

Agentic AI and Robotics: Accelerating Discovery for AD/ADRD and Beyond

August 27, 2026 | 2:00–6:00 PM EDT



Workshop Description

Organized by the National Institute on Aging (NIA), this virtual workshop convenes leading experts from academia and industry to explore how agentic AI and robotics are transforming biomedical research by accelerating the pace and rigor of scientific discovery.

Speakers will highlight AI systems that synthesize evidence and support hypothesis generation, models that integrate complex multimodal datasets, and robotics-enabled platforms that automate laboratory workflows.

Together, these advances point toward a future in which AI-powered research systems integrate experimental design, disease modeling, and laboratory execution as an intelligent process to improve the scale, reproducibility, and efficiency of biomedical research, accelerating the path from biological insight to therapeutic development for AD/ADRD and other complex diseases.

Organizing Committee

Steven Finkbeiner

Gladstone Institutes/UCSF

Jason Moore

Cedars-Sinai

Jennie Larkin

National Institute on Aging

Alison Yao

National Institute on Aging

Agenda

2:00–2:05	Welcome and Opening Remarks Jennie Larkin, NIA
2:05–2:10	Workshop Overview and Logistics Alison Yao, NIA
2:10–2:25	NIH AI Strategy Brad Bower, National Institutes of Health

Register Online

Share with interested colleagues.



Session 1: AI Agents & Multimodal Discovery	
2:25–2:50	Overview of Agentic AI Jason Moore, Cedars-Sinai
2:50–3:15	Multimodal AI for Healthcare Development Daguang Xu, NVIDIA
3:15–3:40	AI Co-Scientist and Application in ALS Annalisa Pawlosky, Google
3:40–4:05	Biomni-AD: The AI Co-Scientist That Turns Alzheimer's Data into Discoveries Towfique Raj, Mt Sinai School of Medicine
4:05–4:15	Break

Session 2: Robotics and Modeling for Disease Insight	
4:15–4:40	Multi-Modal Modeling in Precision Medicine Olivier Gevaert, Stanford University
4:40–5:05	Closing the Loop on Neurodegeneration: Robotics, AI, and the Thinking Microscope Steven Finkbeiner, Gladstone Institutes/UCSF
5:05–5:30	Agentic Omics Discovery: From Robotic Perturbation Proteomics to Reuse of Published Data Jesse Meyer, Cedars-Sinai
5:30–6:00	Panel Discussion