

NATIONAL ACADEMIES Medicine

Exploring the Bidirectional Relationship Between Artificial Intelligence and Neuroscience

DAY 1 March 25, 2024 • 2:00 PM – 5:00 PM ET **DAY 2** March 26, 2024 • 9:30 AM – 4:00 PM ET

Workshop Objectives

- Explore the bidirectional relationship between neuroscience and AI, including the contributions neuroscience has made to the development of AI and the utilization of AI to further understanding of the brain.
- Discuss the utility and limitations of AI in basic, translation, and clinical neuroscience research.
- Examine the potential for autonomy and agency in AI systems, and the associated implications for the field of neuroscience.
- Discuss the key role of neuroscience in equipping regulators and the public with knowledge and resources for the responsible use of AI in research, clinical, and general applications.
- Consider research priorities and public education needs regarding the role of neuroscience in AI and AI in neuroscience research.





Workshop Overview

Welcome Remarks

Keynote Lecture

Session 1: The Bidirectionality of Neuroscience and Artificial Intelligence (AI)

Session 2: R&D Considerations for Neuroscience & AI

Session 3: Impact of AI in Medical & Clinical Environments

- Session 4: Communication & Engagement with the Public & Lived/Living CNS Disorder Experience
- Session 5: Regulatory & Policy Advocacy and Engagement

Session 6: Synthesis & Opportunities to Move Forwards













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