ADVANCING BRAIN HEALTH

The Ultimate Goal is Prevention and Personalized Medicine for Brain Health

To realize this vision, we have spearheaded a brain health roadmap that capitalizes on new technologies and innovative approaches to foster wellness and catalyze precision biomarkers, diagnostics and therapeutics.

Our approach is to build enabling platforms with strategic partners and to adopt a team science approach to fast-track brain health solutions in years, not decades.

An evidence-based, data-driven approach to research is essential to understanding brain disease.

Data standards and standard operating procedures (SOP)

Large, well-curated multimodal data for biomarker discovery & validation

Cloud-based data commons with the capacity to store, secure and analyze petabyte levels of data

Improved outcome measurement tools

Construct-valid and replicable animal models of disease

Biorepositories, biobanks and national brain imaging reference databases

Computational and predictive models to simulate disease

New technologies for measuring brain biosignatures

Translational Tools
We “bridge the gap” from bench to bedside in unmet needs, prescriptively transforming reproducible discoveries into evidence-based therapeutics.
Our translational “tools” include biomarkers, preclinical modeling, biorepositories and reference libraries.

Data Science
We support data-sharing platforms to enable integration of ‘big data’ across brain diseases and apply artificial intelligence to build predictive models for critical insights.

Digital Health
We are using wearable and smart technologies that deliver continuous, real-time monitoring - enhancing communications between providers and patients and facilitating personalized care for people suffering the effects of brain trauma.

Clinical Therapeutics
We are driving preventive & precision therapeutics by revolutionizing and de-risking the way targets are identified and clinical trials are conducted. We leverage our translational tools & data models to identify best targets. We implement novel adaptive clinical designs and apply cutting-edge technologies to accelerate development.

SUPPORT OUR RESEARCH AND LEARN MORE
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