

# Research Team Support

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# Research Team Support

## **Catalyze health research collaborations**

- Productive cross-disciplinary research collaboration is an essential feature of a robust translational research enterprise.
- NUCATS Research Team Support (RTS) is charged with specifically focusing on advancing team-based, cross-disciplinary translational biomedical research collaborations.

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# Research Team Support

## **Advancing Team-based, Cross- Disciplinary Translational Biomedical Research**

- Praxis of Team Science
  - Catalyze new clinical and translational multi-, inter- and transdisciplinary research initiatives
  - Develop resources and tools to promote collaboration
- Science of Team Science
  - Sponsor Annual International Science of Team Science Conference in Chicago
  - Conduct and support research on the science of team science

# Research Team Support

## Praxis of Team Science

- With the increased demand for collaboration across diverse science, medicine, engineering, business, and humanities disciplines, there has been a trend toward working in scientific teams to address complex environmental, social, and public health problems.

# Research Team Support

- Catalyze new clinical and translational cross-disciplinary research initiatives – Research Development activities
  - Coordinate special catalytic research events that encourage new research initiatives and launch new collaborations
  - Catalyze program development in response to the funding opportunity landscape and new research directions
  - Provide guidance and expertise for building and fostering connections and teams
  - Coordinate and manage large and complex proposal efforts by teams of researchers
  - Identify and disseminate funding opportunities

# Research Team Support

- Develop resources and tools to promote collaboration
  - Oversee knowledge management tool selection, development, and implementation
  - Develop and produce online Team Science learning modules
  - Direct a new, for-credit graduate Team Science course
  - Define processes and infrastructure necessary to promote collaboration
  - Develop a “collaboration portal” from the NUCATS home page with info about self-service and facilitated collaboration services
  - Opportunity to partner with Northwestern Institute on Complex Systems (NICO) on a team science evaluation service core

# Research Team Support

## Science of Team Science

- There is interest in studying the methods and processes associated with team science, and in determining ways to define, track, and measure team science efficiency and success. The empirical field that does just that is termed the ***science of team science***.



# Research Team Support

- Sponsor Science of Team Science Conference
  - First annual conference April 22-24, 2010 in Chicago
  - Serve as a conduit between team science investigators and practitioners/leaders of science teams
  - Conduct a science of team science concept mapping project to better define field
  - Afford data providers and analytics developers insight about team tracking and analysis needs
  - Engage funding agency program staff to provide guidance on developing & managing team science initiatives and funding opportunities to support the science of team science

# Research Team Support

- Conduct and support research on the Science of Team Science
  - Study enabling compelling, interactive data-driven visualization and exploration of the relevant science networks to increase the amount and understanding of translational research conducted with NUCATS support
  - Understanding best practices of networks aiming to uncover the network mechanisms that facilitate assembly of high impact collaboration
  - Investigate early prediction of the impact of research through large-scale analysis and modeling citation dynamics
  - Science of Team Science Concept Mapping Project

# Research Team Support

- Northwestern Partners
  - Science of Networks in Communities (SONIC)
  - Northwestern Institute on Complex Systems (NICO)
  - NUIT Academic & Research Technologies (A&RT)
  - Kellogg School of Management
  - CollaboLab, School of Communication
  - Center for Technology and Social Behavior (CTSB)
  - Complexity in Action Network (CANet)
  - Northwestern Medicine Collaboration Task Force (CTF)
  - National CTSA Committees

Thank you! Questions?

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