Overview: As part of Mayo Clinic Convergence Neuroscience, all submitted abstracts will be shared via selected electronic poster (ePoster) at the meeting. Submitted abstracts may include converged science projects involving laboratory teams or transdisciplinary teams (clinical or basic science, biomedical and/or computer science, or engineering research with integrated team with work in design chemical, physical, mechanical,, electrical or biomedical realms). Posters will be peer-reviewed and accepted abstract recipients. The submission deadline for abstracts is **Monday, October 9, 2017.** At least one of the authors must register and attend the conference.

Abstract Eligibility: All abstracts will be reviewed based on their merit by a peer-reviewed process for acceptance at the course. The type of abstracts reviewed will include the following below:

1.) **National Academies of Science and Medicine themed convergence topics including:**
   a. **Basic and Translational science teams.** This includes basic laboratory and clinical or surgical teams working on discovery.
      i. **For example:** biomedical engineering needed for device creation for operative surgery, or molecule creation for new drug therapy with chemists, biochemists etc).
      ii. Another example is neural engineering and spinal cord injury, or creation of organ specific biomedical devices or compounds, or
   b. **"Convergence challenges"** are gaps in scientific knowledge that calls for a converged science solution invoking other disciplines for ideas.
      i. Convergence toward creation of unique compounds, materials, software, systems or devices that accelerate other industries such as agriculture, clean energy (e.g., solar), clean water for developing countries and water systems, technology/computing, or application of existing technology in new forms that advances an industry such as use of machine learning/deep learning,
      ii. "Design challenges" represent an idea which will be presented and Q&A from audience members to suggest 'converged solutions' or scientific teams to solve the knowledge gap.
2.) **NSF Convergence Concept and categories:**
   • Harnessing Big Data Revolution for 21st Century Science and Engineering
   • Navigating the New Arctic
   • The Quantum Leap: Leading the Next Quantum Revolution and Nanomedicine and nanoscience
   • Work at the Human-Technology Frontier: Shaping the Future and Mobile Health, Digital Health
   • Precision Medicine: NSF's Another Big Idea, Understanding the Rules of Life: Predicting Phenotype, is actively promoting
   • Convergence research through other mechanisms.

Deadline: Abstract submission deadline is **Monday, October 9, 2017.**

Notification of Results: All primary authors will be notified as soon as one week from submission and no later than **Monday, October 13, 2017** if their submission has been selected for the poster session, and details regarding poster set-up will follow.

Inquiries: For further information, contact Denise Klarich/ flacmeabstracts@mayo.edu

Abstract Form
Mayo Clinic Convergence Neuroscience
October 24-25ᵗʰ 2017

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    d. Conclusion:
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8. The deadline for submission of abstracts is **October 9, 2017**

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