

Drug Target & Biomarker Discovery



Mapping Disease Driver Genes and Pathways

We have assembled disease-specific datasets to understand the genetic and biological drivers of disease.

- Pseudonymized data
- Multi-omics approach
- Harmonized phenotypes
- Longitudinal data, curated by disease specialists
- Homogeneous populations
- Matched controls

Therapeutic Areas

- Liver Disease
- Cardiovascular
- Neurology & Pain
- Diabetes & Complications
- Respiratory
- Immunology & Rheumatology
- Dermatology
- Ophthalmology
- Oncology

Looking for a specific disease dataset? Ask us



Work together with
in-house experts



Leverage a suite of
genomic technologies



Partner with responsible
data stewards



Multiple Sclerosis (MS) Drug Target and Biomarker Discovery



To discover novel drug targets and/or severity biomarkers for Multiple Sclerosis, researchers need access to the most complete dataset available. We have curated one of the largest MS datasets, enriched with progressive MS, comprised of Whole Genome Sequence and detailed longitudinal clinical data of several thousand participants.

Disease Subtypes Dataset

Compare primary progressive MS (PPMS), secondary progressive MS (SPMS), or both with participants who have had longstanding relapsing-remitting MS (RRMS) for at least 10-15 years.



PPMS
Participants



SPMS
Participants



RRMS
Participants



3X
Population
Controls

Longitudinal Disease Characterization

Omic Analysis

Whole Genome Sequencing
(incl. CNV and indels)
RNASeq
(available for a subset)



Disease Features

- MS subtypes
- Age of onset by symptoms and diagnosis
- Disease duration by symptom and diagnosis
- Longitudinal EDSS disability scores
- MSSS and ARMSSS severity scores
- Neurological deficits history
- Treatment history and response
- MRI findings
- Demographics

Analytics Platform

Our self-service analytics platform solves the challenges of big genomic data so you can maximize your target discovery and validation.

Managed Cloud Environment	Data Lake Management	Cohort Analytics	Workspaces	Professional Services
<ul style="list-style-type: none"> Infrastructure and storage management Software stack and updates Security and monitoring 	<ul style="list-style-type: none"> Onboarding longitudinal genomic sequence and variant data and phenotypes Versioned reference datasets and summary statistics 	<ul style="list-style-type: none"> Case-control definition Association studies at SNP and gene level Extensive functional and public GWAS annotation 	<ul style="list-style-type: none"> Desktop application Notebook portal API 	<ul style="list-style-type: none"> Specialized customer support services Ongoing training