



SciTS

CONFERENCE 2018  
PRESENTATIONS



# FEATURED SPEAKERS

***Monday, May 21***



## **Vaccines, Autism, and Blue Marble Health**

**Peter Hotez, MD, PhD**

Dean, National School of Tropical Medicine  
Professor, Departments of Pediatrics  
and Molecular Virology & Microbiology  
Baylor College of Medicine

Director, Center for Vaccine Development  
Texas Children's Hospital

***Tuesday, May 22***



## **Lessons Learned from Leading an Interdisciplinary Research Funding Program: From Teams to Studies to Application**

**James Sallis, PhD**

Distinguished Professor Emeritus  
Department of Family Medicine and Public Health  
UCSD School of Medicine

***Tuesday, May 22***



## **Collective Intelligence in Scientific Teams**

**Anita Williams Woolley, PhD**

Associate Professor of Organizational Behavior & Theory  
Tepper School of Business  
Carnegie Mellon University

***Wednesday, May 23***



## **Team Collaboration and Conflict**

**Laurie R. Weingart, PhD**

Interim Provost  
Tepper School of Business  
Richard M. and Margaret S. Cyert Professor of  
Organizational Behavior and Theory  
Carnegie Mellon University

# FEATURED PANEL

*Wednesday, May 23*

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## Funding SciTS Research: Historical Perspectives, Practical Lessons Learned, and New Opportunities

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### **Kara L. Hall, PhD**

Director, Science of Team Science  
Director, Theories Initiative  
Health Behaviors Research Branch National  
Cancer Institute



### **Edward T. Palazzolo, PhD**

Program Manager  
Social and Cognitive Networks  
Army Research Office



### **Maritza Salazar, PhD**

Assistant Professor of  
Organization and Management  
Paul Merage School of Business  
University of California – Irvine



### **Michael O'Rourke, PhD**

Interim Director,  
MSU Center for Interdisciplinarity  
Professor of Philosophy  
AgBio Research  
Michigan State University

# THEMATIC PAPER SESSIONS

Tuesday, May 22

## Future Directions

Moderator: Elias Samuels

Paper: Applying Artificial Intelligence, Neural Networks, and Machine Learning to SciTS (Stephanie Vasko)

Paper: [Complex Adaptive Team Systems \(CATS\)](#) (John Turner et al)

## Non-Academic Dimensions of Team Science

Moderator: M Scott Poole

Paper: The Integral Role of Non-Scientific Specialists: A UK Case Study (Ruth Norris et al)

Paper: [Policy Levers to Open Federal Laboratories and Incentivize Public-Private R&D Collaborations](#) (Vanessa Pena)

## Communication in Team Science - Analysis and Facilitation

Moderator: Michael O'Rourke

Paper: [Information Sharing Techniques to Close Gaps in Distance Collaboration](#) (Laura Anderson et al)

Paper: Gaps and Overlaps in Healthcare Team Communication: Analysis of Speech (Tayana Soukup et al)

## Learning Environments for Team Science

Moderator: Anne Heberger Marino

Paper: [Syncopated Pandemonium: Redesigning a College for Translational Science and Learning](#) (Christopher Wharton et al)

Paper: [Teaching Team Science](#) (Jennifer Cross et al)

## Leadership

Moderator: Heather Billings

Paper: [Introduction to Leadership Training for Pre-Doctoral Students Engaged in Team Science](#) (Celia Chao et al)

Paper: Contextual Factors Influencing Collaboration: Using a Followership Lens (Karen Schwab)

Paper: [Team Emergence Leadership Development and Evaluation Model Using Complexity Theory](#) (John Turner et al)

## Team Performance Metrics

Moderator: Felichism Kabo

Paper: [Team-Centered Informatics: Leveraging Team Science for Designing Effective Informatics Solutions](#) (Suresh Bhavnani et al)

Paper: Scholar Plot: Well-Abstracted and Scalable Interface for Academic Performance (Ioannis Pavlidis et al)

Paper: [Decoding Teams: Team Output and Individual Productivity](#) (Mohammad Ahmadpoor et al)

## Panel - Team Scientists as Subjects: An Examination of Three Preliminary Studies

Moderator: Erin Blakeney

[Evaluation of a Pilot Team Leadership Assessment Center for Team Scientists](#) (Kevin C. Wooten et al)

[An Exploration of How Emergent Collaboration Patterns Relate to Project Performance of Embedded Interdisciplinary mHealth Teams](#) (Bonnie Spring et al)

[Randomized Trials to Understand and Enhance Early-Career Collaboration in the CTSA Network: Refining Process and Outcomes](#) (Larry Hawk et al)

# THEMATIC PAPER SESSIONS & PANELS

Tuesday, May 22

## Panel - Case Studies and Lessons Learned in Promoting Team Science in Cross-Disciplinary Collaborations and Institutions

Moderator: Karen Demby

Examples of Mechanisms to Stimulate Cross-Disciplinary Team Collaborations (Dayan Ranwala)

[Understanding Social Mechanisms of Team Science: Using a Case Example of Individual and Team Level Analysis](#)  
(Gaetano R. Lotrecchiano)

[Strategies and Challenges in Application of the Evidence Base to Promote Translational Team Science](#)  
(Allan Brasier)

Team Science, Not Only About Science  
(Elizabeth Travis)

## Building Teams in a Biomedical Context

Moderator: Maritza Salazar-Campo

Paper: [Interprofessional Team Approach for Developing Sexual Assault Assessment Training](#)  
(Wendy Lee)

Paper: [Fault Lines and Best Practices in the Treatment of Substance Abuse](#)  
(Chester Spell et al)

Paper: [Using TL1 Teams to Transform Clinical & Translational Science Training](#) (Wayne McCormack et al)

Paper: [Will They, or Not? Factors Associated with Consulting a CTSA](#)  
(Felichism Kabo et al)

## Team Science – The Student Perspective

Moderator: John Kues

Paper: [Student Perceptions Before and After Interprofessional Experiences in Biomedical Training](#) (Joon Moon et al)

Paper: [Student Reflections of Interprofessional Experiences in the Biomedical Sciences](#)  
(August Schaeffer et al)

Paper: [Case Study of Interdisciplinary Student Research Teams: Factors, Outcomes, and Lessons Learned](#) (Brent Ladd)

Paper: [Collaborative Team Science Supports Integrative Research in the Chesapeake Bay](#)  
(Suzanne Spitzer et al)

## Big Data Bibliography

Moderator: Michael Hoffman

Paper: Mendeley Science of Team Science (SciTS) Library (Holly J. Falk-Krzesinski)

Paper: [First Steps to Systematic Review of Very Large Biomedical Research Teams](#)  
(Yulia Tyshchuk et al)

## Tools for Team Science

Moderator: Stephanie Vasko

Paper: [Exploring Visual Analytics as Boundary Objects in Multidisciplinary Science Teams](#)  
(Suresh Bhavnani et al)

Paper: [Team Disciplinary Diversity: Open Innovation of a Widget](#)  
(Brooke Struck et al)

Paper: [Assessing Quality Improvement Team Processes - A Meeting Observation Tool](#)  
(Emily Sedlock et al)

## Team Evaluation

Moderator: Marisa Rinkus

Paper: [The Connection Between Team Development and Team Outcomes](#) (Hannah Love et al)

Paper: Employing a Communication Chemistry Framework to Advance Team-Based Cancer Research  
(Breeana Mitchell et al)

Paper: [Do Interventions for Academic Scientific Teams Matter?](#) (Ellen Fisher et al)

# THEMATIC PAPER SESSIONS

Wednesday, May 23

## Team Science – Analytics

Moderator: Graham Hubbs

Paper: [Collaboration Capacity: Measuring the Impact of Cyberinfrastructure-Enabled Collaboration Networks](#)  
(Jian Qin et al)

Paper: Interactive Bibliometric Network Mapping for Evaluating Interdisciplinary Research Groups  
(Michael Burnham-Fink)

Paper: [Accelerating Innovation in Multidisciplinary Scientific Teams through Visual Analytics](#)  
(Suresh Bhavnani et al)

## Enabling Collaboration – Community Structure

Moderator: Christine Hendren

Paper: [Key Factors for Success of Transdisciplinary Research Teams](#)  
(Paul Dodd et al)

Paper: [A HATENATHON Approach Report on Promoting SciTS in Japan](#)  
(GE Wang et al)

Paper: [Facilitating and Implementing Team Science During the ECHO's Developmental Phase](#)  
(Christina Park et al)

Paper: [Encouraging Self-Organized Collaborations at an Interdisciplinary Research Institute](#)  
(Kristine Fowler)

## Panel - Translating Team Training from Healthcare and Education to CTSA Research Teams

Moderator: Bonnie Spring

Panelists: Erin Blakeney, Brenda Zierler, Jennifer Sprecher

[Team Training with Interprofessional Health Professions Faculty](#)

[Team Training with Practicing Healthcare Teams](#)

[Incorporation of Lean-R into Team Science](#)

## Identifying Tasks and Roles to Enhance Team Science

Moderator: Deborah DiazGranados

Paper: [The Role\(s\) of the Consultant in Team Science](#)  
(Joseph Kotarba et al)

Paper: [Enhancing Team Science Through Mobilizing the Diversity-Creativity Tension](#)  
(M. Scott Poole et al)

Paper: [Is Collaboration a Scientific Virtue?](#)  
(Stephen Crowley)

## Creating Innovators

Moderator: Hannah Love

Paper: [Building Interdisciplinary Capacity for Team Science: The Interdisciplinary Translation Initiative](#) (Andi Hess)

Paper: [Some Like It Cool: Tracking Changing Temperatures of Interdisciplinary Team Dynamics](#) (Rebecca Freeth)

Paper: [Only Diamond Can Cut Diamond in Science](#)  
(Lingfei Wu)

## Improving our Practices

Moderator: Dayan Ranwala

Paper: [Measuring Cognitive Interaction Capability in Teams: Scale Development and Validation](#) (Maritza Salazar et al)

Paper: [Evidence for Integrative Reasoning in Interdisciplinary Team Science](#)  
(Bethany Laursen et al)

Paper: [Interdisciplinary Team Science Proposal Development](#)  
(Holly J. Falk-Krzesinski)

# TEAM SCIENCE TRAINING

Thursday, May 24

Team Science Training:  
[Status of Team Science](#)



Kara L. Hall, PhD

Team Science Training: Track 1  
[Transformational Leadership](#)  
[Skills for Translational Sciences](#)



Kevin C. Wooten, PhD



Eugene Frazier

Team Science Training: Track 2  
[Brainstorming for Innovation](#)  
[in Team Science](#)



Maritza Salazar, PhD