



# NCRAD

January 2019

## Introduction

NCRAD would like to introduce our new coordinator that is working with the Centers, Kaci Lacy. You may be receiving emails from Kaci and/or Kelley in the future. Kaci's email address is: [lacy@iu.edu](mailto:lacy@iu.edu) if you'd like to contact her directly.

## Annual Sample Distribution Reports

It is time again for NCRAD's annual Sample Distribution Reports. This is sent out every January to the Center Director. Please contact Kaci Lacy ([lacy@iu.edu](mailto:lacy@iu.edu)) if you would like a copy sent directly to others as well. This report is intended to assist your Center in demonstrating your contribution to central sample banking efforts encouraged by NIA.

The report summarizes the number of samples provided by your site as part of initiatives banking samples at NCRAD. For example, a Center could be sending samples as part of the ADGC, ADNI, and LOAD initiatives. Please note that the number of samples provided on the report is a count of unique individuals within a study. Some studies are collecting longitudinal samples or multiple types of samples and these are not distinguished.

The annual report also summarizes how frequently samples contributed by your site are requested by researchers. The report shows the total number of samples contributed by your site that were ever distributed to researchers as well as the number that were distributed in the past year. This is a total count and is not restricted to unique subjects. Samples from the same subject may be requested by more than one investigator.

This count does not reflect the samples that were returned to the contributing site as their one free aliquot.

Our summary report also provides the number of unique investigators that have requested samples contributed by your Center. We provide this information for the past year and also in a cumulative form across all years. Finally, all NIH grants that were supported by the samples contributed by your site are listed.

## Annual ADC Conference Calls

We appreciate the opportunity to review progress and discuss new initiatives with ADCs during our annual conference call. It is time to schedule our spring calls with all Centers. Kaci has begun to contact Centers to schedule a call for February, March, or April. We look forward to speaking with you soon!

## ADC Biomarker Supplement

Thank you to all of the Centers that responded to our recent survey and expressed interest in participating in the new ADC biomarker initiative. This effort will eventually involve the standardized, central banking of biomarker samples from all Centers. This includes plasma, serum, DNA, RNA and PBMCs (peripheral blood mononuclear cells).

Our supplement is currently pending review and we hope to receive approval next month. Once we know the outcome of the review, NCRAD will reach out to all interested Centers. We hope to be working together on this exciting new initiative!

**A Central Repository with samples 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, by email at [alzstudy@iu.edu](mailto:alzstudy@iu.edu) or visit our web-site: [www.ncrad.org](http://www.ncrad.org). Thanks!!

## Additional ADSP Data Released

We are pleased to announce a new data release on the NIAGADS Data Sharing Service (DSS). The NIAGADS DSS currently hosts ADSP Discovery+ Extension whole genome data from 854 subjects in 159 families and an additional 1433 cases and 1654 controls as well as 809 whole genomes from ADNI-WGS-1. Additional data has been released that includes the ADSP quality control checked GATK joint called VCF containing all 4789 whole genomes. More detailed information can be found on the [DSS ADSP Umbrella Page](#).

## NIAGADS Genomics Database v 3.3 Now Available

NIAGADS is pleased to announce that the Genomics Database v. 3.3 has been released. It includes three new datasets:

### **NG00065 (ADSP Case/Control):**

Gene level evidence for Alzheimer's Disease from the ADSP Case/Control Work Group is now available.

### **NG00061 (Functional Annotation of genomic variants in studies of LOAD):**

ADSP Discovery Phase whole genome and whole exome sequenced single nucleotide variants are now available. ExAC allele frequencies, CADD deleteriousness scores, and CATO transcription factor binding overlap variant annotations have also been added.

### **NG00052 (CLU, A potential endophenotype for AD):**

GWAS summary statistics are now available.

NIAGADS is looking forward to user feedback and encourages those with comments or questions to email [genomicsdb@penncmedicine.upenn.edu](mailto:genomicsdb@penncmedicine.upenn.edu).

The Genomics Database can be found [here](#).

## New Datasets available at <https://www.niagads.org/datasets>

NIAGADS has added a number of new datasets, bringing the total number of datasets in NIAGADS to 45, with over 45,000 samples and 30 billion genotypes.

### **NG00062**

Episodic Memory Trajectories (EMTs) of 13,037 elderly

### **NG00065**

ADSP Discovery Case/Control Association Results

### **NG00068**

ADC4 – Alzheimer Disease Center Dataset 4

### **NG00069**

ADC5 – Alzheimer Disease Center Dataset 5

### **NG00070**

ADC6 – Alzheimer Disease Center Dataset 6

### **NG00071**

ADC7 – Alzheimer Disease Center Dataset 7

### **NG00072**

NLTCS (The National Long Term Care Survey) SNP DATA I

### **NG00073**

Genome-wide summary statistics for cognitively defined late-onset Alzheimer's disease subgroups

### **NG00076**

ADGC case-control summary statistics on 7050 samples not included in the IGAP-2013 discovery stage