

Research Program Update



Photo by Sam Kittner

Barbara Entwisle, PhD
Vice Chancellor for Research
Innovation and Impact Committee
May 21, 2014



UNC
RESEARCH

Two Sources of Information about Research Funding

Research Expenditure Data

Assembled by NSF

Data collected comparably

Provide rankings

Lag two years

Research Award Data

Collected by UNC-Chapel Hill

Current and up-to-date



Research Expenditure Data Assembled by NSF

Rankings of Universities, FY12

	All Sources	Federal Sources
UNC	#11	#9
Duke	#7	#11
NC State	#52	#70



Research Expenditure Data Assembled by NSF

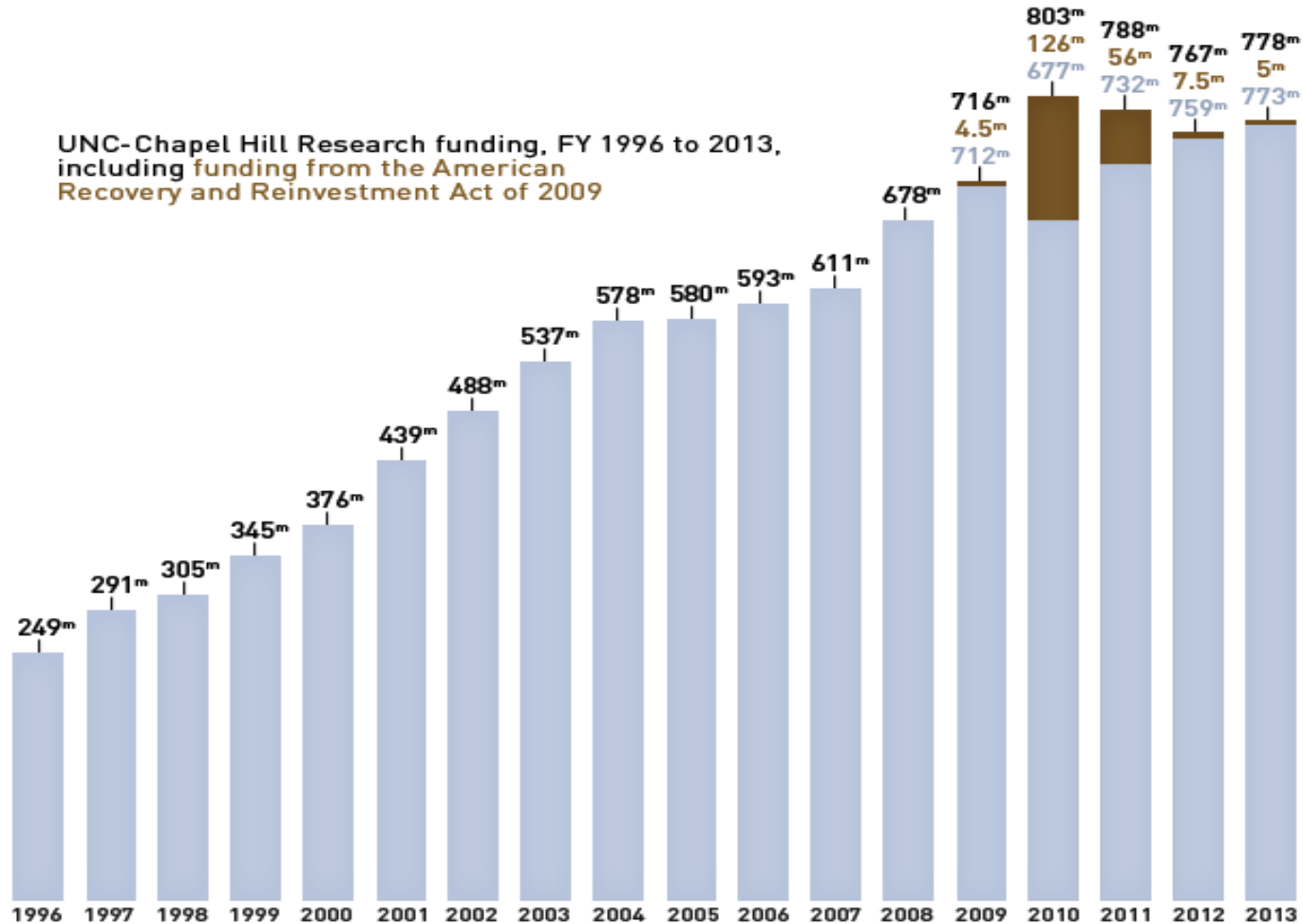
UNC-Chapel Hill, All Sources
Rankings of Disciplinary Groups, FY12

Psychology	#1
Social Sciences	#3
Life Sciences	#10
Chemistry	#18
Computer Sciences	#29
Mathematical Sciences	#36
Physical Sciences	#43
Non-Science	#48

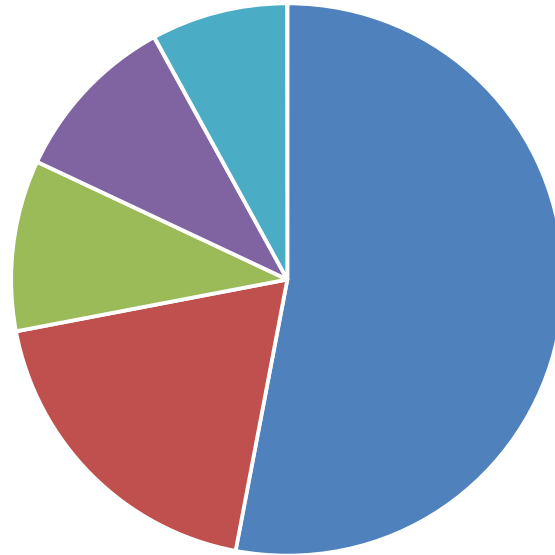


UNC-Chapel Hill Funding Trends (Awards, millions of dollars)

UNC-Chapel Hill Research funding, FY 1996 to 2013,
including funding from the American
Recovery and Reinvestment Act of 2009



UNC-Chapel Hill Funding: Units Administering Awards (YTD)



■ School of Medicine

■ School of Public Health

■ Other

■ Pan-university research centers and institutes

■ College of Arts and Sciences



UNC-Chapel Hill Funding: Four Top Units (YTD)

Two Centers within the School of Medicine
Lineberger Comprehensive Cancer Center
Center for Infectious Disease

Two Centers and Institutes within the OVCR
Carolina Population Center
Frank Porter Graham Child Development
Institute



Selected Major New Awards in FY14 (Selections from top 15)

- Joseph Eron, UNC Global HIV Prevention Treatment CTU. (NIAID)
- Elizabeth Mayer-Davis, FL3X: An Adaptive Intervention to Improve Outcomes for Youth with Type 1 Diabetes (NIDDKD)
- Marschall Runge, North Carolina Translational & Clinical Sciences Institute (NCATS).
- Lynne Kahn, North Carolina Early Learning Network. (NC Dept of Public Instruction)
- Kurt Ribsl (NCI) Robert Tarran (NHLBI), Two of 14 Tobacco Centers of Regulatory Science.
- Roberto Quercia, Community Advantage Panel Study 2014: a longitudinal study of low and moderate income homeowners and renters, Ford Foundation
- Jill Stewart, The Impact of Intensive Livestock Production on the Disease Ecology of MRSA, NSF

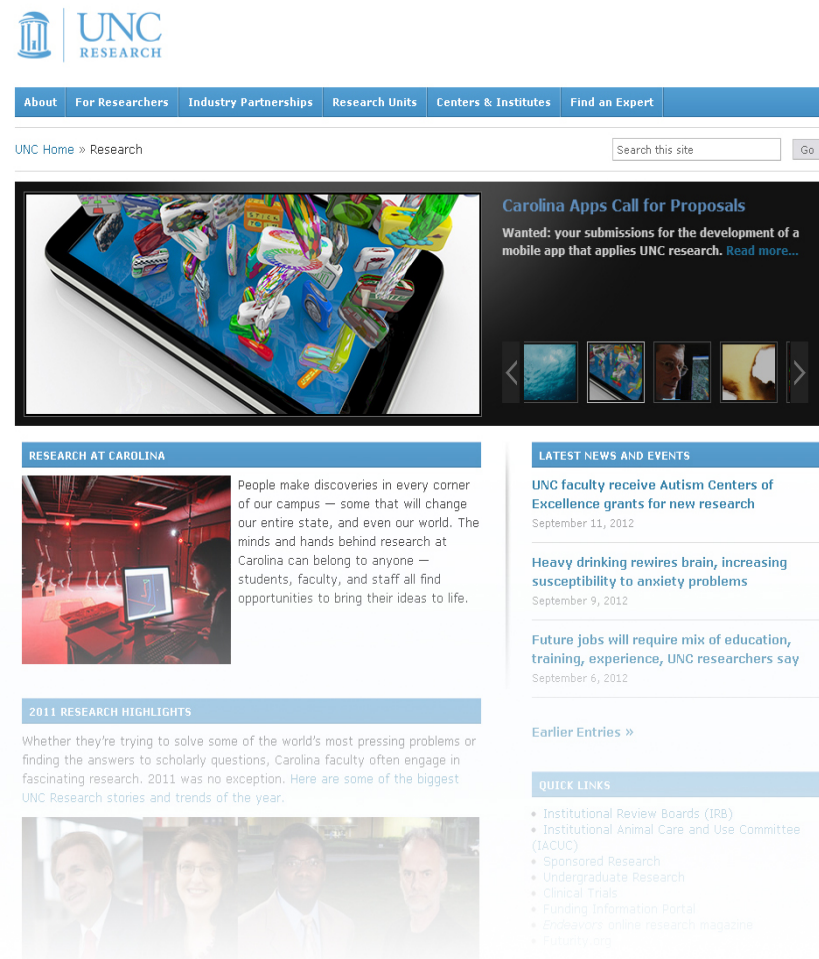
Thank you!

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The screenshot shows the UNC Research website homepage. At the top left is the UNC Research logo. Below it is a navigation menu with links: About, For Researchers, Industry Partnerships, Research Units, Centers & Institutes, and Find an Expert. A search bar is located below the menu. The main content area features a large image of a smartphone displaying various 3D models of molecules and structures. To the right of this image is a section titled "Carolina Apps Call for Proposals" with a sub-headline "Wanted: your submissions for the development of a mobile app that applies UNC research. Read more...". Below this are four small thumbnail images. Further down, there are two columns of news items. The left column is titled "RESEARCH AT CAROLINA" and features an image of a laboratory with a person at a computer. The right column is titled "LATEST NEWS AND EVENTS" and lists three news items: "UNC faculty receive Autism Centers of Excellence grants for new research" (September 11, 2012), "Heavy drinking rewires brain, increasing susceptibility to anxiety problems" (September 9, 2012), and "Future jobs will require mix of education, training, experience, UNC researchers say" (September 6, 2012). Below the news items are sections for "Earlier Entries >>" and "QUICK LINKS" which includes links to Institutional Review Boards (IRB), Institutional Animal Care and Use Committee (IACUC), Sponsored Research, Undergraduate Research, Clinical Trials, Funding Information Portal, Coauthors' online research magazine, and Future jobs.

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Carolina Apps Call for Proposals
Wanted: your submissions for the development of a mobile app that applies UNC research. [Read more...](#)

RESEARCH AT CAROLINA
People make discoveries in every corner of our campus — some that will change our entire state, and even our world. The minds and hands behind research at Carolina can belong to anyone — students, faculty, and staff all find opportunities to bring their ideas to life.

LATEST NEWS AND EVENTS

UNC faculty receive Autism Centers of Excellence grants for new research
September 11, 2012

Heavy drinking rewires brain, increasing susceptibility to anxiety problems
September 9, 2012

Future jobs will require mix of education, training, experience, UNC researchers say
September 6, 2012

Earlier Entries >>

QUICK LINKS

- Institutional Review Boards (IRB)
- Institutional Animal Care and Use Committee (IACUC)
- Sponsored Research
- Undergraduate Research
- Clinical Trials
- Funding Information Portal
- Coauthors' online research magazine
- Future jobs



FY09-13 - Top 25 PIs by Awards Received

PI	Award_Amount
Curtis, Sian	\$147,874,586.65
Sparling, Fred	\$63,855,700.03
Earp, H Shelton	\$58,920,179.00
Piven, Joseph	\$42,015,571.80
Cohen, Myron	\$41,582,277.36
Boucher, Richard	\$36,410,470.00
Runge, Marschall	\$34,193,402.00
Eron, Joseph	\$33,601,528.92
Pisano, Etta	\$29,987,457.90
Entwisle, Barbara	\$29,810,256.00
Ammerman, Alice	\$28,878,344.21
Thomas, Jim	\$28,509,292.00
Kahn, Lynne	\$26,408,583.20
Roth, Bryan	\$26,372,996.47
Swenberg, James	\$26,348,899.00
Margolis, David	\$26,344,734.10
Perou, Charles	\$25,029,106.00
Swanstrom, Ronald	\$22,537,320.00
Heiss, Gerardo	\$22,055,719.00
Couper, David	\$21,681,724.87
Maixner, William	\$21,329,436.00
Desimone, Joseph	\$19,385,223.00
Meyer, Thomas	\$18,993,305.60
Samulski, Richard	\$18,718,124.00
Bacon, Tom	\$18,626,288.00

FY2013 - Top 25 PIs by Awards Received

<u>PI</u>	<u>Award Amount</u>
Thomas, Jim	\$44,885,713.00
Piven, Joseph	\$11,097,743.30
Margolis, David	\$11,019,615.00
Sparling, Fred	\$10,106,000.00
Kahn, Lynne	\$9,688,849.20
Earp, H Shelton	\$9,482,794.00
Stringer, Jeffrey	\$9,224,308.27
Cohen, Myron	\$8,248,987.00
Wilkinson, Jeffrey	\$8,009,469.00
Eron, Joseph	\$7,538,116.31
Roth, Bryan	\$6,678,970.00
Couper, David	\$6,564,183.00
Runge, Marschall	\$6,499,619.00
Swanstrom, Ronald	\$5,610,680.00
Ammerman, Alice	\$5,541,810.00
Maixner, William	\$5,481,184.00
Ramsey, John	\$5,166,499.00
Perou, Charles	\$5,043,357.00
Heise, Mark	\$4,975,796.00
Kieber, Joseph	\$4,714,935.00
Samulski, Richard	\$4,701,710.00
Reid, Stewart	\$4,590,370.00
Baron, John	\$4,244,087.86
Meyer, Thomas	\$4,240,909.60
Guilkey, David	\$4,179,299.00

New Projects Awarded in FY14 (YTD)

<u>FY14 Amount *</u>	<u>PI</u>	<u>Sponsor</u>	<u>Title</u>
\$9,756,231.00	Eron, Joseph	NIH National Institute of Allergy and Infectious Diseases (NIAID)	University of North Carolina Global HIV Prevention and Treatment Clinical Trials Unit
\$6,949,173.00	Mayer-Davis, Elizabeth	NIH National Institute of Diabetes, Digestive, and Kidney Diseases (NIDDKD)	FL3X: An Adaptive Intervention to Improve Outcomes for Youth with Type 1 Diabetes
\$5,650,505.00	Runge, Marschall	NIH National Center for Advancing Translational Sciences (NCATS)	North Carolina Translational & Clinical Sciences Institute (NC TraCS)
\$4,377,623.89	Darville, Toni	NIH National Institute of Allergy and Infectious Diseases (NIAID)	The UPMC Sexually Transmitted Infections Cooperative Research Center
\$3,999,996.00	Tarran, Robert	NIH National Heart, Lung, and Blood Institute (NHLBI)	The Impact of Tobacco Exposure on the Lung's Innate Defense System
\$3,593,031.00	Kahn, Lynne	North Carolina Department of Public Instruction (NCDPI)	NCELN 2013-16
\$3,538,066.00	Ribisl, Kurt	NIH National Cancer Institute (NCI)	Effective Communication on Tobacco Product Risk and FDA Authority
\$2,197,306.00	Van Dyke, Melissa	NCDHHS Division of Child Development	North Carolina Race to the Top-Early Learning Challenge Support
\$2,155,717.00	Ting, Jenny	NIH National Institute of Allergy and Infectious Diseases (NIAID)	Discovery of New Innate Immune Pathways in Viral Recognition
\$2,027,645.00	Baric, Ralph	NIH National Institute of Allergy and Infectious Diseases (NIAID)	Characterization of novel genes encoded by RNA and DNA viruses
\$2,000,000.00	Quercia, Roberto	Ford Foundation	Community Advantage Panel Study 2014: A Longitudinal Study of Low and Moderate Income Homeowners and Renters
\$1,857,920.00	Stewart, Jill	National Science Foundation (NSF)	The impact of intensive livestock production on the disease ecology of antibiotic resistant staphylococcus
\$1,837,391.00	Cilenti, Dorothy	Maternal and Child Health Bureau	National Center for MCH Workforce Development
\$1,800,000.00	Marchetti, Lauren	Federal Highway Administration (FHWA)	Safe Routes to School Clearinghouse 2013
\$1,747,500.00	Reuland, Dan	American Cancer Society (ACS)	Improving Colon Cancer Screening for Diverse Populations
\$1,623,016.00	Nelson, Gary	NCDHHS Division of Social Services (DSS)	The Family and Children's Resource Program
\$1,528,537.00	Sartor, Ryan	National Institute of Diabetes, Digestive and Kidney Diseases	Host Innate Immune-Microbial Interactions in Intestinal Inflammation

* These amounts represent funding for FY14. In the case of multi-year projects, the amount may only represent the first of several years of funding.

New Projects Awarded in FY14 (YTD)

<u>FY14 Amount *</u>	<u>PI</u>	<u>Sponsor</u>	<u>Title</u>
\$1,500,000.00	You, Wei	National Science Foundation (NSF)	SNM / GOALI: Integration of Organic Solar Cells with Engineered Nanostructures for Scalable Manufacturing of Energy Conversion and Storage Devices
\$1,300,000.00	Stringer, Jeff	Seattle Children's Hospital	Preventing Preterm Birth In Zambia
\$1,300,000.00	Piven, Joseph	NIH National Institute of Child Health and Human Development (NICHD)	Clinical Translational Research Center for Neurodevelopmental Disorders
\$1,230,819.00	Runge, Marschall	NIH National Center for Advancing Translational Sciences (NCATS)	North Carolina Translational & Clinical Sciences Institute (NC TraCS)
\$1,200,000.00	Smith, Jason	Agency for International Development (USAID)	Strengthening monitoring, evaluation and research capacity of the community health and social service programs in the United Republic of Tanzania
\$1,151,384.00	Powell, Cynthia	NIH National Institute of Child Health and Human Development (NICHD)	NC NEXUS, North Carolina Newborn Exome Sequencing for Universal Screening
\$1,148,909.00	Carey, Tim	North Carolina Institute of Medicine (NCIOM)	North Carolina Institute of Medicine Research on Health Policy
\$1,100,000.00	Strom-gottfried, Kim	North Carolina Div Mental Health, Devel Dis, Substance Abuse	Behavioral Healthcare Resource Program

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