## **ADSP Sample Providers**

You may request access to sequencing data on your own subjects through dbGaP using a special, expedited process. Complete instructions are found on the <u>ADSP website</u>. Contact Rebecca Cweibel <a href="mailto:rcweibel@mail.med.upenn.edu">rcweibel@mail.med.upenn.edu</a> with questions about submitting a request.

## **New Datasets Available**

NG00047: Indianapolis African American GWAS

The African American participants that were included in this study (173 cases, 1002 controls) were part of the community-based longitudinal comparative epidemiological study of African Americans in Indianapolis, and Yoruba Nigerians living in the city of Ibadan.

NG00048: <u>ADGC Age at Onset Summary</u> Statistics

A study to investigate the effects of known Alzheimer disease risk loci in modifying age-at-onset, and to estimate their cumulative effect on age-at-onset variation, using data from genome-wide association studies in the Alzheimer's Disease Genetics Consortium (ADGC). Available in this dataset are the summary statistics described in Naj et al.

NG00049: CSF Summary Statistics

Summary statistics of genome-wide association study for established biomarkers (Cerebrospinal fluid (CSF) tau, tau phosphorylated at threonine 181 (ptau), and A $\beta_{42}$ ) for Alzhemier's disease. This is the largest genome-wide association study for cerebrospinal fluid (CSF) tau/ptau levels published to date (n= 1,269). Imputed data consists of 5,815,690 SNPS using HapMap release 22 CEU (build 36) as a reference panel.

NG00050: <u>GWAS of CLU, A potential</u> endophenotype for Alzheimer's disease

Genome wide association study to understand the role of Clusterin (CLU - Endophenotype for AD) in Alzheimer's Disease. Imputed data consists of 6,015,512 SNPS using 1000 Genomes data (June 2011 release) CEU (build 37) as a reference. This study involves 673 individuals (400 ADRC, 273 ADNI). We provide access to 400 ADRC subjects, remaining data for 273 ADNI subjects can be obtained at adni.loni.usc.edu.

NG00052: <u>CLU, A potential endophenotype for</u> <u>AD: Summary Statistics</u>

Summary statistics of genome-wide association to understand the role of Clusterin (CLU - Endophenotype for AD) in Alzheimer's Disease. GWAS data can be accessed at NG00050.

NG00053: <u>IGAP Summary Statistics</u>, <u>ADGC</u> <u>subset</u>

The International Genomics of Alzheimer's Project (IGAP) released summary results data from the 2013 meta-analysis of Genome-wide Association data in Alzheimer's disease. The summary results available in this dataset are from the Alzheimer's Disease Genetics Consortium (ADGC) only.

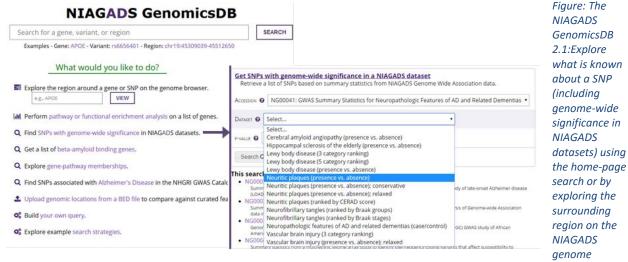
## NIAGADS GenomicsDB 2.1 is now available

An enhanced version (2.0) of the NIAGADS GenomicsDB was released to the public in April 2016. Improvements to the site included a new, intuitive search interface and improved presentation of gene and SNP information that together make it easier to identify AD-relevant variants. Other new features, such as pathway and Gene Ontology (GO)-based functional enrichment analyses and co-location searches allow users to upload, mine, and integrate their own datasets with search results.

With a mini-release (2.1) in September 2016, the GenomicsDB now provides a web-resource that allows users to search or browse 35 publicly available NIAGADS GWAS summary statistics datasets, including the following new additions:

- NG00040: summary statistics from a multi-ethnic exome array study to identify low-frequency
  coding variants that affect susceptibility to Alzheimer's disease (AD), frontotemporal dementia (FTD),
  and progressive supranuclear palsy (PSP)
- **NG00041**: summary statistics from a GWAS study of known genetic risk loci for Alzheimer's disease and related dementias using neuropathologic data from 4,914 brain autopsies.
- **NG00045**: summary statistics from a two-stage analysis for identifying risk for progressive supranuclear palsy (PSP)
- NG00048: summary statistics from a study investigating the effects of known Alzheimer disease risk
  loci in modifying age-at-onset and estimating their cumulative effect on age-at-onset variation, using
  data from genome-wide association studies in the Alzheimer's Disease Genetics Consortium (ADGC).
- NG00049: summary statistics from a GWAS study for established Cerebrospinal fluid (CSF) biomarkers for Alzheimer's disease

In addition, added functional genomics datasets from ENCODE and FANTOM5 for selected brain-relevant tissues can be searched directly or compared to the summary statistics datasets.



browser. Alternatively, use the search-strategies interface to find all genes with genome-wide significance for AD or related neuropathologies.