

## Scientists pave way for improved teamwork on collaborative research efforts

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Tackling today's complex scientific questions often requires work from interdisciplinary collaborative research teams - and working in those teams can create its own problems. Now a group of researchers from around the country, including North Carolina State University, has published a commentary in the journal *Science Translational Medicine* outlining a new field of study that will help resolve problems facing interdisciplinary research teams.

The new area of study, called the "science of team science," or SciTS (rhymes with sights), focuses on what works and what doesn't when teams of scientists are working together to accomplish an overarching research goal. Improving teamwork in these situations is important, says Dr. Joann Keyton, a professor of communication at NC State and coauthor of the paper, because research initiatives increasingly involve researchers in different disciplines, at different institutions and, often, in different countries.

The paper represents the first time that physical scientists, life scientists and social scientists have come together to address SciTS. Their goal, Keyton says, is to let the research community know that the dynamics of team research are now a recognized field of study, and that they are increasingly important to both public and private research funding agencies.

Improving teamwork in interdisciplinary collaborations is going to become more important for researchers who hope to get funding from



public or private sources. "This is going to affect policy," Keyton says. "When people apply for grants, they're going to be asked to demonstrate that they understand how teams can effectively work together. Simply assembling a team isn't going to be enough for funding agencies anymore - funding agencies want to know that the team will be adequately supported and able to function successfully.

"Team science raises new challenges," Keyton says. "Language is often a problem. For example, scientists in different disciplines may use the same term to refer to very different things. There can be a major misunderstanding between researchers on the same research team, and they won't even know it."

The increasing complexity of both scientific problems, and the teams that are assembled to tackle them, creates an opportunity for <u>social</u> <u>scientists</u> to help identify, characterize and resolve problems related to working collaboratively. "We can help investigators determine the best way, for example, to facilitate communication among team members, make consistent and informed decisions, and evaluate how well the research team is performing," Keyton says.

**More information:** The paper, "A Multi-Level Systems Perspective for the Science of Team Science," is published in the Sept. 15 issue of *Science Translational Medicine*.

## Provided by North Carolina State University

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