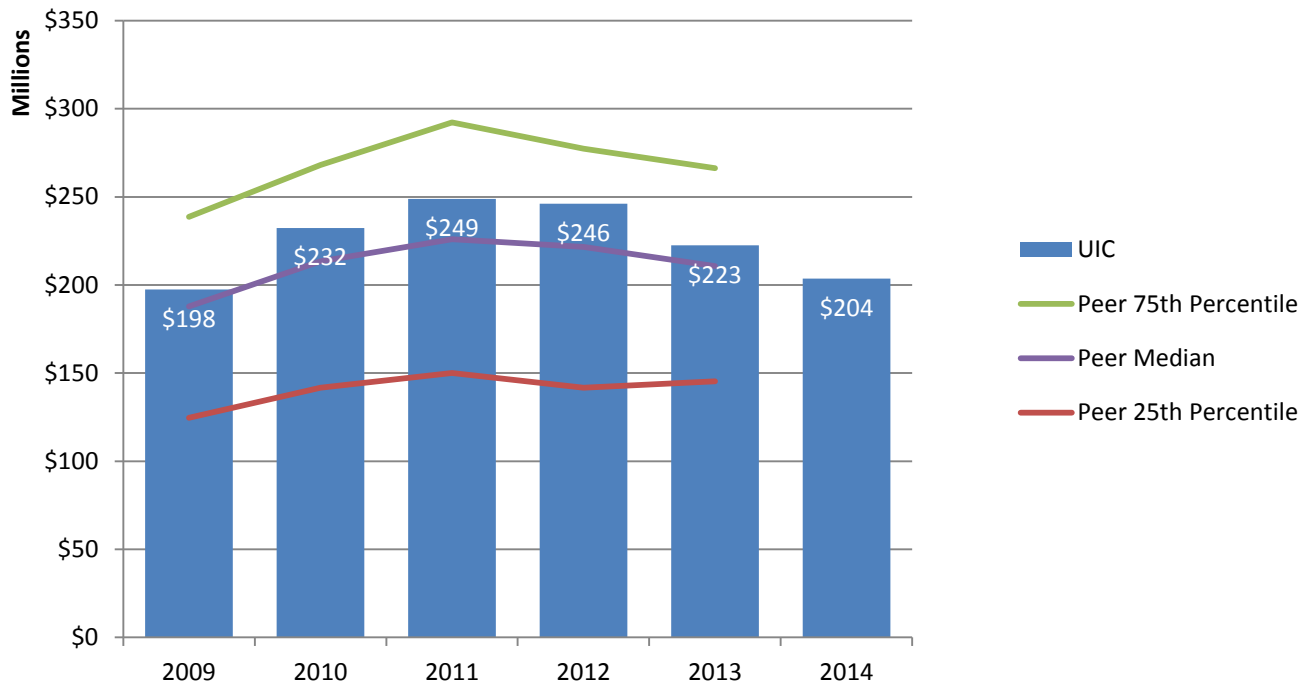
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UIC Total Research and Development Expenditures Compared with all AAU Public Institutions (FY 2009-2013)



UIC and Standard Peer Group

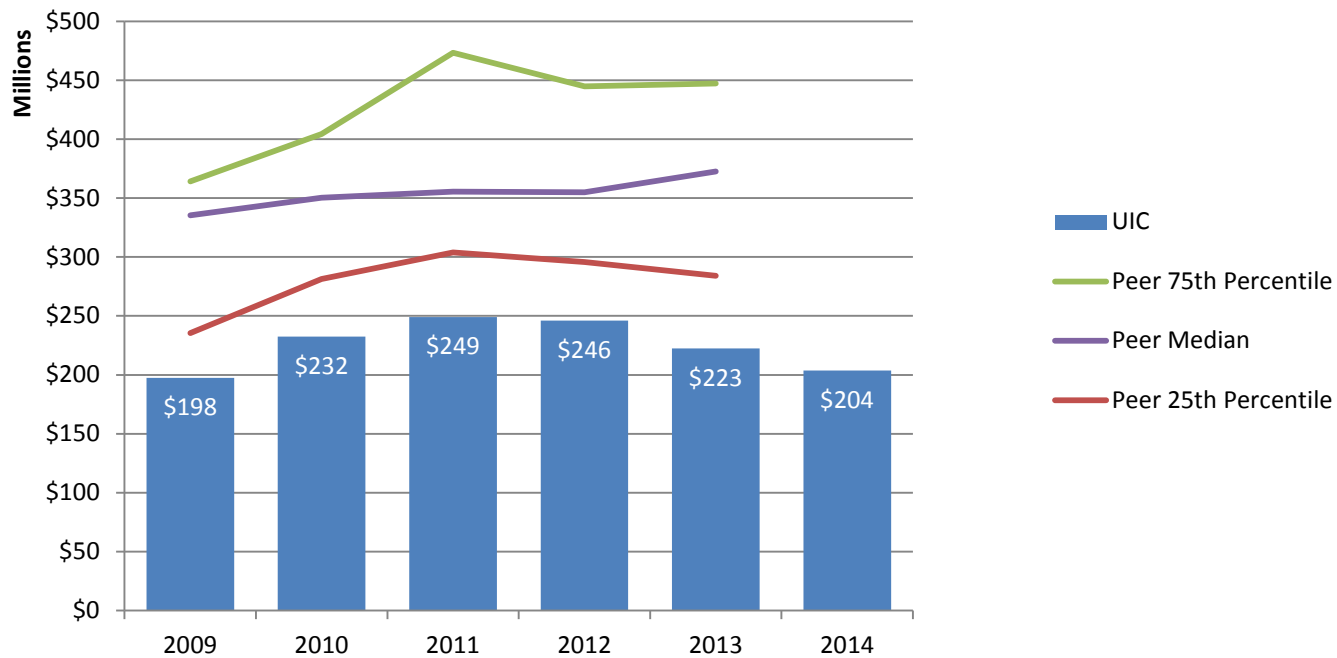
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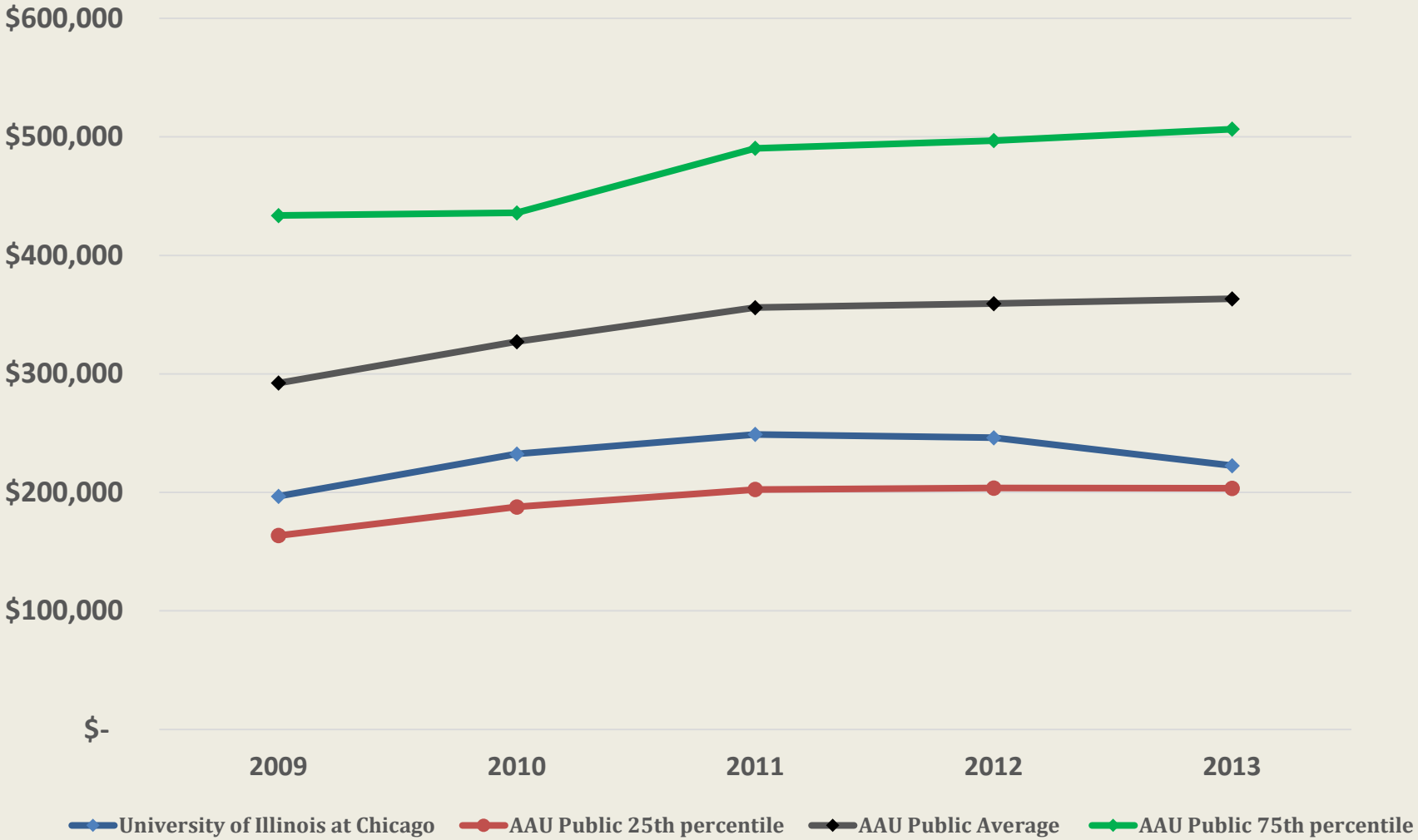
UIC and Aspirational Comparison Group

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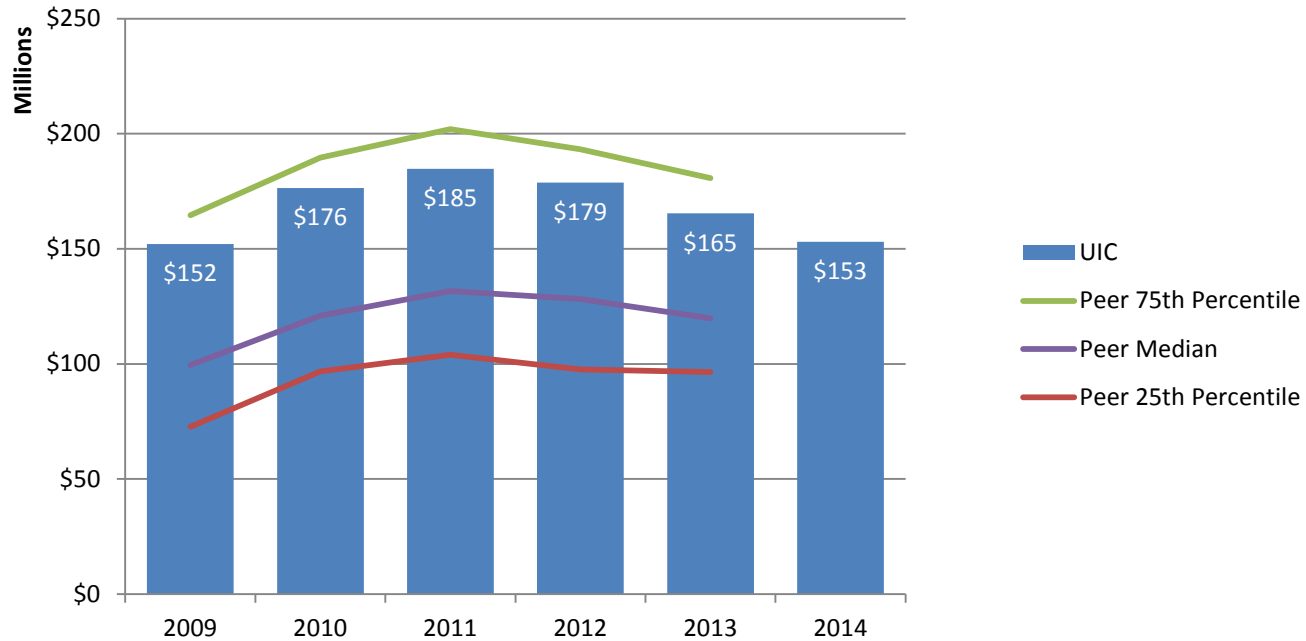


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UIC Federal Research and Development Expenditures Compared with AAU Public Institutions (FY 2009-2013)

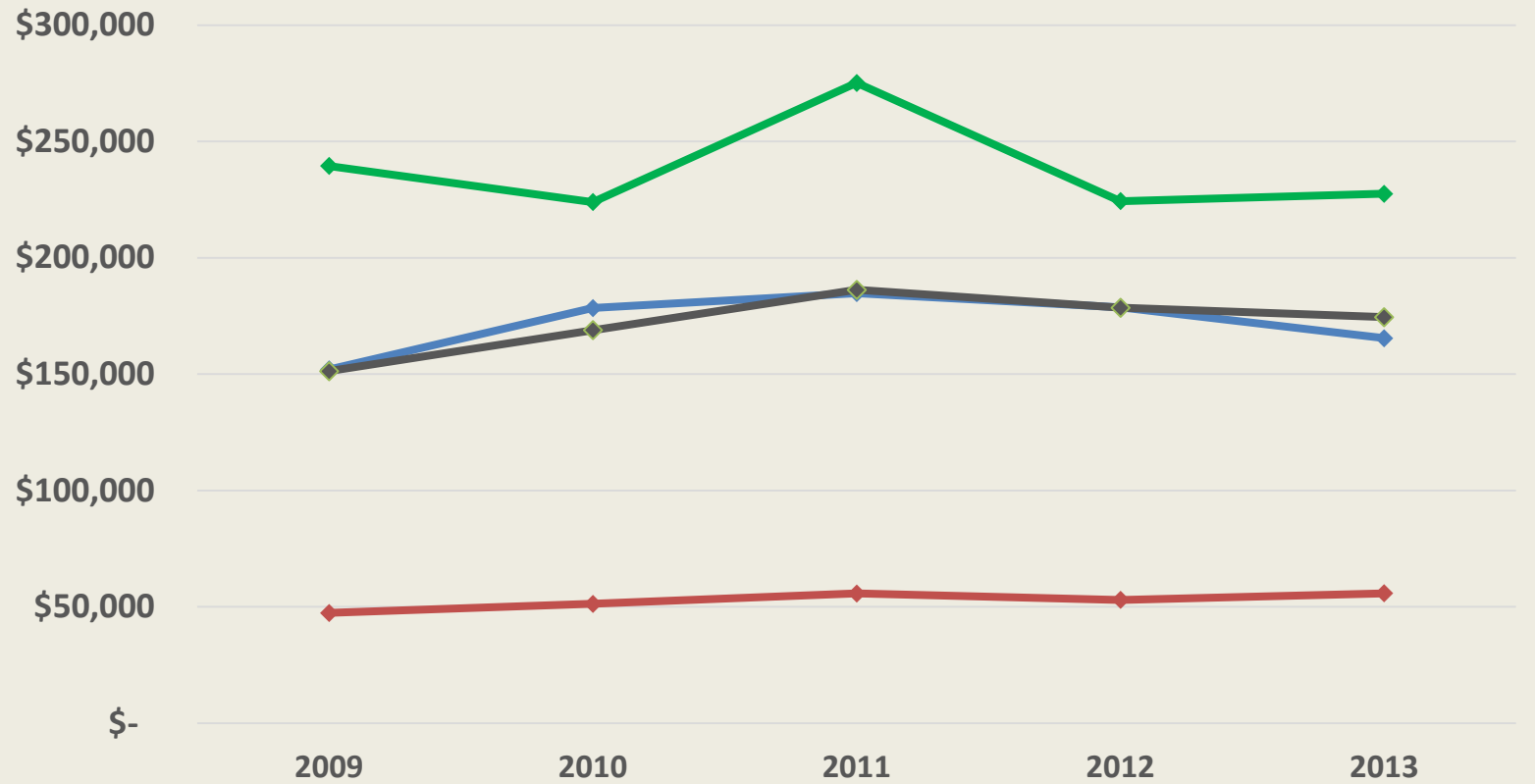


UIC and Standard Peer Group Department of Health and Human Services (including NIH) Research and Development Expenditures* FY 2009 – FY 2014



* Some institutions reported combined campus data. FY 2014 peer data not available.

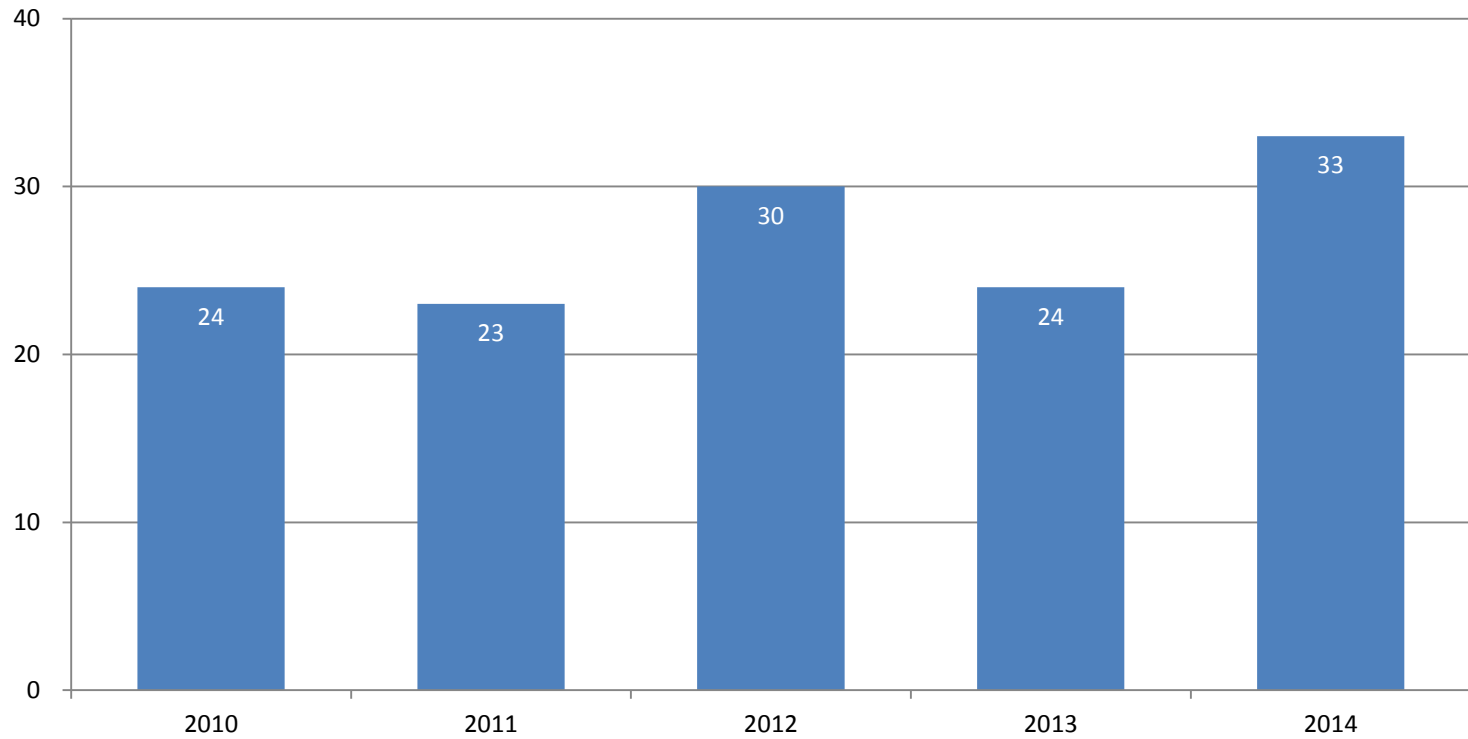
UIC Department of Health and Human Services Research and Development Expenditures Compared with all AAU Institutions (FY 2009 – 2013)



—◆— University of Illinois at Chicago —◆— AAU Public 25th percentile —◆— AAU Public Average —◆— AAU Public 75th percentile

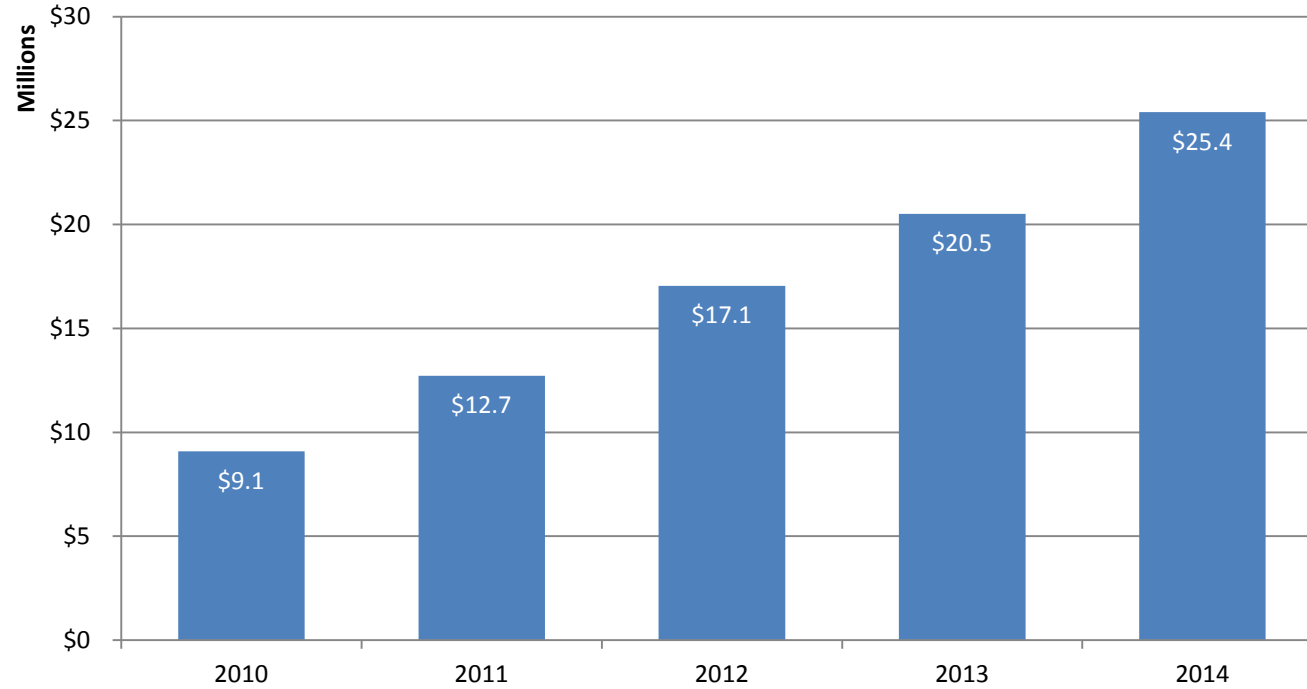
UIC

Number of U.S. Patents Issued: FY 2010 – FY 2014



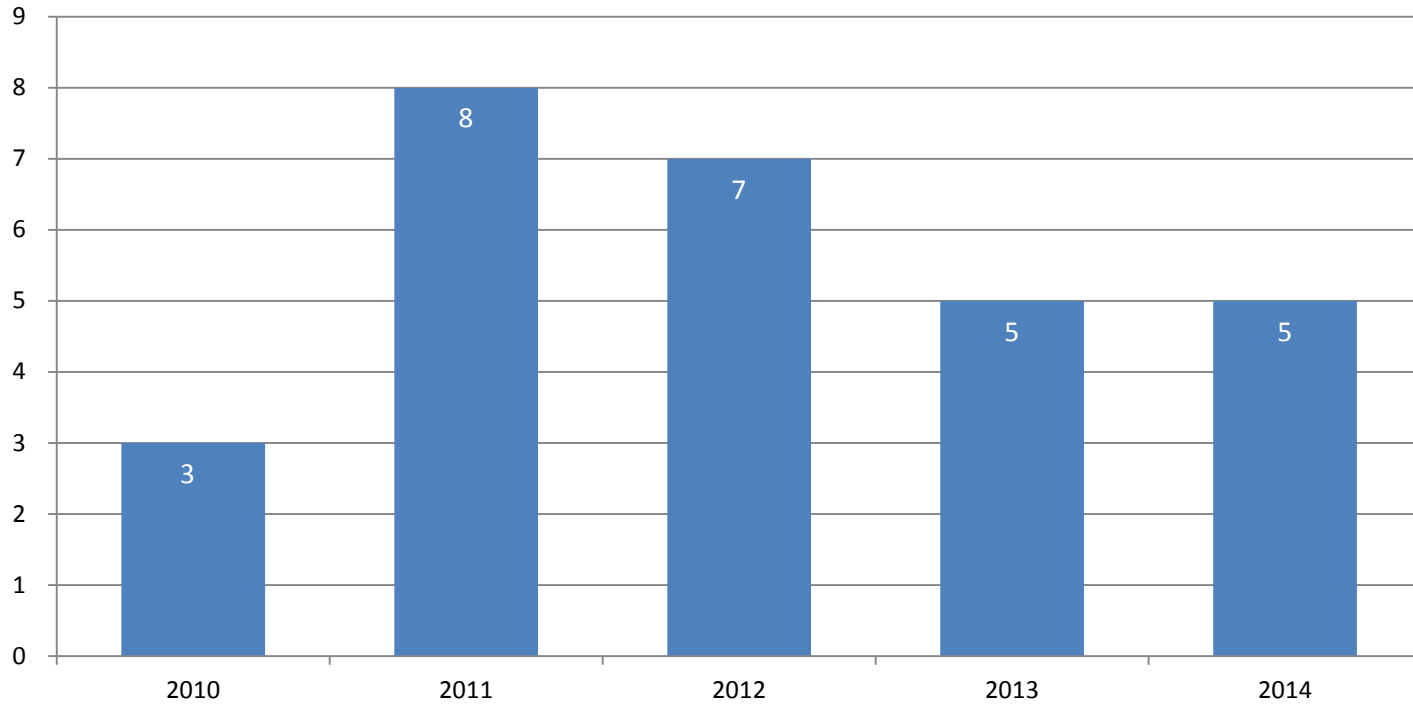
UIC

Royalties: FY 2010 – FY 2014

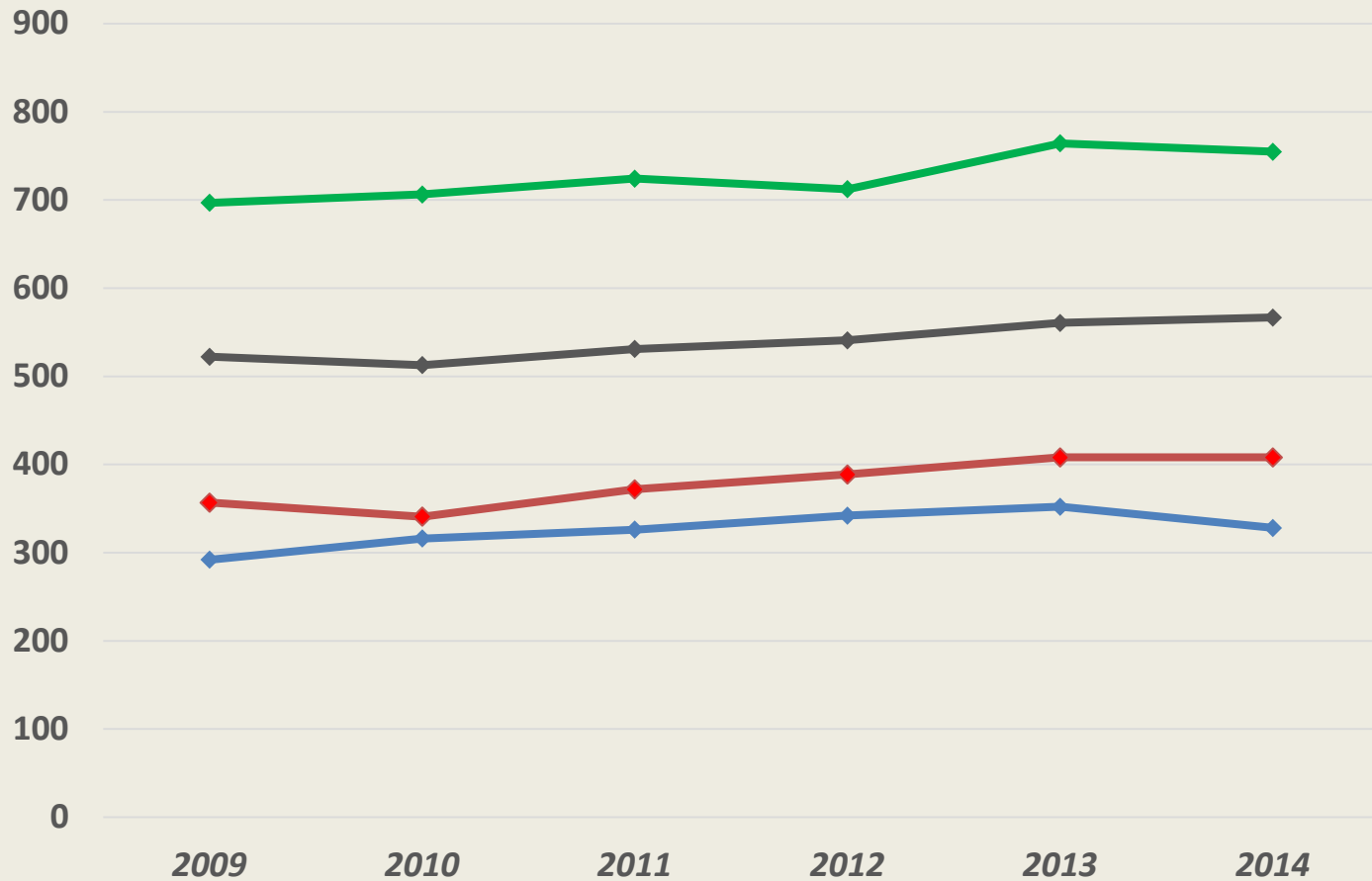


UIC

Number of New Start-Up Companies Formed: FY 2010 – FY 2014



UIC Total Research Doctoral Degrees Awarded Compared with AAU Public Institutions



◆ University of Illinois at Chicago ◆ AAU Public 25th percentile ◆ AAU Public Average ◆ AAU Public 75th percentile