

Team: Biomni-AD

Project: Biomni-AD: A General-Purpose AI Co-Scientist with Unified Alzheimer's Data Integration

Stage: Prototype release

Project Summary

Biomni-AD is an open-source, general-purpose biomedical AI Co-Scientist specialized for AD research. Biomni-AD integrates expert-curated AD omics, single-cell, biomarker, and clinical multi-modal data into a unified "AD datalake". Based on each user's scientific question, the agent autonomously plans and executes reproducible code workflows using its 150+ bioinformatics tools, 60+ databases, and 32 AD datasets. Biomni-AD will provide a wide range of AD researchers a high-speed engine to accelerate progress in gene discovery, biomarker validation, and therapeutic development.

Team Members

Kuan-lin Huang, Kexin Huang, Henry E. Miller, Jure Leskovec, Towfique Raj, Bin Zhang

Organizations



Shift**bioscience**



Presenters



Kuan-lin Huang

Associate Professor,
Icahn School of
Medicine at Mount Sinai



Kexin Huang

PhD Student,
Stanford University