Founded in 2019, <u>Omniscient</u> (o8t) is a world leader in the field of <u>connectomics</u> - the functional mapping of the human brain. Our technology is transforming medicine's understanding of the brain – from prevention to diagnosis and treatment - for all neurological disorders, from brain tumors to depression.

We aim to facilitate the emergence of a brain economy by providing precision brain mapping solutions to a fast-growing ecosystem of clinicians, therapeutics developers, researchers and innovators.

Our mission is to improve the lives of billions through connectomics.

COMPANY PROFILE

EMPLOYEES: 110 (North America, China, Europe, Australia)

GROWTH: Already at 10 US hospitals incl. U. Miami, highest volume brain tumor center in the US

CURRENT PRODUCTS:

Quicktome Precision Brain Medicine Software – **FDA cleared**

March 2021

Infinitome neuro research platform for clinical researchers

LEARN MORE ABOUT US

THE CONNECTOME ACADEMY

Provides a deeper understanding of the field of connectomics

60 MINUTES STORY

Feature on how our technology uncovers mysteries of brain disorders

OUR ROLE IN DEPRESSION TREATMENT

Short film on how our technology helps depression patients

OUR JOURNEY SO FAR

Forbes article outlining our journey as a company

MANAGEMENT TEAM

Stephen Scheeler CEO

Dr Michael Sughrue Chief Medical Officer

Dr Stephane Doyen

Chief Data Scientist

Rob Malcolm

Chief Operating Officer

Todd Smalley

Chief Commercial Officer

Adam Fraser

Chief Financial Officer

WHAT IS CONNECTOMICS?

Connectomics combines data science and neuroscience to map the human brain. Ability to map the human brain and break it down into more understandable components leads to better diagnosis and treatment of brain disorders, or improvements to brain performance.

THE CHALLENGE

Like genomics in 2000, connectomics in 2016 faced a translational gap. Traditional research software lacks the scale of brain scans required to rapidly bring new applications to market and scale – limiting the growth and advancement of the field.

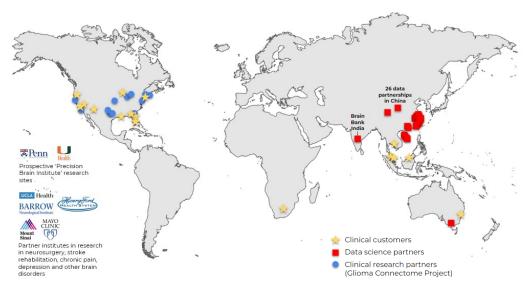
OUR SOLUTION

We developed a platform to share the world's brain knowledge and analytics capabilities, that includes:

- Clinical grade connectomics data pipeline to quickly, efficiently standardize and process brain scans
- Patented, world-first brain mapping approach that highlights abnormal connections in patients with tumors, rehab, dementia, and mental illness
- Quicktome FDA-cleared Personalized, Precision Brain Medicine Software; a cloud-based application for use by neurosurgeons
- World's most advanced repository of brain data global scale machine learning platform for use by third parties to develop and innovate new solutions – over 40 patents issued/pending

OUR APPROACH

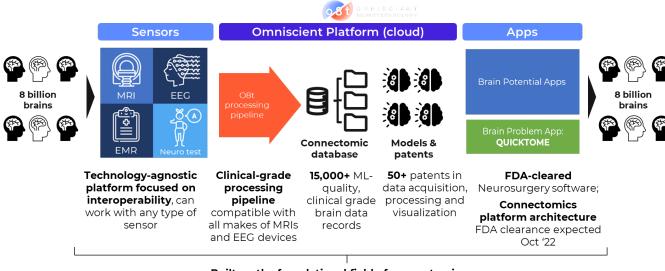
Our partnerships and collaborative research with leading Academic Centers in their respective fields of specialty aim to demonstrate clinical acceptance and influence research in the connectomics field



OUR TECHNOLOGY

We have developed one of the world's most advanced connectomics data processing pipeline and repository of brain data - a global scale machine learning platform for use by our own Precision Brain Medicine Suite of cloud-based applications, and for third parties to develop and innovate new solutions.

Like other omics fields, we can now create an ecosystem of ever-expanding connectomics applications, leveraging our brain data processing pipeline and machine learning models:



Built on the foundational field of connectomics – a standardized methodology to view the brain's networks

Our technology is already transforming medicine's understanding of the brain in prevention to diagnosis and treatment for a range of neurological disorders, from brain tumors to depression.

Our connectomics processing pipeline, data repository and AI capabilities can be deployed across the phases of pharmaceutical drug development:

Drug discovery & preclinical phase



Harmonization of quality neuroinformatic data, at scale to generate novel predictive biomarkers



Use of connectomics to match drug compounds with neuropathology

Clinical trials stage



Identification and stratification of eligible patient groups



Improved endpoints leveraging connectomics outcomes to enhance trial evaluation



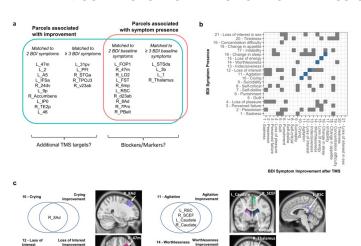
Trial data re-analysis

Market access



Companion connectomicsbased diagnostics to expand target population

EXAMPLE: CONNECTOMIC APPROACH TO DEPRESSION



Data summary:

Research partner

Subject types Depression (39)

Imaging data Anatomical, functional, DWI

Demographics Age, sex, handedness, comorbidities

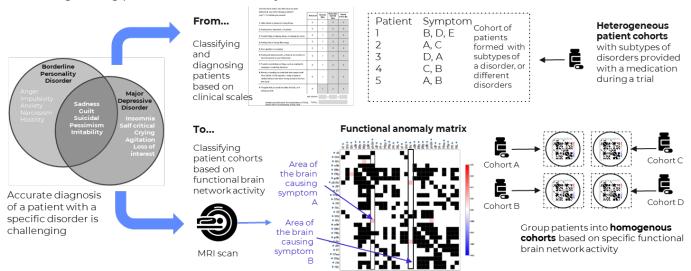
Clinical scale BDI, MADRS, HDRS

Intervention TMS

Parcels of the human connectome were matched to items of the Beck's
Depression Inventory as predictors of response to rTMS. Potential treatment targets and biomarkers were attributed based on the findings of the study.

EXAMPLE: IDENTIFICATION AND STRATIFICATION OF ELIGIBLE PATIENT GROUPS

Patient stratification based on similarities in functional brain network activity can enable improved trial design using personalised brain analytics:



LITERATURE ON PHARMACOLOGY AND THE CONNECTOME

O8t is conducting further research and developing solutions for therapeutics in additional clinical areas on the back of a growing field of research:

A Unique Brain Connectome Fingerprint Predates and Predicts Response to Antidepressants

Differential effect of quetiapine and lithium on functional connectivity of the striatum in first episode mania

<u>Dopaminergic modulation of hemodynamic signal variability and the functional connectome during cognitive performance</u>

<u>Fine-Grained Parcellation of Brain Connectivity Improves Differentiation of States of Consciousness During</u>
<u>Graded Propofol Sedation</u>