University of Illinois at Chicago

Analysis of Dashboard Indicators
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)
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
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)
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
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

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


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

* As reported to the NSF Survey of Research and Development Expenditures. FY 2014 peer data not available.
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)
UIC
Number of U.S. Patents Issued: FY 2010 – FY 2014

<table>
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<th>Year</th>
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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