NIAGADS
The National Institute on Aging Genetics of Alzheimer's Disease Data Storage Site

NIAGADS—A Resource in AD Research

The NIA Genetics of Alzheimer's Disease Data Storage Site (http://www.niagads.org) is a national repository that facilitates access to genetic, genomic, and related data to qualified investigators for the study of Alzheimer's disease (AD). It is funded by the National Institute on Aging (NIA) under a cooperative agreement (U24 AG0416890; PI: Li-San Wang, Ph.D.) between NIA and University of Pennsylvania Perelman School of Medicine. NIAGADS's mission is to enable rapid data sharing and speedy identification of new pathways for therapeutic approaches and prevention of the disease. All genetic and related data derived from NIA-funded studies for late-onset AD (LOAD) are deposited at NIAGADS, another NIA-approved site, or both. NIAGADS makes genetic, genomic, and phenotypic data relevant to genetic analysis such as clinical and neuropathology data elements available to qualified investigators for secondary analysis. In turn, secondary analysis data are provided back to NIAGADS.

ADSP Website Live

The NIA Genetics of Alzheimer's Disease Data Storage Site (NIAGADS) provides access to genotypic and phenotypic data for the ADSP, as well as secondary analysis data, and data from NIA funded genetic and genomic studies. Additional phenotype data for ADSP will become available as the project progresses. An ADSP website with information on study design and data access has been developed by the NIAGADS team and can be found at http://www.niagads.org/adsp.

ADSP Data Portal

The focal point of the ADSP website is the data portal (https://www.niagads.org/adsp/portal/). The data portal is a fully customized web interface that allows projects additional flexibility using the dbGaP infrastructure. Requests for ADSP data should be submitted through dbGaP. Further information on accessing ADSP data can be found on dbGaP by searching the ADSP dataset ID **phs000572.v1.p1** or at the ADSP website at https://www.niagads.org/adsp/content/instructions-application. Questions regarding ADSP data access or the project in general should be sent to adsp-help@niagads.org.

Other Resources from NIAGADS

DRAW+SneakPeek is a resource developed by NIAGADS to support next generation sequencing analysis. The software is a workflow that takes data from sequencing machines, processes the individual data, and returns annotated variant calls. It includes a database with a web interface to present the results and statistics in an informative and easy to use format. More information about DRAW+SneakPeek can be found at https://www.niagads.org/content/dna-seq.

The **NIAGADS Genomics Database** was designed to allow users to browse published AD results in a graphical format. The NIAGADS Genomics Database can be found at https://www.niagads.org/genomics/. Users can search based on SNP data, candidate genes and annotations, and genomic loci. The database uses GUS4, a new version of the database optimized for high throughput sequence data and capturing experimental metadata, as well as JBrowse, the replacement for the GMOD genome browser, GBrowse. Additional datasets will be added to the database as they are received.