

August 2014

UDS Subject Blood Initiative

Thank you to all of the Centers who are sending in ADC subject **blood** samples! Though the reimbursement phase of the ADGC initiative ended March 14, 2014, NCRAD continues to accept samples from all UDS subjects.

Center	Blood samples received on UDS list*
Arizona	268
Boston U	27
Emory	50
Johns Hopkins	58
Mass ADRC	53
Mt Sinai	409
New York	325
Northwestern	34
Oregon	60
U California, Irvine	400
U California, San Diego	159
U California, San Francisco	214
U Kentucky	234
U Michigan	25
U of Kansas	1
U Pennsylvania	81
U Pittsburgh	328
U Southern California	116
U Washington	1
Washington U	1,269
Total	4,112

*Counts of total subjects with a **blood** sample at NCRAD matching to NACC Phase 1 or Phase 2 lists as of 8/5/2014. These numbers are likely higher than blood sample totals listed on the NACC report. This is because the NACC report counts subjects one time based on the first sample source received.

While NCRAD is not able to provide monetary compensation, we will cover the cost of shipping. When sending blood, NCRAD will provide a blood kit and return 25ug of DNA for free upon request. In addition, APOE genotyping will be done on all samples submitted. Please continue to send samples for this very valuable project!

Replenishing Samples

Because samples provided by the ADCs have been widely used for genetic studies, NCRAD has depleted or nearly depleted many of our stocks. In order to continue to provide ADC samples for additional projects, it is vital for NCRAD to obtain additional DNA for many subjects. NCRAD will accept blood samples for subjects that have previously had a DNA aliquot transferred. By providing a blood sample, NCRAD will have enough DNA to ensure that we can use the sample for many future projects.

APOE Data Posted

As part of NCRAD's continuing effort to provide APOE data on all ADC samples provided to NCRAD, we have posted genotypes for over 2,500 subjects this month. To obtain this data please visit the NACC site: <https://www.alz.washington.edu/adgc.html>, select your Center and choose the first option to download APOE data from NCRAD. Some of these are new genotypes and others are there to resolve past discrepancies. Please compare any internal APOE genotype data you have done to posted genotypes. Please notify Kelley Faber (kelfaber@iu.edu) if you have any questions or find any discrepancies. We want to work with you in order to resolve these.

Key for APOE results on NACC site:

1=e3,e3	4=e4,e4	
2=e3,e4	5=e4,e2	9=missing/unknown/ not assessed
3=e3,e2	6=e2,e2	

A Central Repository with DNA available to match the rich dataset collected for all subjects seen in the ADCs is a very valuable resource for the field of AD research. We hope you will continue to support this effort!

Please contact us with any questions or concerns about NCRAD at 800-526-2839/317-274-7360, by email at kelfaber@iu.edu or visit our web-site: www.ncrad.org Thanks!!

New Look of NIAGADS

The NIAGADS (NIA Genetics of Alzheimer's Disease Data Storage Site) website has been overhauled to enhance the user experience. NIAGADS is a national repository that facilitates access to genetic, genomic, and related data to qualified investigators for the study of Alzheimer's disease (AD).

<https://www.niagads.org>

Third Batch of ADSP Data Coming Soon!

The third ADSP data release is anticipated for October and will contain whole exome sequence data from ~11,000 additional subjects. Approved investigators can browse and download available data through the [ADSP Data Portal](#) or through the [dbGaP Study page](#).

<https://www.niagads.org/adsp>

Most Recent Datasets Added to NIAGADS

NG00035

- "GWAS of cerebrospinal fluid tau levels identifies risk variants for Alzheimer's disease"
- Largest GWAS for 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.
- www.niagads.org/dataset/ng00035

NG00034

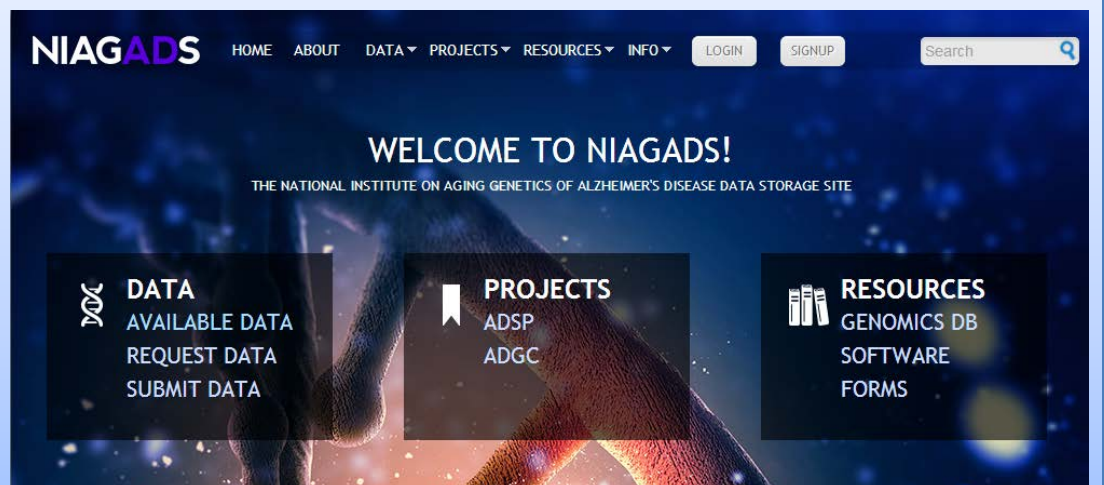
- ACT AND GENETIC DIFFERENCES GWAS
- The Adult Changes in Thought (ACT) study is a longitudinal prospective cohort study and the Genetic Differences study was an epidemiologic case control study.
- www.niagads.org/dataset/ng00034

NG00033

- IDENTIFYING RARE VARIANTS THAT INCREASE RISK FOR ALZHEIMER'S DISEASE
- Exome sequencing data for families with Late-Onset AD.
- www.niagads.org/dataset/ng00033

Request Access to NIAGADS Data

To access NIAGADS data, please submit a new account request through the [NIAGADS website](#). If you would like further information about data available at NIAGADS or how to submit your own data to NIAGADS, contact support@niagads.org.

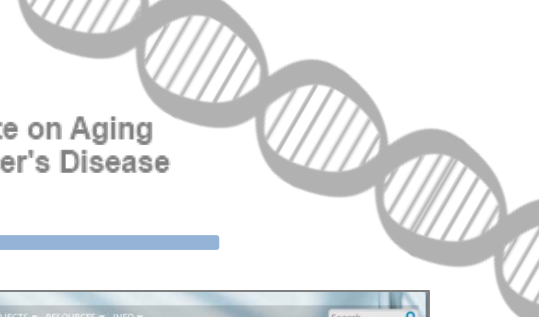


NIAGADS HOME ABOUT DATA PROJECTS RESOURCES INFO LOGIN SIGNUP Search

WELCOME TO NIAGADS!

THE NATIONAL INSTITUTE ON AGING GENETICS OF ALZHEIMER'S DISEASE DATA STORAGE SITE

- DATA**
AVAILABLE DATA
REQUEST DATA
SUBMIT DATA
- PROJECTS**
ADSP
ADGC
- RESOURCES**
GENOMICS DB
SOFTWARE
FORMS



NIAGADS Genomics Database

The NIAGADS Genomics Database provides a simple, but powerful, workspace for searching and identifying genes, SNPs, and genomics locations of interest or with special relevance to Alzheimer's Disease. New AD risk variants identified in a meta-analysis of 74,046 individuals can now be viewed on the genome browser via www.niagads.org/genomics/track_highlights.jsp. See www.niagads.org/genomics/track_listing.jsp for newly added functional genomic tracks, e.g. FANTOM5, GWAS catalog. Users can now find genes based on KEGG pathway. Register with NIAGADS to bookmark favorite search results or save and share search results and workflows (strategies).

<https://www.niagads.org/genomics/>

NIAGADS HOME ABOUT DATA PROJECTS RESOURCES INFO

GENOMICS HOME NEW SEARCH GENOME BROWSER MY STRATEGIES MY FAVORITES ABOUT NIAGADS GENOMICS

Search for: Find Genes, SNPs, and genomic loci by identifiers or GO annotation.

My Strategies: New Opened (1) All (2)

(Genes) Strategy: AD GWAS

AD GWAS 43 SNPs Step 1 → SNPs→Genes 5 Genes Step 2 Add Step

Strategy: AD GWAS Download 5 Genes

Step 2: 5 Genes

Gene Results

To view additional details (e.g., annotation, external links, search weights) about your search results, click on the **Add Columns** button below. Rows can be sorted using the up/down arrows associated with column headers; columns can be moved by clicking and dragging the header. To view additional information on the data reported in a column, mouseover column headers.

Symbol	SNP	Genomic Coordinates
BCAM	rs2927477	chr19:45312316-45324678
BCL3	rs8100239	chr19:45251978-45263301
EIF5AP3	rs17643262	chr19:45631783-45632340
PPP1R37	rs17643262; rs1114831; rs1114832; rs1048699	chr19:45596431-45595043
PVRL2	rs6859; rs416041; rs440277; rs12610605; rs12978931; rs11673139; rs4803763; rs377702; rs387976; rs187...	chr19:45349393-45392485

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Search for: Find Genes, SNPs, and genomic loci by identifiers or GO annotation.

Click and drag the bottom border to expand or contract the genome browser view frame.

dbSNP137 SnpEff Effect High Moderate Low Other

NIAGADS JBrowse File View Help

chr11:85657401-85784400 (127 Kb)

Select tracks: SLC25A1P1

NCBI Gene database: NM_001206946.1, NM_001206947.1, RefSeq:007166.3

AD GWAS Naj NatGen 2011 stage 1+2 adjusted

ENCODE Chromatin NH-A H3K9ac

ENCODE Chromatin NH-A H3K4me3

ENCODE Chromatin NH-A H3K4me2

NHGRI GWAS catalog: rs17817600

For questions or information, please contact NIAGADS at (215) 898-9702 or through email at support@niagads.org. NIAGADS (<http://www.NIAGADS.org>) is a cooperative agreement between University of Pennsylvania and NIA.