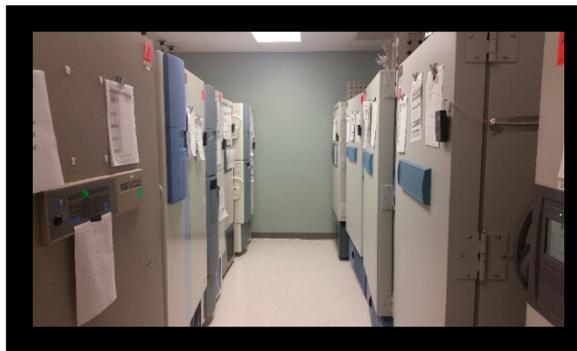


NCRAD update: How can I find NCRAD samples linked to NACC data?

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Focus of this Presentation

- What does NCRAD have and how do I find it?
- Describe how to search for ADC participants meeting particular criteria with DNA samples
 - NCRAD or NACC query
- Summarize other samples at NCRAD
 - From the ADCs
 - From other studies
- New initiatives to broaden available samples from ADC participants
- Open discussion

Navigating to the NCRAD Catalogs

Accessing Biospecimens and Data

In order to ensure that researchers have the most accurate information, the National Cell Repository for Alzheimer's Disease (NCRAD) is continually updated with new information. At the time data is requested, NCRAD will provide the researcher with the most current information. Therefore, NCRAD encourages all researchers to request an updated set of variables prior to publication and implementation of analyses involving samples acquired from the Repository. While every effort is made to verify all data and information, NCRAD cannot be responsible for any errors or omissions in the distributed data.

| Cohort | Population | Genomic DNA | Cell Line DNA | RNA | Plasma | Serum | LCLs | PBMCs | CSF |
|---------------------|--|-------------|---------------|-----|--------|-------|------|-------|-----|
| ADNI | AD Cases, Controls, MCI | ✓ | ✓ | ✓ | | | ✓ | | |
| AA Genetics | AD Cases, Controls | | ✓ | | | | ✓ | | |
| ADCs | AD and other dementia cases, Controls, MCI | ✓ | ✓ | | | | | ✓ | |
| DIAN | Early Onset AD Families with known mutations | | ✓ | | | | ✓ | | |
| GEMS | Dementia prevention | ✓ | | | ✓ | ✓ | | | |
| GIFT | AD, FTD, Controls | ✓ | ✓ | | | | ✓ | | |
| Indianapolis-Ibadan | Elderly African Americans from Indianapolis, Yoruba living in Ibadan | ✓ | ✓ | | | | ✓ | | |
| NCRAD Family | AD and other dementia families | ✓ | ✓ | | | | ✓ | ✓ | |
| NIA-LOAD | Late Onset AD Families, Controls | ✓ | ✓ | | | | ✓ | | |
| ARTFL | FTLD syndrome cases and healthy family members | ✓ | | ✓ | ✓ | ✓ | | ✓ | ✓ |
| LEFFTDS | FTLD family study with known genetic mutations (symptomatic and asymptomatic family members) | ✓ | | ✓ | ✓ | ✓ | | ✓ | ✓ |

4RTNI-2

ADNI

AA Genetics

ADCs

The Alzheimer's Disease Centers (ADCs) are funded at major medical institutions across the United States. Researchers at these Centers are working to translate research advances into improved diagnosis and care for people with Alzheimer's disease while focusing on the program's long-term goal—finding a way to cure and possibly prevent Alzheimer's.

Study Subjects

Although each center has its own area of emphasis, a common goal of the ADCs is to enhance research on Alzheimer's disease by creating a network that shares new ideas and research results. The clinic-based population includes subjects with Alzheimer's disease and related disorders, as well as cognitively normal subjects and those with MCI.

Available Data

The National Alzheimer's Coordinating Center (NACC) maintains a cumulative database including clinical evaluations, neuropathology data when available, and MRI Imaging. The NACC database comprises several standardized clinical and neuropathology data sets, all of which are freely available to the research community.

Available Biospecimens

Genomic DNA from blood or brain tissue, Cell Line DNA from LCLs, PBMCs from select subjects

Price Structure

Catalog

Request Access to Biospecimens

DIAN

GEMS

GIFT

Indianapolis-Ibadan

NCRAD Family

ADNI

AA Genetics

ADCs

Within the NCRAD website, in the Accessing Biospecimens and Data section, catalogs can be accessed at https://www.ncrad.org/accessing_data.html

Accessing NCRAD Catalogs

- Researchers must complete a web-based Data Agreement to obtain a username and password to the restricted catalogs.

Data Agreement

I request access to data housed at the National Cell Repository for Alzheimer's Disease (NCRAD) for the purpose of scientific investigation, teaching, or the planning of clinical research studies and agree to the following terms:

Section I: Access, Use, and Safeguards

- A. I will receive de-identified data and will not attempt to establish the identity of, or attempt to contact any of the subjects with data in NCRAD.
- B. I will not attempt to identify any specific study sites, unless NCRAD has approved such identification as part of my project's protocol.
- C. I understand that distributing these data to a third party is prohibited, and therefore I will not distribute these data beyond the uses outlined in this agreement. A third party is defined as anyone who is not a collaborator or co-author on the analyses defined in my proposal.
- D. I will require anyone on my team who uses the data, or anyone with whom I share these data, to comply with this Data Agreement.
- E. I will accurately provide the requested information about persons who will use the data and analyses that are planned using these data.
- F. I will comply with any rules and regulations imposed by my institution and its institutional review board in requesting and using these data.
- G. I understand that any data I download may change as new quality assurance measures are implemented and data records are updated.
- H. I will ensure that Investigators who utilize data obtained from NCRAD use appropriate administrative, physical, and technical safeguards to prevent use or disclosure of the data other than as provided for by this Agreement.
- I. I will report any use or disclosure of the data not provided for by this Agreement of which I become aware within 15 days of becoming aware of such use or disclosure.

NCRAD Catalogs

After obtaining a username and password from the NCRAD staff, researchers will be able to log directly into the specimen catalog to review a subset of data.

Welcome to the IIIGR Web Portal

Please Sign In

Username
lacy

Password
.....

Log in

Log in

Trouble signing in? [Click Here](#)

NINDS BioSEND


NCRAD

 **PREDICT-HD**
An observational study of the earliest signs of Huntington disease

NCRAD Catalogs

The catalog system is designed to allow researchers to determine which sample collections best fit their research needs and perform feasibility checks before applying for or requesting the samples. The researcher will have the option to download their selected sample set and include that with their application.

| ADC Catalog | | Dictionary | Join Data | Selection | Download | Help | Tour | Signed in as lacy Logout | |
|---|--------|---------------|-------------------|--------------|----------------|------|------|--------------------------|--|
| Column Filter Search | NACCID | Specimen Type | Specimen Quantity | Quantity UOM | Specimen Count | | | | |
| <input checked="" type="checkbox"/> NACCID | 20527 | NACC031676 | DNA | 5 ug | 154 | | | | |
| <input type="checkbox"/> Sex | 20590 | NACC046061 | DNA | 5 ug | 128 | | | | |
| <input type="checkbox"/> Hispanic | 20589 | NACC468633 | DNA | 5 ug | 222 | | | | |
| <input type="checkbox"/> Race | 20551 | NACC722051 | DNA | 5 ug | 2 | | | | |
| <input type="checkbox"/> Years of Education | 20722 | NACC815678 | DNA | 5 ug | 50 | | | | |
| <input checked="" type="checkbox"/> Specimen Type | 20873 | NACC404251 | DNA | 5 ug | 828 | | | | |
| <input checked="" type="checkbox"/> Specimen Quantity | 20725 | NACC793322 | DNA | 5 ug | 78 | | | | |
| <input checked="" type="checkbox"/> Quantity UOM | 20878 | NACC165757 | DNA | 5 ug | 772 | | | | |
| <input checked="" type="checkbox"/> Specimen Count | 23500 | NACC666455 | DNA | 5 ug | 230 | | | | |
| <input type="checkbox"/> Additional Stock | 23359 | NACC928893 | DNA | 5 ug | 180 | | | | |
| <input type="checkbox"/> Concentration | 23361 | NACC968763 | DNA | 5 ug | 126 | | | | |
| <input type="checkbox"/> Ratio 260-280 | 20881 | NACC394961 | DNA | 5 ug | 298 | | | | |
| <input type="checkbox"/> DNA Source | 23353 | NACC987523 | DNA | 5 ug | 268 | | | | |
| <input type="checkbox"/> Total Visits | 23421 | NACC528063 | DNA | 5 ug | 246 | | | | |
| <input type="checkbox"/> Initial Visit Age | 21409 | NACC835931 | DNA | 5 ug | 52 | | | | |
| <input type="checkbox"/> Initial Global CDR | 21412 | NACC032271 | DNA | 5 ug | 304 | | | | |
| <input type="checkbox"/> Initial UDS Status | 21486 | NACC611039 | DNA | 5 ug | 138 | | | | |
| <input type="checkbox"/> Initial Diagnosis | 20728 | NACC333002 | DNA | 5 ug | 238 | | | | |
| <input type="checkbox"/> DICOM Available | 21603 | NACC148948 | DNA | 5 ug | 8 | | | | |
| <input type="checkbox"/> Last Age | 22202 | NACC843246 | DNA | 5 ug | 802 | | | | |
| <input type="checkbox"/> Decline Age | 23381 | NACC601145 | DNA | 5 ug | 166 | | | | |
| <input type="checkbox"/> Last Global CDR | 23383 | NACC141480 | DNA | 5 ug | 264 | | | | |
| <input type="checkbox"/> Last UDS Status | 24300 | NACC517482 | DNA | 5 ug | 1134 | | | | |
| <input type="checkbox"/> Autopsy Available | 24302 | NACC845177 | DNA | 5 ug | 802 | | | | |
| <input type="checkbox"/> Braak Stage | 21735 | NACC571764 | DNA | 5 ug | 1080 | | | | |
| <input type="checkbox"/> CERAD | 23356 | NACC395904 | DNA | 5 ug | 470 | | | | |
| | 25111 | NACC987468 | DNA | 5 ug | 740 | | | | |
| | 25120 | NACC810748 | DNA | 5 ug | 1444 | | | | |
| | 21424 | NACC377498 | DNA | 5 ug | 874 | | | | |
| | 21440 | NACC017390 | DNA | 5 ug | 344 | | | | |
| | 21456 | NACC007556 | DNA | 5 ug | 186 | | | | |
| | 21457 | NACC547123 | DNA | 5 ug | 380 | | | | |

What is in the NCRAD ADC Catalog?

NACC Fields in NCRAD Limited Data Set

| | |
|-------------------------------------|----------------------------------|
| • NACCID | • DICOM image file available? |
| • Sex | • Global CDR at Last Visit |
| • Ethnicity | • Cognitive Status at Last Visit |
| • Race | • Diagnosis at Last Visit |
| • Years of Education | • Deceased? |
| • Total Visits | • Age at Death |
| • Initial Visit Age | • Autopsy Available |
| • Global CDR at Initial Visit | • Braak Stage |
| • Cognitive Status at Initial Visit | • CERAD Score |
| • Diagnosis at Initial Visit | |

NCRAD Biospecimen Fields

| |
|---------------------|
| • Specimen Type |
| • Specimen Quantity |
| • Quantity UOM |
| • Specimen Count |
| • Additional Stock |
| • Concentration |
| • 260/280 Ratio |
| • DNA Source |
| • Specimen Type |
| • Specimen Quantity |

Filter by Specimen Criteria

Researchers can use the sidebar to filter for the specific samples that meet their request criteria. When the categories on the left are selected, they will appear in the dataset to the right. Variables can be chosen by range of numbers, such as age, or text options, such as baseline diagnosis.

ADC Catalog

Dictionary Join Data Selection Download Help Tour

Column Filter Search

- NACCID
- Sex
- Hispanic
- Race
- Years of Education
- Specimen Type
- Specimen Quantity
- Quantity UOM
- Specimen Count
- Additional Stock
- Concentration
- Ratio 260-280
- DNA Source
- Total Visits
- Initial Visit Age

| | NACCID | Specimen Type | |
|--|--------|---------------|-----|
| | 20527 | NACC031676 | DNA |
| | 20590 | NACC046061 | DNA |
| | 20589 | NACC468633 | DNA |
| | 20551 | NACC722051 | DNA |
| | 20722 | NACC815678 | DNA |
| | 20873 | NACC404251 | DNA |
| | 20725 | NACC793322 | DNA |
| | 20878 | NACC165757 | DNA |
| | 23500 | NACC666455 | DNA |
| | 23359 | NACC928893 | DNA |
| | 23361 | NACC968763 | DNA |
| | 20881 | NACC394961 | DNA |
| | 23353 | NACC987523 | DNA |
| | 23421 | NACC528063 | DNA |
| | 21409 | NACC835931 | DNA |
| | 21412 | NACC032271 | DNA |
| | 21486 | NACC611039 | DNA |
| | 20728 | NACC333002 | DNA |
| | 21603 | NACC148948 | DNA |
| | 22202 | NACC843246 | DNA |
| | 22381 | NACC601145 | DNA |

ADC Catalog

Dictionary Join Data Selection Download Help Tour

Column Filter Search

- NACCID
- Sex
- Hispanic
- Race
- Years of Education
- Specimen Type
- Specimen Quantity
- Quantity UOM
- Specimen Count
- Additional Stock
- Concentration
- Ratio 260-280
- DNA Source
- Total Visits
- Initial Visit Age
- Initial Global CDR

DNA
PBMC

| | NACCID | Specimen Type | |
|--|--------|---------------|-----|
| | 20527 | NACC031676 | DNA |
| | 20590 | NACC046061 | DNA |
| | 20589 | NACC468633 | DNA |
| | 20551 | NACC722051 | DNA |
| | 20722 | NACC815678 | DNA |
| | 20873 | NACC404251 | DNA |
| | 20725 | NACC793322 | DNA |
| | 20878 | NACC165757 | DNA |
| | 23500 | NACC666455 | DNA |
| | 23359 | NACC928893 | DNA |
| | 23361 | NACC968763 | DNA |
| | 20881 | NACC394961 | DNA |
| | 23353 | NACC987523 | DNA |
| | 23421 | NACC528063 | DNA |
| | 21409 | NACC835931 | DNA |
| | 21412 | NACC032271 | DNA |
| | 21486 | NACC611039 | DNA |
| | 20728 | NACC333002 | DNA |
| | 21603 | NACC148948 | DNA |
| | 22202 | NACC843246 | DNA |
| | 22381 | NACC601145 | DNA |

Filters are available as sliders or drop down lists

Sample Selection

Researchers can individually select the samples they want, which highlights the selection in blue. They can also use the selection tool at the top to select all, none, or invert their selection.

By clicking here, selection options appear.

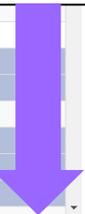


| Column Filter Search | Specimen Type | Specimen Quantity | Quantity UOM | Specimen Count | Last Diagnosis |
|--|---------------|-------------------|--------------|----------------|--|
| <input checked="" type="checkbox"/> NAACID | 20590 | NACC046061 | DNA | 5 ug | 154 Alzheimer's disease (AD) |
| <input checked="" type="checkbox"/> Sex | 20589 | NACC468633 | DNA | 5 ug | 128 Alzheimer's disease (AD) |
| <input checked="" type="checkbox"/> Hispanic | 20551 | NACC722051 | DNA | 5 ug | 222 FTL, other |
| <input checked="" type="checkbox"/> Race | 20722 | NACC815678 | DNA | 5 ug | 2 Alzheimer's disease (AD) |
| <input checked="" type="checkbox"/> Years of Education | 20873 | NACC404251 | DNA | 5 ug | 50 Alzheimer's disease (AD) |
| <input checked="" type="checkbox"/> Specimen Type | 20725 | NACC793322 | DNA | 5 ug | 828 Alzheimer's disease (AD) |
| <input checked="" type="checkbox"/> Specimen Quantity | 20878 | NACC165757 | DNA | 5 ug | 78 Alzheimer's disease (AD) |
| <input checked="" type="checkbox"/> Quantity UOM | 23500 | NACC666455 | DNA | 5 ug | 772 Not applicable, not cognitively impaired |
| <input checked="" type="checkbox"/> Specimen Count | 23359 | NACC928893 | DNA | 5 ug | 230 FTL, other |
| <input type="checkbox"/> Additional Stock | 23361 | NACC968763 | DNA | 5 ug | 180 Not applicable, not cognitively impaired |
| <input type="checkbox"/> Concentration | 20881 | NACC394961 | DNA | 5 ug | 126 Alzheimer's disease (AD) |
| <input type="checkbox"/> Ratio 260-280 | 23353 | NACC987523 | DNA | 5 ug | 298 Vascular brain injury or vascular dementia |
| <input type="checkbox"/> DNA Source | 23421 | NACC528063 | DNA | 5 ug | 268 Alzheimer's disease (AD) |
| <input type="checkbox"/> Total Visits | 21409 | NACC835931 | DNA | 5 ug | 246 Alzheimer's disease (AD) |
| <input type="checkbox"/> Initial Visit Age | 21412 | NACC092271 | DNA | 5 ug | 52 FTL, other |
| <input type="checkbox"/> Initial Global CDR | 21486 | NACC611039 | DNA | 5 ug | 304 Lewy body disease (LBD) |
| <input type="checkbox"/> Initial UDS Status | 20728 | NACC333002 | DNA | 5 ug | 138 Alzheimer's disease (AD) |
| <input type="checkbox"/> Initial Diagnosis | 21603 | NACC148948 | DNA | 5 ug | 238 Alzheimer's disease (AD) |
| <input type="checkbox"/> DICOM Available | 22202 | NACC843246 | DNA | 5 ug | 8 Alzheimer's disease (AD) |
| <input type="checkbox"/> Last Age | 23381 | NACC601145 | DNA | 5 ug | 802 Alzheimer's disease (AD) |
| <input type="checkbox"/> Decline Age | 23383 | NACC141480 | DNA | 5 ug | 166 Alzheimer's disease (AD) |
| <input type="checkbox"/> Last Global CDR | 24300 | NACC517482 | DNA | 5 ug | 264 Not applicable, not cognitively impaired |
| <input type="checkbox"/> Last UDS Status | 24302 | NACC845177 | DNA | 5 ug | 1134 Alzheimer's disease (AD) |
| <input checked="" type="checkbox"/> Last Diagnosis | 21735 | NACC571764 | DNA | 5 ug | 802 FTL, other |
| <input type="checkbox"/> Deceased | 23356 | NACC395904 | DNA | 5 ug | 1080 Missing/unknown |
| <input type="checkbox"/> Age at Death | 25111 | NACC987468 | DNA | 5 ug | 470 Alzheimer's disease (AD) |
| <input type="checkbox"/> Autopsy Available | 25120 | NACC810748 | DNA | 5 ug | 740 Alzheimer's disease (AD) |
| <input type="checkbox"/> Braak Stage | 21424 | NACC377498 | DNA | 5 ug | 1444 Alzheimer's disease (AD) |
| <input type="checkbox"/> CERAD | 21440 | NACC017390 | DNA | 5 ug | 874 FTL, other |
| | 21456 | NACC007556 | DNA | 5 ug | 344 Not applicable, not cognitively impaired |
| | 21457 | NACC547123 | DNA | 5 ug | 186 Not applicable, not cognitively impaired |
| | | | | | 380 Not applicable, not cognitively impaired |

mmgCatalogs v2.1.40 - Catalog Data Generated: 2018-10-18

Displaying 28,147 records (17 Selected)

In the bottom right corner, the catalog will show how many samples are selected and how many samples are displayed.



Download Selection

Researchers will have the option to download the entire dataset, just the filtered specimens, or their selected specimens. An excel file will download to the desktop.



By clicking here,
download options
appear.

| ADC Catalog | | Dictionary | Join Data | Selection | Download | Signed in as lacy Logout | |
|---|--------|---------------|-------------------|--------------|----------------|--------------------------|---|
| Column Filter Search | NACCID | Specimen Type | Specimen Quantity | Quantity UOM | Specimen Count | Last Diagnosis | |
| <input checked="" type="checkbox"/> NACCID | 20527 | NACC031676 | DNA | 5 | ug | 154 | Alzheimer's disease (AD) |
| <input type="checkbox"/> Sex | 20590 | NACC046061 | DNA | 5 | ug | 128 | Alzheimer's disease (AD) |
| <input type="checkbox"/> Hispanic | 20589 | NACC468633 | DNA | 5 | ug | 222 | FTLD, other |
| <input type="checkbox"/> Race | 20551 | NACC722051 | DNA | 5 | ug | 2 | Alzheimer's disease (AD) |
| <input type="checkbox"/> Years of Education | 20722 | NACC815678 | DNA | 5 | ug | 50 | Alzheimer's disease (AD) |
| <input checked="" type="checkbox"/> Specimen Type | 20873 | NACC404251 | DNA | 5 | ug | 828 | Alzheimer's disease (AD) |
| <input checked="" type="checkbox"/> Specimen Quantity | 20725 | NACC793322 | DNA | 5 | ug | 78 | Alzheimer's disease (AD) |
| <input checked="" type="checkbox"/> Quantity UOM | 20878 | NACC165757 | DNA | 5 | ug | 772 | Not applicable, not cognitively impaired |
| <input checked="" type="checkbox"/> Specimen Count | 23500 | NACC666455 | DNA | 5 | ug | 230 | FTLD, other |
| <input type="checkbox"/> Additional Stock | 23359 | NACC928893 | DNA | 5 | ug | 180 | Not applicable, not cognitively impaired |
| <input type="checkbox"/> Concentration | 23361 | NACC968763 | DNA | 5 | ug | 126 | Alzheimer's disease (AD) |
| <input type="checkbox"/> Ratio 260-280 | 20881 | NACC394961 | DNA | 5 | ug | 298 | Vascular brain injury or vascular dementia including stroke |
| <input type="checkbox"/> DNA Source | 23353 | NACC987523 | DNA | 5 | ug | 268 | Alzheimer's disease (AD) |
| <input type="checkbox"/> Total Visits | 23421 | NACC528063 | DNA | 5 | ug | 246 | Alzheimer's disease (AD) |
| <input type="checkbox"/> Initial Visit Age | 21409 | NACC835931 | DNA | 5 | ug | 52 | FTLD, other |
| <input type="checkbox"/> Initial Global CDR | 21412 | NACC032271 | DNA | 5 | ug | 304 | Lewy body disease (LbD) |
| <input type="checkbox"/> Initial UDS Status | 21486 | NACC611039 | DNA | 5 | ug | 138 | Alzheimer's disease (AD) |
| <input type="checkbox"/> Initial Diagnosis | 20728 | NACC333002 | DNA | 5 | ug | 238 | Alzheimer's disease (AD) |
| <input type="checkbox"/> DICOM Available | 21603 | NACC148948 | DNA | 5 | ug | 8 | Alzheimer's disease (AD) |
| <input type="checkbox"/> Last Age | 22202 | NACC843246 | DNA | 5 | ug | 802 | Alzheimer's disease (AD) |
| <input type="checkbox"/> Decline Age | 23381 | NACC601145 | DNA | 5 | ug | 166 | Alzheimer's disease (AD) |
| <input type="checkbox"/> Last Global CDR | 23383 | NACC141480 | DNA | 5 | ug | 264 | Not applicable, not cognitively impaired |
| <input type="checkbox"/> Last UDS Status | 24300 | NACC517482 | DNA | 5 | ug | 1134 | Alzheimer's disease (AD) |
| <input checked="" type="checkbox"/> Last Diagnosis | 24302 | NACC845177 | DNA | 5 | ug | 802 | FTLD, other |
| <input type="checkbox"/> Deceased | 21735 | NACC571764 | DNA | 5 | ug | 1080 | Missing/unknown |
| <input type="checkbox"/> Age at Death | 23356 | NACC395904 | DNA | 5 | ug | 470 | Alzheimer's disease (AD) |
| <input type="checkbox"/> Autopsy Available | 25111 | NACC987468 | DNA | 5 | ug | 740 | Alzheimer's disease (AD) |
| <input type="checkbox"/> Braak Stage | 25120 | NACC810748 | DNA | 5 | ug | 1444 | Alzheimer's disease (AD) |
| <input type="checkbox"/> CERAD | 21424 | NACC377498 | DNA | 5 | ug | 874 | FTLD, other |
| | 21440 | NACC017390 | DNA | 5 | ug | 344 | Not applicable, not cognitively impaired |
| | 21456 | NACC007556 | DNA | 5 | ug | 186 | Not applicable, not cognitively impaired |
| | 21457 | NACC547123 | DNA | 5 | ug | 380 | Not applicable, not cognitively impaired |

Help and Tour

The “Help” tab walks researchers through the catalog sections such as the toolbar and sidebar. It explains in detail how to filter, join data, and download files.

The “Tour” tab walks researchers through the dataset step by step, such as explaining how to filter for specimen criteria or how to join data.

The screenshot shows the ADC Catalog application with the Help window open. The Help window is titled "IUGB Catalog System" and contains the following text:

Welcome to the IUGB Biospecimen Cataloging System. Use this catalog to identify available biospecimens. You may use the tabs at the top of this window to read more detailed help about specific sections of the catalog or click the button in the toolbar labeled "Tour".

Clicking the button will open the catalog tour:

Welcome
Please take a short tour to familiarize yourself with the application

Click "Next" to step through explanations of all the functionality of the catalog. You may click "End Tour" at any time to end the tour and start using the catalog.

Catalog Sections
There are four main sections of the application: the toolbar, the side bar, the catalog, and the footer. Each section is explained below.

The background shows the ADC Catalog interface with a sidebar on the left containing various filters like NACCID, Sex, Race, Years of Education, Specimen Type, Specimen Quantity, Quantity UOM, Specimens Count, Additional Stock, Concentration, Ratio 260-280, DNA Source, Total Visits, Initial Visit Age, Initial Global CDR, Initial UDS Status, Initial Diagnosis, DICOM Available, Last Age, Decline Age, Last Global CDR, Last UDS Status, Last Diagnosis, Deceased, Age at Death, Autopsy Available, Braak Stage, and CERAD.

The screenshot shows the ADC Catalog application with the dataset table displayed. The table has the following columns: NACCID, Specimen Type, Specimen Quantity, and Quantity UOM. The table contains 20 rows of data. The interface also shows a "Toggle field visibility" dialog box with the text: "Use these checkboxes to toggle the visibility of columns in the catalog". The dialog box has "Prev", "Next", and "End tour" buttons. The background shows the ADC Catalog interface with a sidebar on the left containing various filters like NACCID, Sex, Race, Years of Education, Specimen Type, Specimen Quantity, Quantity UOM, Specimens Count, Additional Stock, Concentration, Ratio 260-280, DNA Source, Total Visits, Initial Visit Age, Initial Global CDR, Initial UDS Status, Initial Diagnosis, DICOM Available, Last Age, Decline Age, Last Global CDR, Last UDS Status, Last Diagnosis, Deceased, Age at Death, Autopsy Available, Braak Stage, and CERAD.

| NACCID | Specimen Type | Specimen Quantity | Quantity UOM |
|--------|---------------|-------------------|--------------|
| 20527 | NACC031676 | DNA | 5 ug |
| 20590 | NACC046061 | DNA | 5 ug |
| 20589 | NACC468633 | DNA | 5 ug |
| 20551 | NACC722051 | DNA | 5 ug |
| 20722 | NACC815678 | DNA | 5 ug |
| 20873 | NACC404251 | DNA | 5 ug |
| 20725 | NACC793322 | DNA | 5 ug |
| 20878 | NACC165757 | DNA | 5 ug |
| 23500 | NACC666455 | DNA | 5 ug |
| 23359 | NACC928893 | DNA | 5 ug |
| 23361 | NACC968763 | DNA | 5 ug |
| 20881 | NACC394961 | DNA | 5 ug |
| 23353 | NACC987523 | DNA | 5 ug |
| 23421 | NACC528063 | DNA | 5 ug |
| 21409 | NACC835931 | DNA | 5 ug |
| 21412 | NACC032271 | DNA | 5 ug |
| 21486 | NACC611039 | DNA | 5 ug |
| 20728 | NACC333002 | DNA | 5 ug |
| 21603 | NACC148948 | DNA | 5 ug |
| 22202 | NACC843246 | DNA | 5 ug |
| 23381 | NACC601145 | DNA | 5 ug |
| 23383 | NACC141480 | DNA | 5 ug |
| 24300 | NACC517482 | DNA | 5 ug |
| 24302 | NACC845177 | DNA | 5 ug |
| 21735 | NACC571764 | DNA | 5 ug |
| 23356 | NACC395904 | DNA | 5 ug |
| 25111 | NACC987468 | DNA | 5 ug |
| 25120 | NACC810748 | DNA | 5 ug |
| 21424 | NACC377498 | DNA | 5 ug |
| 21440 | NACC017390 | DNA | 5 ug |
| 21456 | NACC007556 | DNA | 5 ug |
| 21457 | NACC547123 | DNA | 5 ug |

Links with NIAGADS

Catalog Selections

Please follow the steps below to select the criteria necessary for your research.

1. View the study Data Dictionary to see all available catalog fields' and their descriptions.

[Dictionary](#)

*Additional data were collected for this study. To download a list of additional variables [click here](#). Contact us to request more information about data that are not available in this catalog: alzstudy@iu.edu or 800-526-2839.

2. Click on **Select Columns** below to choose the fields you would like to display in the catalog.

[Select Columns](#)

3. Click on **Filter Columns** below to filter the catalog by applying criteria to individual fields.

[Filter Columns](#)

4. Please **Download** the records you have selected from the catalog. The downloaded CSV file will include all of the columns you have selected and the subjects that met your filtering criteria. Please use this list to work with your statistician to determine feasibility for your research project.

[Download](#)

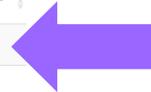
5. **Contact us!** Please use your downloaded file to work with your statistician to determine feasibility for your research project. When you feel comfortable with the list of samples you have selected, please contact NCRAD to work through the request process. You can reach us at: alzstudy@iu.edu or 800-526-2839.

Late-Onset Alzheimer's Disease Family Study

Welcome and thank you for visiting the NCRAD catalog for the NIA-LOAD study! Please use this tool to help you determine feasibility of this collection for your request. Located on the left hand side of the screen, you will find expandable data mining tools for personalized sample selection. Use these tools to narrow our catalog to only those samples applicable for your research. This application is designed to help you find a list of subjects that can meet your research needs. Please do not hesitate to contact us at any point in the process to ask any questions, provide comments, or talk through your sample needs. You can reach us at: alzstudy@iu.edu or 800-526-2839.

Showing 1 to 25 of 7,126 entries

| Subject ID | Family ID | Sex | Autopsy | Dementia Status | Age at Onset | NIAGADS Data |
|------------|-----------|--------|-----------------|---|--------------|------------------|
| 100001 | 1000 | Female | Missing/Unknown | Probable AD | 72 | NG00020, NG00032 |
| 100101 | 1001 | Female | Missing/Unknown | Probable AD | 78 | NG00020, NG00032 |
| 100102 | 1001 | Male | Missing/Unknown | Probable AD | 65 | NG00020, NG00032 |
| 100103 | 1001 | Female | Missing/Unknown | Not demented, no neurological disorder | | NG00020, NG00032 |
| 100104 | 1001 | Female | Missing/Unknown | Not demented, no neurological disorder | | NG00020, NG00032 |
| 100201 | 1002 | Female | Missing/Unknown | Probable AD | 73 | NG00020, NG00032 |
| 100301 | 1003 | Male | Missing/Unknown | Probable AD | 69 | NG00020, NG00032 |
| 521641 | 1003 | Female | Missing/Unknown | Probable AD | 71 | |
| 100401 | 1004 | Female | Missing/Unknown | Probable AD | 63 | NG00020, NG00032 |
| 521642 | 1004 | Male | Missing/Unknown | Questionable dementia or cognitive impairment | | |
| 521643 | 1004 | Female | Missing/Unknown | Dementia by family report | 70 | |
| 521644 | 1004 | Male | Missing/Unknown | Not demented, no neurological disorder | | |
| 100501 | 1005 | Female | Missing/Unknown | Probable AD | 76 | NG00020, NG00032 |
| 521645 | 1005 | Male | Missing/Unknown | Other | | |
| 100601 | 1006 | Female | Missing/Unknown | Probable AD | 81 | NG00020, NG00032 |



Samples with genetic data at NIAGADS are hyperlinked directly to the information page for the dataset.

Indication of NCRAD sample available in NIAGADS dataset.



NIAGADS INQuery

Allowed Dataset: ALL

Reset Commit Export Search

Query By By SNP By Position

Markers

| NIAGADS_ID | subject_id | niagads_data | nrcrad_sample | cohort | dx | sex |
|------------|------------|--------------|---------------|--------|----|-----|
| NG00020 | 100001 | NG00032 | Yes | LOAD | AD | F |
| NG00020 | 100101 | NG00032 | Yes | LOAD | AD | F |
| NG00020 | 100102 | NG00032 | Yes | LOAD | AD | M |
| NG00020 | 100103 | NG00032 | Yes | LOAD | AD | F |
| NG00020 | 100104 | NG00032 | Yes | LOAD | AD | F |
| NG00020 | 100201 | NG00032 | Yes | LOAD | AD | F |
| NG00020 | 100301 | NG00032 | Yes | LOAD | AD | M |
| NG00020 | 521641 | | Yes | LOAD | AD | F |
| NG00020 | 100401 | NG00032 | Yes | LOAD | AD | F |
| NG00020 | 521642 | | Yes | LOAD | AD | M |
| NG00020 | 521643 | | Yes | LOAD | AD | F |
| NG00020 | 521644 | | Yes | LOAD | AD | M |
| NG00020 | 100501 | NG00032 | Yes | LOAD | AD | F |
| NG00020 | 521645 | | Yes | LOAD | AD | M |
| NG00020 | 100601 | NG00032 | Yes | LOAD | AD | F |
| NG00020 | 100002 | | No | LOAD | AD | F |
| NG00020 | 100003 | | No | LOAD | AD | F |
| NG00020 | 100004 | | No | LOAD | AD | F |
| NG00020 | 100005 | | No | LOAD | AD | F |
| NG00020 | 100006 | | No | LOAD | AD | F |
| NG00020 | 100007 | | No | LOAD | AD | F |
| NG00020 | 100008 | | No | LOAD | AD | F |
| NG00020 | 100009 | | No | LOAD | AD | F |
| NG00020 | 100010 | | No | LOAD | AD | F |
| NG00020 | 100011 | | No | LOAD | AD | F |
| NG00020 | 100012 | | No | LOAD | AD | F |
| NG00020 | 100013 | | No | LOAD | AD | F |
| NG00020 | 100014 | | No | LOAD | AD | F |
| NG00020 | 100015 | | No | LOAD | AD | F |
| NG00020 | 100016 | | No | LOAD | AD | F |
| NG00020 | 100017 | | No | LOAD | AD | F |
| NG00020 | 100018 | | No | LOAD | AD | F |
| NG00020 | 100019 | | No | LOAD | AD | F |
| NG00020 | 100020 | | No | LOAD | AD | F |
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| NG00020 | 100026 | | No | LOAD | AD | F |
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| NG00020 | 100030 | | No | LOAD | AD | F |
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| NG00020 | 100032 | | No | LOAD | AD | F |
| NG00020 | 100033 | | No | LOAD | AD | F |
| NG00020 | 100034 | | No | LOAD | AD | F |
| NG00020 | 100035 | | No | LOAD | AD | F |
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| NG00020 | 100040 | | No | LOAD | AD | F |
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| NG00020 | 100046 | | No | LOAD | AD | F |
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| NG00020 | 100170 | | No | LOAD | AD | F |
| NG00020 | 100171 | | No | LOAD | AD | F |
| NG00020 | 100172 | | No | LOAD | AD | |

Link at NACC to NCRAD

| Available as: | ROW | COLUMN | PAGE |
|---|----------------------------------|-----------------------|-----------------------|
| FTLD type, most recent FTLD module visit | <input type="radio"/> | <input type="radio"/> | |
| + Genetics | | | |
| APOE genotype available at NACC | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| APOE genotype | <input type="radio"/> | <input type="radio"/> | |
| Number of APOE e4 alleles | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Subject/family has known AD Mutation (APP, PS1, PS2) | <input type="radio"/> | <input type="radio"/> | |
| Subject/family has known FTLD mutation (MAPT, PGRN, C9ORF72, FUS) | <input type="radio"/> | <input type="radio"/> | |
| Genomic data/DNA samples available outside of NACC (ADGC, NIAGADS, NCRAD) | <input checked="" type="radio"/> | <input type="radio"/> | |

NACC Query System: UDS Subjects

NOTE: This query used versions 1-3 of UDS data

These data should be used only as rough, preliminary numbers. For publication purposes, please submit a custom data request

Genomic data/DNA samples available outside of NACC (ADGC, NIAGADS, NCRAD)

| Genomic data/DNA samples available outside of NACC (ADGC, NIAGADS, NCRAD) | Frequency (n) |
|---|---------------|
| Genotype data available at ADGC | 13187 |
| Genotype data available at NIAGADS | 3285 |
| Exome sequencing data available from dbGaP / ADSP | 3285 |
| DNA sample available at NCRAD | 24593 |
| Total UDS subjects | 38836 |

Data from [Additional genetic data](#)

Created on October 11, 2018

Data as of September 1, 2018

www.alz.washington.edu

What About Samples Beyond DNA

- NCRAD is often considered only a DNA repository
- NCRAD banks a broader range of samples
- Challenge: NCRAD does not have enough:
 - Plasma, serum, CSF, RNA
 - from AD, cognitively normal controls, MCI

Accessing Biospecimens and Data

In order to ensure that researchers have the most accurate information, the National Cell Repository for Alzheimer's Disease (NCRAD) is continually updated with new information. At the time data is requested, NCRAD will provide the researcher with the most current information. Therefore, NCRAD encourages all researchers to request an updated set of variables prior to publication and implementation of analyses involving samples acquired from the Repository. While every effort is made to verify all data and information, NCRAD cannot be responsible for any errors or omissions in the distributed data.

| Cohort | Population | Genomic DNA | Cell Line DNA | RNA | Plasma | Serum | LCLs | PBMCs | CSF |
|---------------------|--|-------------|---------------|-----|--------|-------|------|-------|-----|
| ADNI | AD Cases, Controls, MCI | ✓ | ✓ | ✓ | | | ✓ | | |
| AA Genetics | AD Cases, Controls | | ✓ | | | | ✓ | | |
| ADCs | AD and other dementia cases, Controls, MCI | ✓ | ✓ | | | | | ✓ | |
| DIAN | Early Onset AD Families with known mutations | | ✓ | | | | ✓ | | |
| GEMS | Dementia prevention | ✓ | | | ✓ | ✓ | | | |
| GIFT | AD, FTD, Controls | ✓ | ✓ | | | | ✓ | | |
| Indianapolis-Ibadan | Elderly African Americans from Indianapolis, Yoruba living in Ibadan | ✓ | ✓ | | | | ✓ | | |
| NCRAD Family | AD and other dementia families | ✓ | ✓ | | | | ✓ | ✓ | |
| NIA-LOAD | Late Onset AD Families, Controls | ✓ | ✓ | | | | ✓ | | |
| ARTFL | FTLD syndrome cases and healthy family members | ✓ | | ✓ | ✓ | ✓ | | ✓ | ✓ |
| LEFFTDS | FTLD family study with known genetic mutations (symptomatic and asymptomatic family members) | ✓ | | ✓ | ✓ | ✓ | | ✓ | ✓ |

ADC Samples Coming to NCRAD

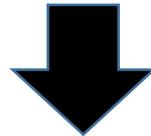
| Study/PI/Grant | Subject Description | Samples to be Transferred |
|---|---|---|
| Study: Case Western ADC PI: Alan Lerner Grant: P50AG008012 | The Case Western ADC was previously funded by the NIA and assessed and followed a large number of subjects. NCRAD will receive aliquots from subjects with MDS/UDS data at NACC. | <ul style="list-style-type: none">• DNA and buffy coats• Brain tissue• Plasma aliquots• CSF aliquots |
| Study: Banner/Mayo PIs: Eric Reiman and Richard Caselli Grant: P30AG031581 | The Arizona ADC was funded in 1998, but subjects were enrolled at the Banner and Mayo Clinic Arizona sites beginning in 1994. Samples from these subjects will be transferred to NCRAD. Clinical data for these subjects was already transferred to NACC. | <ul style="list-style-type: none">• Plasma aliquots• Serum aliquots• CSF aliquots |

Samples (above) collected under rapid processing protocol, but may be variable to final ADC Biomarker Initiative approved protocol

Accelerating Biomarker Development: Planning For the First Year

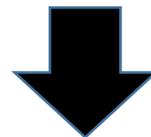
ADC

Propose blood collection from 3,000 subjects



| Volume | Product |
|----------|------------------------------------|
| 2x10 ml | Buffy coat (DNA) + Plasma aliquots |
| 2x10 ml | PBMCs |
| 1x10 ml | Serum aliquots |
| 1x2.5 ml | RNA |

Uniformly collected & processed blood samples



NCRAD

Buffy coat, plasma, serum aliquots; Blood for RNA, PBMCs

Plan to link specimens and data

- NCRAD will extend our catalogs to also display all available samples
 - Link through visit and NACC ID to NACC dataset
- How much NACC data
 - Link to NACC provided minimal dataset hosted at NCRAD
 - Link to subset of NACC variables joined to NCRAD catalog
- Suppose you want to query based on the more extensive UDS data at NACC?

Join Data

For many studies, more extensive data can be obtained from the study's data coordinating center. The catalog system supports joining this external data with the NCRAD biospecimen catalog data. This allows researchers to easily filter and select specimens based on criteria outside of those available in the catalog.

By clicking here, the join external data box appears.



The screenshot shows the NCRAD biospecimen catalog interface. A 'Join External Data' dialog box is open, overlaid on a table of specimen data. The dialog box contains the following text:

Join External Data

Select files to join to the catalog. Once joined you can filter results based on the new data

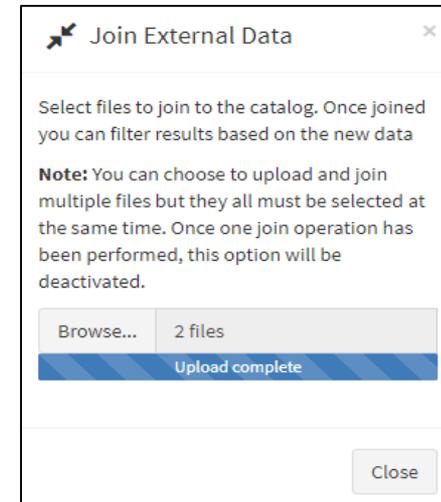
Note: You can choose to upload and join multiple files but they all must be selected at the same time. Once one join operation has been performed, this option will be deactivated.

The background table shows specimen data with columns for NACCID, Specimen Type, Specimen Count, and Last Diagnosis. The 'Join Data' button in the top navigation bar is highlighted.

| NACCID | Specimen Type | Specimen Count | Last Diagnosis |
|--------|---------------|----------------|---|
| 20527 | DNA | 154 | Alzheimer's disease (AD) |
| 20590 | DNA | 128 | Alzheimer's disease (AD) |
| 20589 | DNA | 222 | FTLD, other |
| 20551 | DNA | 2 | Alzheimer's disease (AD) |
| 20722 | DNA | 50 | Alzheimer's disease (AD) |
| 20873 | DNA | 828 | Alzheimer's disease (AD) |
| 20725 | DNA | 78 | Alzheimer's disease (AD) |
| 20878 | DNA | 772 | Not applicable, not cognitively impaired |
| 23500 | DNA | 230 | FTLD, other |
| 23359 | DNA | 180 | Not applicable, not cognitively impaired |
| 23361 | DNA | 126 | Alzheimer's disease (AD) |
| 20881 | DNA | 298 | Vascular brain injury or vascular dementia including stroke |
| 23353 | DNA | 268 | Alzheimer's disease (AD) |
| 23421 | DNA | 246 | Alzheimer's disease (AD) |
| 21409 | DNA | 52 | FTLD, other |
| 21412 | DNA | 304 | Lewy body disease (LbD) |
| 21486 | DNA | 138 | Alzheimer's disease (AD) |

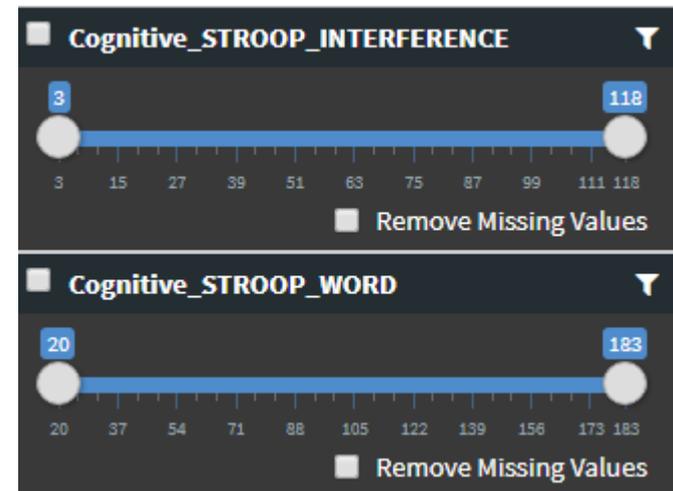
Join Data

- Once data is uploaded, data is joined by the Subject Identifier and Visit Code for that study. If successful, the Join External Data window will note “Upload Complete”.
- The “All files joined” banner will be green indicating which fields were joined from the external data and catalog data. In this example, the Subject data was joined by SUBJID while the longitudinal Cognitive data was joined by SUBJID and EVENT.
- Joined data is analyzed during the upload process to determine data type along with min/max for numeric values or choices for drop-downs. Uploaded data is prefixed by the filename and is appended to the field list. other fields on the left field panel.



All files joined

Joining phs000222.v4.pht001154.v3.p2.Predict_HD_Subject.MULTI.txt by SUBJID
Joining phs000222.v4.pht002872.v2.p2.c1.Cognitive.GRU.txt by SUBJID, EVENT



Questions...

- What kind of questions do you want to be able to ask with specimens?
- What kinds of specimens do you need?
- What are the criteria you want to use to select subjects?

Acknowledgement

- NCRAD Executive Committee
- NCRAD Biospecimen Review Committee
- NIA
- Alzheimer Disease Centers
- NACC
- NIAGADS
- ADGC
- Studies contributing samples to NCRAD

Questions/Contact:
kelfaber@iu.edu or
alzstudy@iu.edu



NCRAD Staff

