

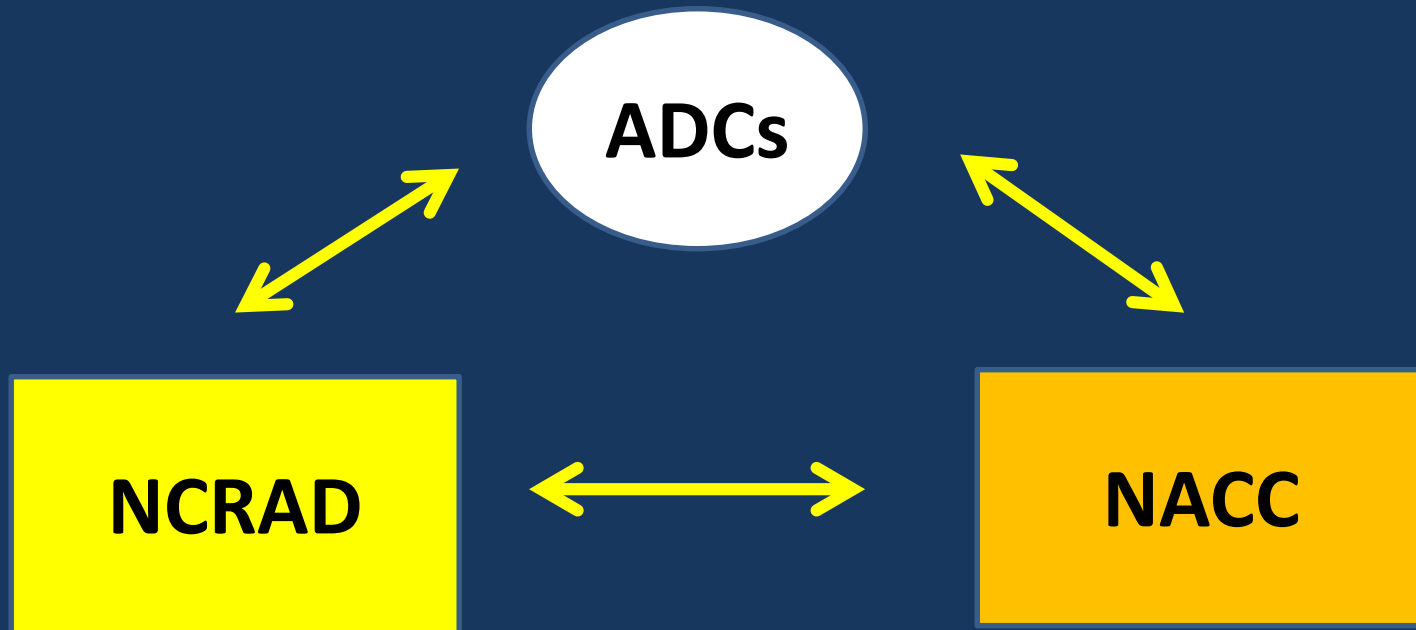
National Cell Repository for Alzheimer Disease (NCRAD)

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NCRAD and NACC goal

For EVERYONE seen at an ADC, store uniform phenotypic data and a DNA sample



Samples from 21,415 ADC subjects at NCRAD

Data from Samples at NCRAD

- NCRAD continues to *APOE genotype* and return data for all ADC samples submitted
 - Genotypes for over 2,500 samples posted in August
- *GWAS* data from some subjects
 - Posted as plink files
 - Planning to offer excel format of genotypes for confirmed SNP associations
- *Sequencing* (WES, WG)
 - Coming soon....

ADGC GWAS Data

See www.niagads.org/adgc for more information

Or just contact NIAGADS data@niagads.org

- 13 datasets available at NIAGADS
 - GWAS data / Phenotype / Imputation*
 - Naj et al. Nature Genetics 2011 Summary Statistics*
- IGAP (Lambert et al. Nature Genetics 2013)
 - go.nature.com/tumaG2 has the following URL to data access

http://www.pasteur-lille.fr/en/recherche/u744/igap_stage1.zip

NCRAD Survey

- NCRAD preparing for competitive renewal in 2015
- Survey to users and non-users to seek input
- Have received responses from ~70 individuals to date
 - Gathering useful information for future directions including additional disease types, minority populations etc.

<https://redcap.uits.iu.edu/survey/?s=h5AKCziYRz>

Alzheimer Disease Sequencing Project (ADSP)

Discovery Phase

Whole Genome
Sequencing (WGS)
578 individuals from 111 families

Whole Exome
Sequencing (WES)
10,939 individuals
5,963 cases; 4,976 controls

Replication Phase

Targeted Sequencing
50,000 individuals
~25,000 cases; 25,000 controls

Further Follow-up with
the ADGC

ADSP Replication Phase

- How to find 50,000 samples?
 - Samples used in WES may be reused
 - New samples sent in
 - ADC MDS lists
- ADSP Replication Working Group
 - Co-Chairs:
 - Tatiana Foroud – ADC cohorts
 - Richard Mayeux – minority cohorts
 - Sudha Seshadri – epidemiological cohorts (US and Europe)

ADSP Replication Phase

- UDS subjects
 - Continuing to select subjects from this list
- MDS lists
 - NACC provided lists to each ADC
 - Includes individuals reported to have DNA but not on previous NACC-generated lists
 - Sites asked to help identify how many cases/controls with at least 5ug of DNA

ADSP Replication Phase Timeline

Site Sample Counts

- Sites send NCRAD/NACC MDS numbers

NCRAD Sends Lists

- NCRAD provides sites with a list of samples to send for replication

Oct 2014

Nov 2014

Jan 2015

Jan – Apr 2015

Site Informed Consents

- Sites send NIAGADS informed consents for review

Sites Ship Samples

- Sites ship approved samples to NCRAD & receive reimbursement

ADSP Whole Exome Sequencing Data

See www.niagads.org/adsp for more information

Or just contact NIAGADS data@niagads.org

Apply for data
access



Download data



Convert ADSP
ID to patient ID

A NACC/NCRAD/
ADGC/NIAGADS
Collaboration!

- ~10,939 subjects, 3,270 are ADC samples
 - BAM (*raw sequences*) end of October
 - VCF (*SNPs and indels*) at later date
- **Apply for access now!** Contact NIAGADS for help
- **ADSPID to ADC PatientID mapping** via NACC for each center