

**OVERVIEW:** Research and development is a critical contributor to innovation and long-term economic growth, and the United States has a long history of being a global leader. According to a new collaborative report from The Council of State Governments (CSG) and Elsevier—"America's Knowledge Economy: A State-by-State Review"—the United States published more than 536,000 publications in 2013. Predictably, states with larger populations also tended to publish more. For example, California and New York were the top two producers from 2004 to 2013. From 2004 to 2013, a big chunk of United States publications—more than one-quarter—focused on the field of medicine. Over the same period, Massachusetts and California produced the most impactful research—also called field-weighted citation impact—among all states. This brief offers a state-specific snapshot of data pulled from the report. To read the full report, visit [www.csg.org/knowledgeeconomy](http://www.csg.org/knowledgeeconomy).

## 2.54 PUBLICATIONS

PER 1,000 RESIDENTS, 2013

U.S. Average: 1.70 publications per 1,000 residents

## FIELD-WEIGHTED CITATION IMPACT, 2004–13

**1.80** Cited 80% more than  
global average

### MOST IMPACTFUL RESEARCH FIELD

## MEDICINE

Ranked 7<sup>th</sup> among all states in terms of research impact  
and cited **36% more** than the U.S. average in medicine.



## MARYLAND

### TOP COLLABORATING STATE, 2004–13

15,531 Collaborations from 2004–2013 (7.5% of all of North Carolina's publications).

## 6<sup>TH</sup> AMONG ALL STATES

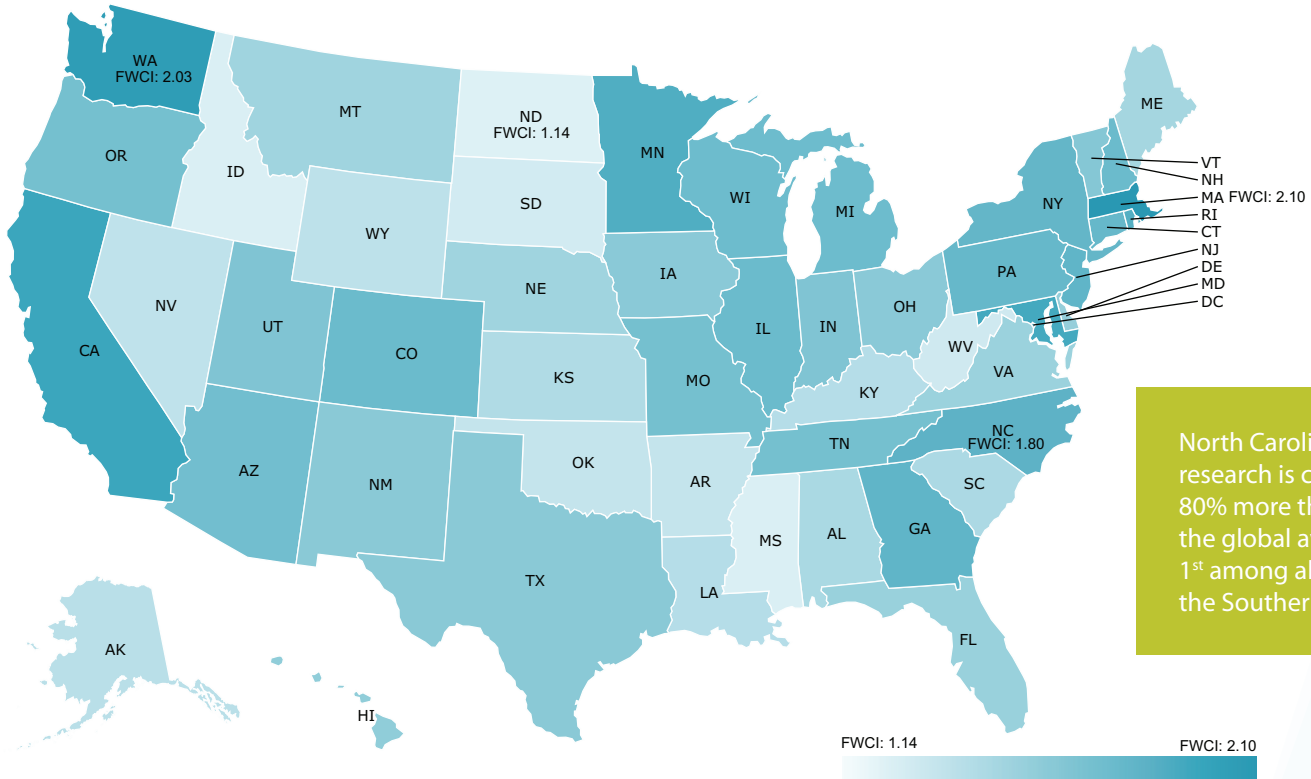
Research strength in biochemistry, genetics,  
& molecular biology, 2004–13

### CRITICAL MASS OF RESEARCH IN HEALTH SCIENCES, 2004–13

**3<sup>RD</sup>—NURSING** | **4<sup>TH</sup>—MEDICINE** | **5<sup>TH</sup>—PHARMACOLOGY & TOXICOLOGY**

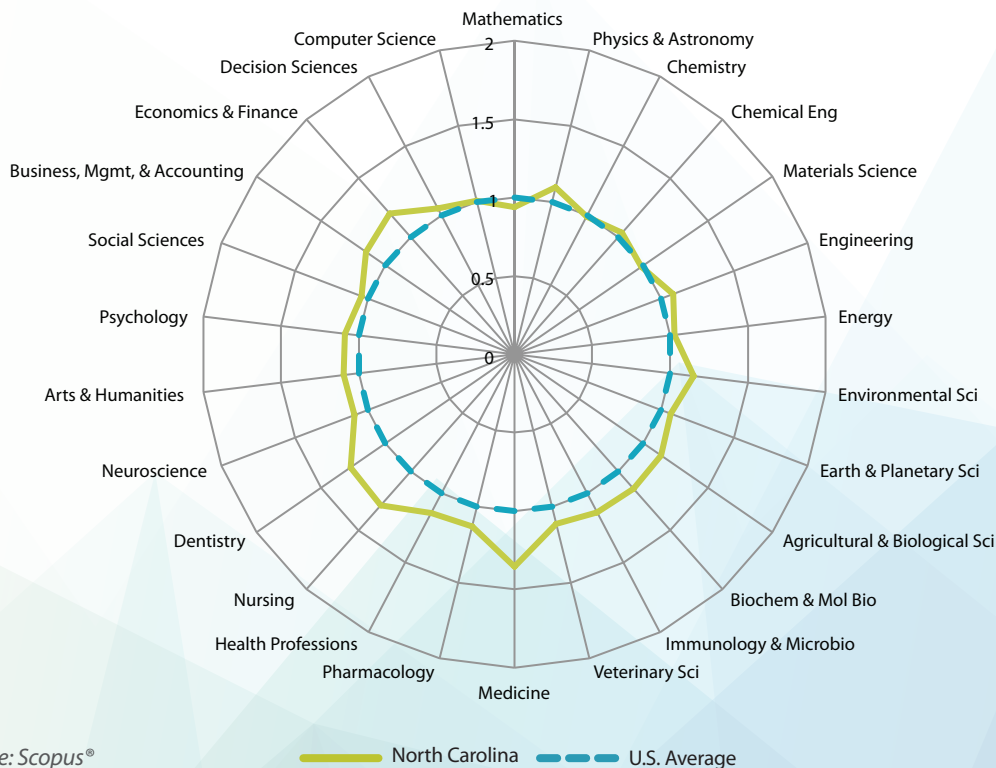
relative volume of North Carolina's research among all states

## Field-weighted citation impact (FWCI) for U.S. States (2004-13)



Source: Scopus®

## Impact Across Research Fields, 2004-13



Source: Scopus®

North Carolina's research in medicine is cited 36% more than the U.S. average.