



UNC

THE NORTH CAROLINA
TRANSLATIONAL & CLINICAL
SCIENCES INSTITUTE

North Carolina Translational and Clinical
Sciences (NC TraCS) Institute

Integrated home of the Clinical and
Translational Science Awards (CTSA)

What is Translational Research?

Translational research includes two areas of translation. One is the process of applying discoveries generated during research in the laboratory, and in preclinical studies, to the development of trials and studies in humans. The second area of translation concerns research aimed at enhancing the adoption of best practices in the community. Translational research improves the health of the population by transforming discoveries from laboratory, clinical and community settings into changes in medical and public health practice and health policy.

NC TraCS Institute

The North Carolina Translational and Clinical Sciences (NC TraCS) Institute, the integrated home of the Clinical and Translational Science Awards (CTSA) program at UNC-CH, is supported through the National Institutes of Health (NIH), grant 1UL1TR001111. The CTSA program is led by the NIH's National Center for Advancing Translational Sciences (NCATS).

The NC TraCS Institute is one of 62 CTSA medical research institutions, a national consortium to improve the way biomedical research is conducted across the country.



NCATS Mission

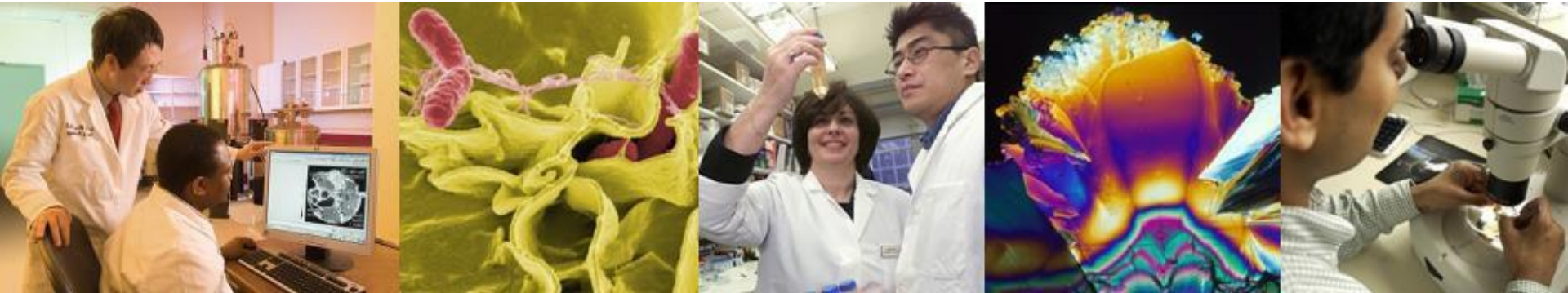


*To catalyze the generation of innovative methods and technologies that will enhance the development, testing and implementation of **interventions that tangibly improve human health** across a wide range of human diseases and conditions.*

CTSAs are led by the Division of Clinical Innovation at NCATS

CTSAs:

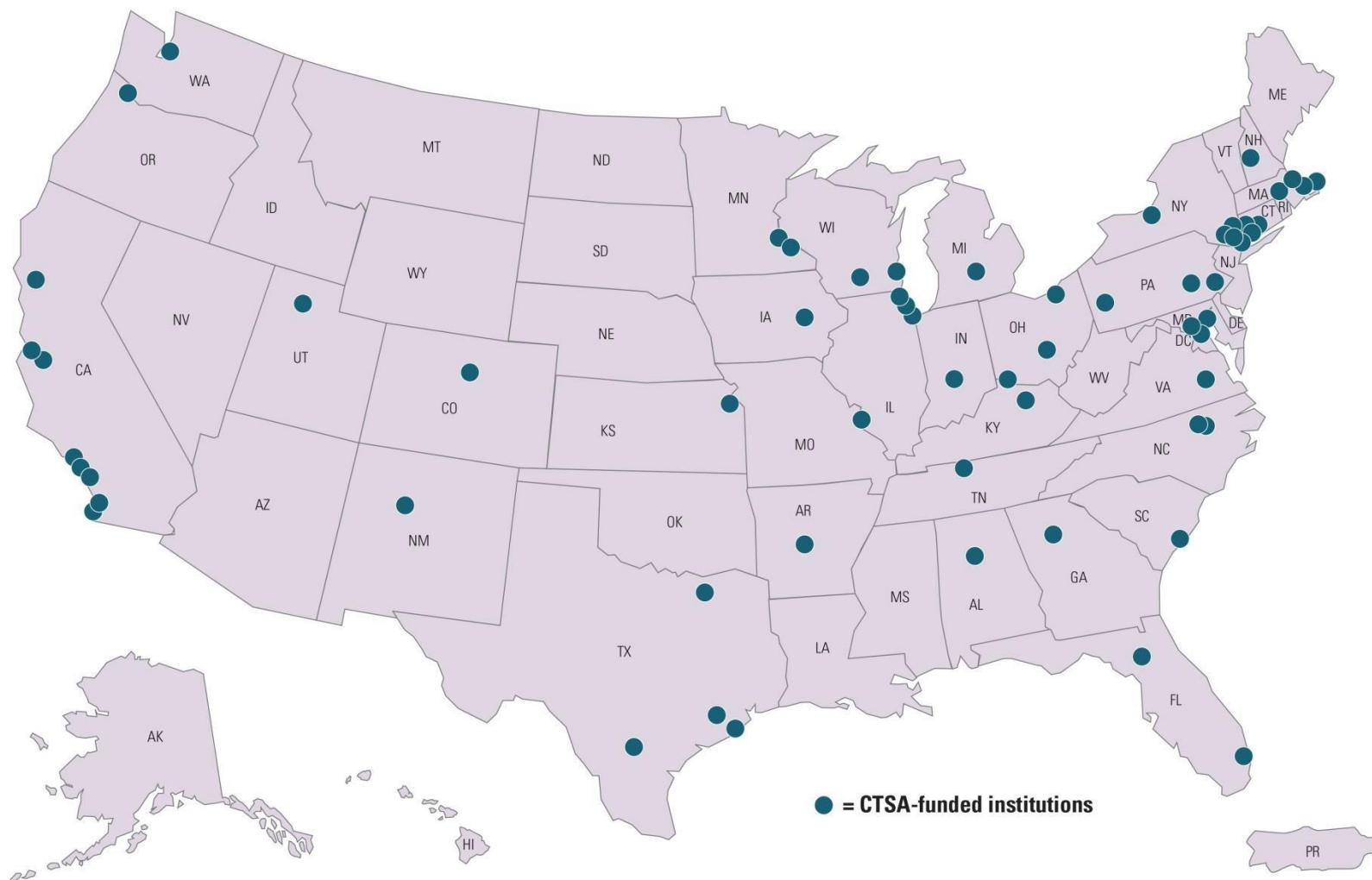
- Support a national consortium of medical research institutions
- Work together to improve the way clinical and translational research is conducted nationwide
- Accelerate the research translation process
- Provide innovative training for clinical and translation researchers



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Clinical and Translational Science Awards (CTSA) Program Sites



Our Vision

To respond nimbly and efficiently, supporting state-of-the-art research and evolving our strategy to keep pace with the demands of change.

To amplify our translational research resources, services and programs in order to enable us to dramatically address the challenges faced by clinical and translational investigators.

Our Aims

We build on success and prepare for the future of translational science by addressing 3 overarching aims:

- Amplify a thriving CTSA program to support the full spectrum of clinical and translational research
- Leverage CTSA resources and institutional strengths on three strategic initiatives
- Train, support and retain the next generation of clinical and translational science researchers

Partner Opportunities with New CTSA Grant

- New partner **RTI International**

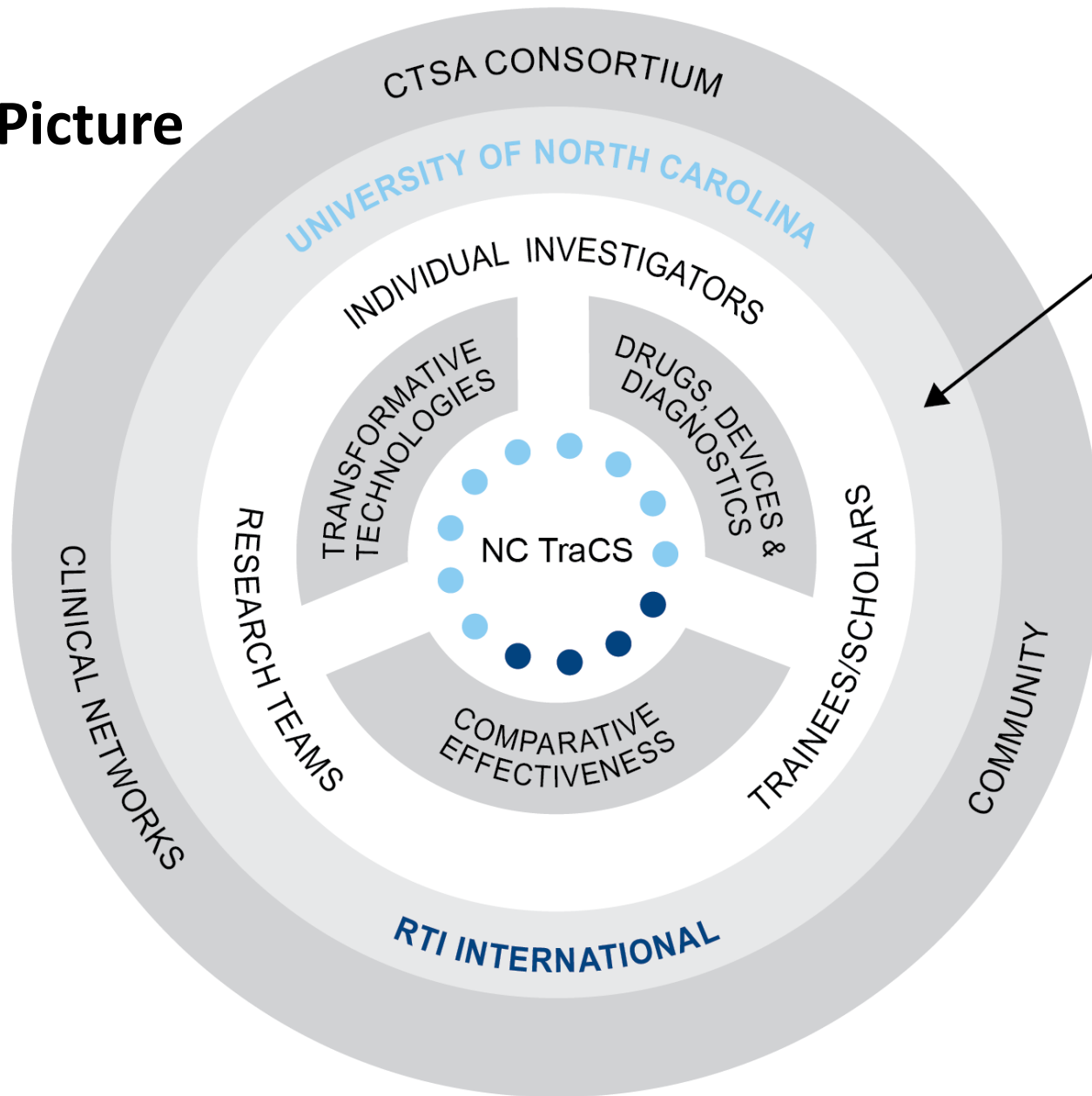
Four competencies that RTI will bring to the partnership:

- Early Phase Drug Discovery
- Preclinical Regulatory
- Metabolomics
- Rare Disease registry

- Planning partner **NC A&T**

Working to identify complementary areas that can be used to bring **NC A&T** into full partnership so that translational research at all three institutions can be enhanced.

The Big Picture

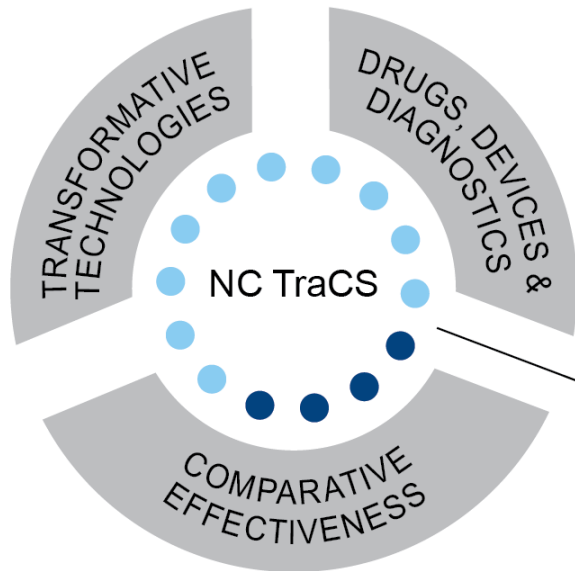


NC A&T
State University
(Planning partner)



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Research Resources and Services for Investigators



Team Science
Translational Advancements
Ethics
Biomedical Informatics
Biostatistics
Participant and Clinical Interaction Resources
Regulatory
Community Academic Resources for Engaged Scholarship
Carolina KickStart
Pilot Program

Services at RTI

Early Phase Drug Discovery
Metabolomics
Rare Disease Registry
Preclinical Regulatory



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NC TraCS Pilot Program

The Pilot Program is designed to encourage and facilitate novel clinical and translational research in its many forms. Cross-disciplinary basic science research addressing the development of therapies, diagnostics or devices applicable to human disease, clinical research/trials, epidemiological studies, and/or community-based research are considered eligible for these awards. TraCS offers a variety of Pilot Grant opportunities ranging from \$2K to \$100K.

NC TraCS Institute Pilot Grant Program

<u>Program</u>	<u>Applied</u>	<u>Funded</u>	<u>Funded %</u>	<u>\$ awarded</u>
\$2k	477	185	39%	\$378,000
\$10k	375	102	27%	\$1,140,000
\$50k	208	87	42%	\$4,350,000
\$5k-50k	191	61	32%	\$2,785,000
Other	81	27	33%	\$346,000
TOTALS	1,332	462	35%	\$8,999,000

Funded 951 unique investigators from:

- 88 different UNC departments & divisions
- 10 UNC Schools & 29 UNC Centers / Institutes
- 67 Outside Institutions in 4 countries

TraCS Pilot grants have resulted in:

- 164 funded external grants totaling \$98 million
- 135 confirmed publications in scientific journals
- 357 conference presentations
- 226 other community activities

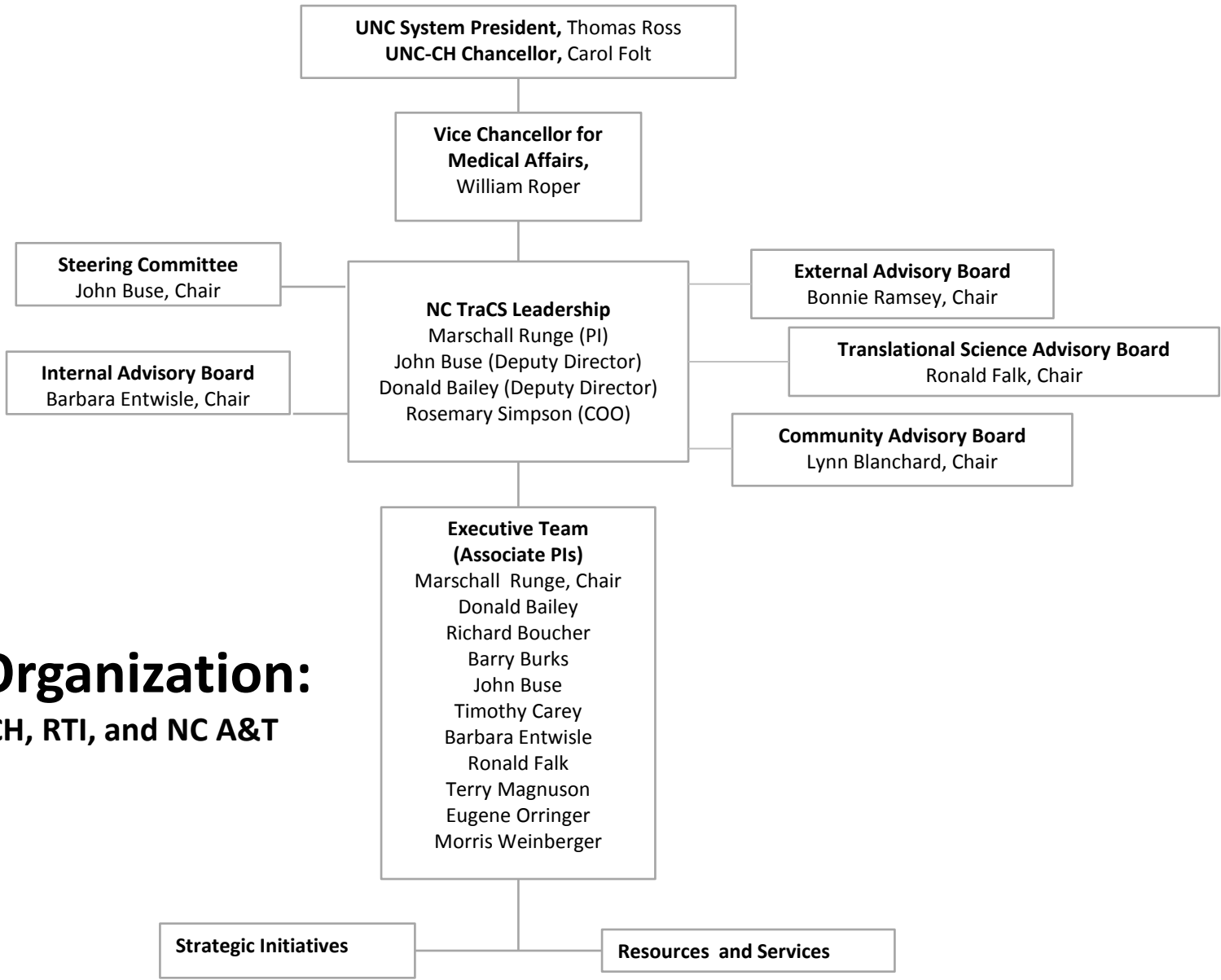
Strategic Initiatives

Leverage resources & institutional strengths to create a critical & sustained focus on 3 Strategic Initiatives:

1. Transformative Technologies (T²) – focused on discovery and validation
2. Drugs, Devices and Diagnostic Development (4D) – focused on development and commercialization
3. Comparative Effectiveness Research (CER) – focused relative effectiveness of existing medical interventions

How Will NC TraCS Do This?

The Strategic Initiatives are structured to help individual investigators with their particular needs by providing a no cost, personalized mentoring program that brings to bear highly specialized expertise in three specific areas of translational research.



NC TraCS Organization:

Made up of UNC-CH, RTI, and NC A&T



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To contact/engage with NC TraCS

For more information about NC TraCS offerings and to engage one of our many experts, you can:

Check us out at <http://tracs.unc.edu/>

Call us at 919-966-6022 /toll-free at 1-866-705-4931

Email us at nctracs@unc.edu

Visit us at tracs.unc.edu or on campus in Brinkhous-Bullitt, 2nd Floor

Questions/Discussion

Thank you!