The National Cell Repository for Alzheimer's Disease

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NCRAD, NACC and the ADCs have a strong collaboration

Data for ADC Contributed Samples

- 25,230 with APOE
- 16,198 with GWAS ADC 1-9
- 11,378 with exome chip
- 3,261 with WES through the ADSP
- 1,183 with WGS through the ADSP
 - ~3,000 more included in ADSP follow up studies
- *all totals above include Phase 1 and Phase 2 subjects
 - NCRAD

~9,000 individuals

Opportunity for new

without GWAS

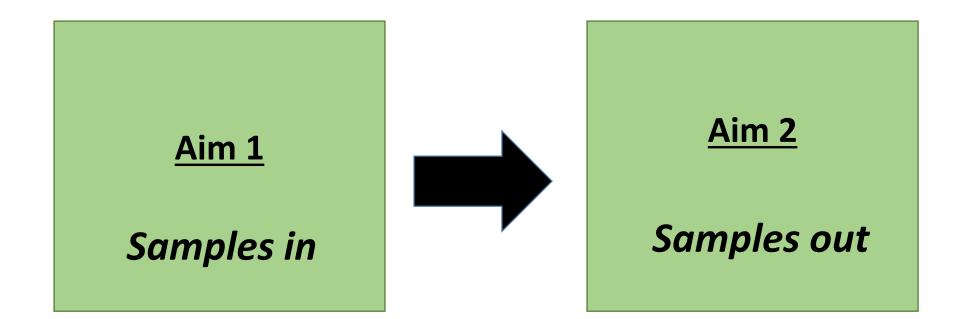
research efforts

NCRAD banks samples for 28 studies

- One 'study' is the ADCs
- Bank samples from 27 other studies
 - Receive samples from ongoing studies as well as closed studies
- NCRAD has samples from > 63,000 subjects
 - ~500,000 sample aliquots received



NCRAD Specific Aims





NCRAD Expansion

- Goal: Meet the growing research needs due to increases in NIA funding
- Meet needs of researchers requesting samples
 - Ensure that a broad range of biospecimens are available from a wide range of studies
- Offer central banking and biorepository management to more research studies
 - Prioritize studies with diverse cohorts, unique patient populations, extensive longitudinal data



NCRAD Study Support https://www.ncrad.org/



Home	About NCRAD	Information For Families	Biospecimens & Data	Banking with NCRAD	Tools for Active Studies		
NCRAD Lab Infor Holiday Closure		Alzheimer's Disea Sample Requirer	se Centers nents, Kit Requests,	Study Resources 4RTNI-2			
Shipping Addre	ss	and Forms		ADDS/NIAD			
What to Do for	Friday Blood Draws	NCRAD-NIAGADS	5 Newsletters	ADNI-3			
utopsy Resource	es			ADNI Depression			
IU LOAD to Colu	umbia University			ADNI DoD			
NCRAD to Rush	University			ARTFL/LEFFTDS			
				DIAN			
				I-CONECT			
				90+ Study			
				NIA-LOAD Study			
				NIFD			



















Tools for Active Studies

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Home	About NCRAD			Banking with NCRAD			
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	ARTFL	LEFFTDS (Visit 1)	LEFFTDS (Visit 2)	LEFFTDS (Visit 3)		ender Top-EDTA raw/Take Home Sample m	
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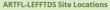
* Select patient populations to donate CSF

ARTFL: 40-50 subjects

• LEFFTDS: 200-250 subjects

Study Resources

Kit Request Module
Study Specific Sample Notification Forms
ARTFL-LEFFTDS Manual of Procedures
Study Related Video Tutorials
ARTFL-LEFFTDS Training Slides
ARTFL-LEFFTDS Study Common Questions and Answers





Questions/Comments

Email: alzstudy@iu.edu Phone: 800-526-2839

Friday Blood Draws

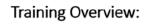
Shipping Address Holiday Closures

NCRAD's Services:

- Create Manual of Procedures
- Supply Kits
 - Supplies to draw, process, and ship supplies back to NCRAD
- Provide Study Coordinator Training
- Array of Services Including Sample Receipt, Processing, and Storage
- Fulfill Sample Orders from Approved Investigators







- Study Update Overview
- Kit/Kit Request Module Update
- Specimen Label Update
- Sample Handling/Processing Update
- Sample Shipping Update
- Sample Form Updates
- Questions?

To learn more....

- NIA encourages research studies to utilize NCRAD for biospecimen management
 - Contact NCRAD when preparing a grant application to obtain more information
 - Contact NCRAD if samples from a completed study could be shared with other researchers
 - Is there a new specimen protocol you want to implement and need advice?.... Contact NCRAD

kelfaber@iu.edu or alzstudy@iu.edu



NCRAD Sample Distributions

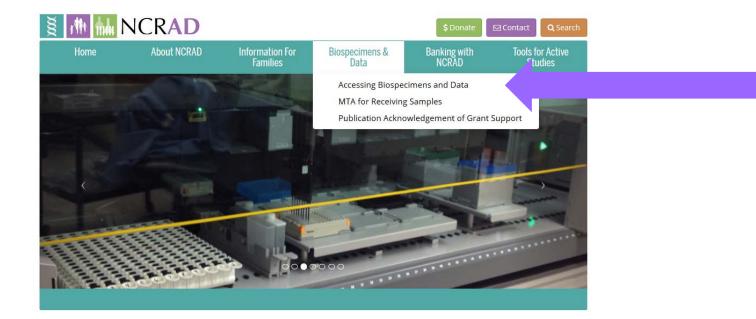
	Since Inception (through 6/30/2017)
# researchers	145
# DNA	211,271
# blood	811
# cell lines	1,939
# plasma	6,418
# serum	115
# PBMC	12
# RNA	50

NCRAD Sample Distributions

- More requests for samples other than DNA
 - Plasma, serum, and CSF, increasing requested
- Investigators need to pair clinical data and genetic data to select samples for other studies
- NCRAD is developing approaches to make it easy to query this information and select samples



NCRAD Catalogs















Studies with Samples Banked at NCRAD

Navigating to the NCRAD Catalogs

X Accessing Biospecimens and Data

In order to ensure that researchers have the most accurate information, the National Cell Repository for Alzhelmer'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		PBMCs	
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	 Image: A second s			 Image: A second s	 Image: A second s			
GIFT	AD, FTD, Controls	×	× .				~		
Indianapolis- Ibadan	Elderly African Americans from Indianapolis, Yoruba Iiving in Ibadan	~	~				~		
NCRAD Family	AD and other dementia families	~	~				~	~	
NIA-LOAD	Late Onset AD Families, Controls	~	×				~		
ARTFL	FTLD syndrome cases and healthly family members	~		~	~	~		~	~
LEFFTDS	FTLD family study with known genetic mutations (symtomatic and asymtomatic family members)	~		~	~	~		~	~
ADNI								·	
AA Gene	tics								
ADCs									

SAMPLETYPES We Bank

Additional Resources

MTA for Receiving Samples Publication Acknowledgement Sample Types We Bank NCRAD Executive Committee

Study Websites

ADNI Alzheimer's Disease Neuroimaging Initiative

ADCs Alzheimer's Disease Centers

DIAN Dominantly Inherited Alzheimer

Indianapolis-Ibadan Indianapolis Ibadan Faidemialogisal Study of Domos

Questions/Comments

Email: alzstudy@iu.edu Phone: 800-526-2839

DIAN

GEMS

GIFT

Indianapolis-Ibadan

NCRAD Family

NIA-LOAD

The NIA Genetics Initiative/NIA-LOAD Study is a multi-site study initiated in 2002 with the purpose of identifying families with multiple members diagnosed with late-onset Alzheimer's Disease (LOAD). Autopsy is offered to all active study subjects.

Study Subjects

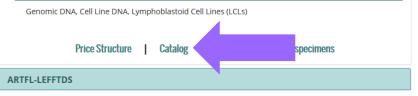
The study requires at least two full siblings with late onset Alzheimer's disease (symptoms developed after age 60) and a third family member who is either: 1) affected and over age 50; or 2) unaffected and over age 60. In addition, a control cohort was also enrolled. These subjects were enrolled over the age of 60 with no neurological problems such as Alzheimer's disease, Parkinson's disease or stroke and have no parents, children or siblings with Alzheimer's disease.

Available Data

Enrolled family members complete a study visit (in person or by telephone). Study subjects are followed longitudinally and complete a study visit approximately every 2 years.

The catalog for the NIA-LOAD Study consists of a subset of variables that can be used to better understand the dataset and perform initial feasibility studies. Sites submit study data quarterly to the study data coordinating center located at Columbia University. This catalog is then updated quarterly after data cleaning is complete. Additional data can be requested from Columbia University.

Available Biospecimens



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

NCRAD Data Agreement

SAMPLETYPE:

NCRAD Biospe

)uestions/Comments

Email: alzstudy@iu.edu

Phone: 800-526-2839

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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. 1 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. Lunderstand that any data Ldownload may change as new quality assurance measures are implemented and data records are updated.
- H. 1 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 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.

Section II: Data Analysis

- A. I will respond promptly and accurately to NCRAD's requests for updates on the status of my analyses.
- B. I will review the data documentation provided by NCRAD and consult with NCRAD research coordinators in order to ensure the accurate use and description of study data in my analysis and any ensuing presentations or publications, as well as to ensure the understanding of subtle data complexities.
- C. If more than 1 year passes before publication, I will download and updated dataset to ensure the most accurate and up to date data is used.

Section III: Publication

- A. I will include the NCRAD acknowledgement for all samples and data obtained: Samples and data from the National Cell Repository for Alzheimer's Disease (NCRAD), which receives government support under a cooperative agreement grant (U24 AG21886) awarded by the National Institute on Aging (NIA), were used in this study. We thank contributors who collected samples used in this study, as well as patients and their families, whose help and participation made this work possible.
- B. I will acknowledge the work by each specific study that went into accumulating the data and samples and its funding source(s), and will include language in the manuscripts associated with the correct collection. Every study has specific acknowledgement language. As new catalogs are added, additional language will continue to be listed.
 - NIA-LOAD: The NIA-LOAD study supported the collection of samples used in this study through National Institute on Aging (NIA) grants U2AAG026395 and R01AG041797. We thank contributors, including the Alzheimer's Disease Centers who collected samples used in this study, as well as patients and their families, whose help and participation made this work possible.
 - 2. Indianapolis-Ibadan: The Indianapolis-Ibadan dementia project is a 20 year comparative community based epidemiological study of the prevalence, incidence and risk factors for AD and dementia in populations of African origin, elderly African Americans in Indianapolis, Indiana and Yoruba in Ibadan, Nigeria. It was supported from 1991-2012 by NIH grants RO1 AG09956 and P30 AG 10133. We would like to take this opportunity to thank the many faculty and staff of the University of Ibadan and Indiana University School of Medicine for their involvement as well as the 4000 plus elderly participants at each of the sites.
- C. I will notify NCRAD if my manuscript is accepted for publication and/or presentation.
- D. I will ensure the proper submission of all published work to PubMed Central (PMC) in order to comply with the NIH Public Access Policy.

I understand that failure to abide by these guidelines will result in termination of my privileges to access NCRAD data.

I AGREE to the terms outlined above

You must click the "I AGREE" box above to proceed.

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

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.

W	elcome to the IUGB Web P	ortal
	Please Sign In	
	Username	
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	Log in	
	Trouble signing in? Click H	ere
BIOSEN	S M LL	DENTRY PREDICT-HD As charmaticnal study of the artices signs of Humington 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.

ARTFL_LEFFTDS Catalog	Dictionary	📌 Join Data	Selection -	📥 Download 🚽 🛛 🕄	Help 😝 Tour			Signed in as mkpotter 🕒 Logout
Column Filter Search		GUID	🔶 ARTFL	LEFFTDS	Specimen Type	Visit 🔶	Specimen Quantity 🔶 Quantity UOM 🔶	Specimen Count 崇
	137140	PDRP439ND7	Yes	No	PLASMA	Cycle 1 - Blood	500 ul	10 ^
🛛 GUID 🛛 🕇	137102	PDLH754MYK	Yes	No	PLASMA	Cycle 1 - Blood	500 ul	10
🛛 ARTFL 🛛 🔻	137136	PDCM442CZ2	Yes	Yes	PLASMA	Cycle 1 - Blood	500 ul	34
☑ LEFFTDS T	137169	PDTR790BWE	Yes	No	PLASMA	Cycle 1 - Blood	500 ul	9
Sex T	137580	PDMG002NWU	Yes	No	PLASMA	Cycle 1 - Blood	500 ul	9
Race T	137891	PDCY569XXC	Yes	No	CSF	Cycle 1 - CSF	500 ul	4
Hispanic T	137647	PDCC634EK2	Yes	Yes	CSF	Cycle 1 - CSF	500 ul	20
Deceased T	137627	PDNN420JUH	Yes	Yes	CSF	Cycle 1 - CSF	500 ul	20
Age at Baseline Blood	137722	PDXZ993WHV	Yes	Yes	CSF	Cycle 1 - CSF	500 ul	20
Age at Last Blood	175685	PDUD490MM4	Yes	No	PLASMA	Cycle 1 - Blood	500 ul	9
 Baseline Diagnosis 	175746	PDBT334MKW	Yes	No	CSF	Cycle 1 - CSF	500 ul	25
Last Diagnosis	175780	PDGG098HHY	Yes	Yes	CSF	Cycle 1 - CSF	500 ul	21
Relevent Mutation	175906	PDBN316PWR	Yes	Yes	CSF	Cycle 1 - CSF	500 ul	26
Age at Onset	175969	PDNZ271VGZ	Yes	Yes	PLASMA	Cycle 1 - Blood	500 ul	10
Specimen Type	175666	PDRN458WAK	Yes	No	PLASMA	Cycle 1 - Blood	500 ul	9
	175922	PDGG098HHY	Yes	Yes	PLASMA	Cycle 1 - Blood	500 ul	9
Visit T	175980	PDBN316PWR	Yes	Yes	PLASMA	Cycle 1 - Blood	500 ul	9
Specimen Quantity	101010	PDVE306WBM	Yes	Yes	PLASMA	Cycle 1 - Blood	500 ul	6
Quantity UOM T		PDFW368HKW	Yes	Yes	PLASMA	Cycle 1 - Blood	500 ul	6
Specimen Count	187074	PDNA720RL9	Yes	Yes	PLASMA	Cycle 1 - Blood	500 ul	6
Additonal Stock		PDHC477YNB	Yes	Yes	CSF	Cycle 1 - CSF	500 ul	24
Age at Baseline CSF		PDFW368HKW	Yes	Yes	CSF	Cycle 1 - CSF	500 ul	32
Age at Last CSF	186930	PDXW135MV3	Yes	Yes	CSF	Cycle 1 - CSF	500 ul	20
Concentration	189403	PDFF049NGV	Yes	Yes	CSF	Cycle 1 - CSF	500 ul	33
Concentration UOM	189366	PDFP413JH5	Yes	Yes	CSF	Cycle 1 - CSF	1000 ul	0
RIN Value	189375	PDFP413JH5	Yes	Yes	CSF	Cycle 1 - CSF	500 ul	17
■ 260/280 Ratio ▼	189502	PDEM854TXH	Yes	Yes	PLASMA	Cycle 1 - Blood	500 ul	10
■ 260/230 Ratio ▼	189598	PDKB230ZJK	Yes	Yes	PLASMA	Cycle 1 - Blood	500 ul	8
■ rRatio	189287	PDKB230ZJK	Yes	Yes	CSF	Cycle 1 - CSF	500 ul	33
	189345	PDHU712CEH	Yes	Yes	CSF	Cycle 1 - CSF	1000 ul	0

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.

ARTFL_LEFFTDS Catalog	Diction									Signed in as mkpotter 🕞 Log
Column Filter Search		GUID	ARTFL	LEFFTDS	Baseline Diagnosis	Specimen Type	Visit 🔶	Specimen Quantity 🖗	Quantity UOM	Specimen Count
	220981	PDHK258TNG	Yes	Yes	Alzheimers disease dementia	PLASMA	Cycle 1 - Blood	500	ul	
GUID	220987.2	PDHK258TNG	Yes	Yes	Alzheimers disease dementia	PBMC	Cycle 1 - Blood	2.3	x10^6 cells/1ml	
	259149	PDNF087ZAW	No	Yes	Alzheimers disease dementia	CSF	Cycle 1 - CSF	500	ul	
Remove Missing Values	399107	PDWR937LJ2	Yes	No	Alzheimers disease dementia	RNA	Cycle 1 - Blood	10000	ul	
ARTFL	399112	PDWR937LJ2	Yes	No	Alzheimers disease dementia	PLASMA	Cycle 1 - Blood	500	ul	
LEFFTDS	404380	PDFH409TGY	Yes	No	Alzheimers disease dementia	RNA	Cycle 1 - Blood	10000	ul	
Sex	259136	PDNF087ZAW	No	Yes	Alzheimers disease dementia	CSF	Cycle 1 - CSF	1000	ul	
Race	399106.2	PDWR937LJ2	Yes	No	Alzheimers disease dementia	RNA	Cycle 1 - Blood	2	ug	
Hispanic	648848	PDBG783XGC	Yes	No	Alzheimers disease dementia	PLASMA	Cycle 1 - Blood	500	ul	
	648886	PDBG783XGC	Yes	No	Alzheimers disease dementia	SERUM	Cycle 1 - Blood	500	ul	
	429155.2	PDNF087ZAW	No	Yes	Alzheimers disease dementia	RNA	Cycle 1 - Blood	2	ug	
Age at Baseline Blood	834970.2	PDPW717KAQ	Г ан.				:-//	2.06	x10^6 cells/1ml	
Age at Last Blood	811808	PDNF087ZAW	FOL V	variat	ole "Baseline	e diagnos	SIS" -	500	ul	
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Alzheimers disease dementia Alzheimers disease dementia Behavioral variant frontotemporal dementia Clinically normal Corticobasal syndrome typical or variant Dementia with Lewy bodies FTD/ALS MCI behavior MCI cognitive variants aMCIsd aMCImd naMCIsd naWCImd, Quantity UOM Specimen Count Additonal Stock Age at Baseline CSF	811223 811555 8349957 834984 288943.4 289933.5 259131.4 259131.6 429156 811584.1 429162.1 288937	PDNF087ZAW PDPW717KAQ PDPW717KAQ PDPW717KAQ PDPW717KAQ PDPW717KAQ PDNF087ZAW PDNF087ZAW PDNF087ZAW PDNF087ZAW PDNF087ZAW	Chos show No No No No	Sen as ws up Ves Ves Ves Ves Ves Ves Ves	Alzheimers disease dementia Alzheimers disease dementia	CSF CSF CSF CSF PLASMA PBMC PLASMA	Cycle 1 - CSF Cycle 1 - CSF Cycle 1 - CSF Cycle 1 - CSF Cycle 1 - Blood Cycle 2 - Blood Cycle 1 - Blood	500 500 1000 500 200 10000 200 170 200 54.8 500 1	ul u	
Alzheimers disease dementia Alzheimers disease dementia Eehavioral variant frontotemporal dementia Ciritcally normal Corticobasal syndrome typical or variant Dementia with Lewy bodies FTD/ALS MCI behavior MCI cognitive variants aMCIsd aMCImd na/MCIsd na/CImd, Quantity UOM Specimen Count Additonal Stock Age at Baseline CSF Age at Last CSF Stock St	811823 811555 8349957 834984 288943.4 288933.5 259131.4 259131.6 429156 811584.1 429162.1 288937 400295	PDNF087ZAW PDPW717KAQ PDNF087ZAW	Chos shov No No No No Vo Vo Vo	Sen as ws up Ves Ves Ves Ves Ves Ves Ves Ves Ves Ves	Alzheimers disease dementia Alzheimers disease dementia	CSF CSF CSF CSF PLASMA PBMC PLASMA CSF	Cycle 1 - CSF Cycle 1 - CSF Cycle 1 - CSF Cycle 1 - CSF Cycle 1 - Blood Cycle 2 - Blood Cycle 2 - Blood Cycle 1 - Blood Cycle 1 - Blood	500 500 1000 500 200 200 200 54.8 500 1 200 500 500	ul u	
Alzheimers disease dementia Alzheimers disease dementia Behavioral variant frontotemporal dementia Clinically normal Corticobasal syndrome typical or variant Dementia with Lewy bodies FTD/ALS MCI behavior MCI cognitive variants aMCIsd aMCImd na/MCIsd na/MCIsd na/MCIsd aMCImd Specimen Count Additonal Stock Age at Baseline CSF Age at Last CSF Concentration Concentration Additional Concentration Additional Concentration C	811823 811555 8349957 834984 288943.4 288933.5 259131.4 259131.6 429156 811584.1 429162.1 288937 400295 400306.2	PDNF087ZAW PDPW717KAQ PDPW717KAQ PDPW717KAQ PDPW717KAQ PDPW717KAQ PDPW717KAQ PDNF087ZAW PDPW717KAQ PDPW717KAQ	Choss shov No No No No No No No Ves Ves Ves Ves No No No Ves Ves Ves	Sen as WS up Ves Ves Ves Ves Ves Ves Ves Ves Ves Ves	Alzheimers disease dementia Alzheimers disease dementia	CSF CSF CSF CSF PLASMA PBMC PLASMA CSF PLASMA	Cycle 1 - CSF Cycle 1 - CSF Cycle 1 - CSF Cycle 1 - CSF Cycle 1 - Blood Cycle 2 - Blood Cycle 2 - Blood Cycle 1 - Blood Cycle 1 - Blood Cycle 1 - Blood	500 500 1000 500 10000 200 200 54.8 500 1 200 550 500 500 2.27	ul u	
Alzheimers disease dementia Behavioral variant frontotemporal dementia Cinically normal Corticobasal syndrome typical or variant Dementia with Lewy bodies FTD/ALS MCI behavior MCI cognitive variants aMCIsd aMCImd naMCIsd naNCImd, Quantity UOM Specimen Count Additonal Stock Age at Baseline CSF Age at Last CSF	811823 811555 8349957 834984 288943.4 288933.5 259131.4 259131.6 429156 811584.1 429162.1 288937 400306.2 400306.2	PDNF087ZAW PDPW717KAQ PDPW717KAQ PDPW717KAQ PDPW717KAQ PDPW717KAQ PDPW717KAQ PDNF087ZAW PDW717KAQ PDPW717KAQ PDPW717KAQ PDPW717KAQ	Choss Shov No No No No No Ves Ves	Sen as WS up Ves Ves Ves Ves Ves Ves Ves Ves Ves Ves	Alzheimers disease dementia Alzheimers disease dementia	CSF CSF CSF PLASMA PBMC PLASMA CSF PLASMA CSF PLASMA PBMC	Cycle 1 - CSF Cycle 1 - CSF Cycle 1 - CSF Cycle 1 - CSF Cycle 1 - Blood Cycle 1 - Blood	500 500 1000 500 200 200 54.8 500 1 200 554.8 500 500 500 2.27 2.081	ul ul ul ul ul ul ul ul ul ul each ul ul ul ul ul ul ul ul ul ul ul ul ul	

By clicking here, the data dictionary box appears.

Data Dictionary

a	⊮ Joi	in Data 🖒 Selection 🗸 📥 Down	load 🗸 🕜 Helo 🛛 📾 Tour			
	GUIE	💋 Data Dictionary		×	Quantity 🖗	Quantity UOM
137140	PDR				500	ul
137102	PDL	Column	Description		500	ul
137136	PDCI	Sample ID	Sample Identifier		500	
137169	PDTF	GUID	Subject Identifier		500	
137580	PDM	ARTFL	Is the subject enrolled in ARTFL?		500	
137891	PDC	LEFFTDS	Is the subject enrolled in LEFFTDS		500	
137647	PDC	Sex	Subject Gender		500	
		Race	Subject Race			
137627	PDN	Hispanic	Subject Ethnicity		500	
137722	PDX2	Deceased	Has the subject died?		500	
175685	PDU	Age at Baseline Blood	Age at baseline blood collection		500	ul
175746	PDB'	Age at Last Blood	Age at last blood collection		500	ul
175780	PDG	Age at Baseline CSF	Age at baseline CSF collection		500	ul
175906	PDBI	Age at Last CSF	Age at last CSF collection		500	
175969	PDN:	Baseline Diagnosis	Subject diagnosis at baseline visit		500	ul
175666	PDRI	Last Diagnosis	Subject's most recent clinical diagnosis		500	
175922	PDG	Relevent Mutation	Is there a relevant mutation in the subject's family?		500	
175980	PDBI	Age at Onset	At what age did the subject begin to show symptoms of FTD?		500	
187010	PDVE	Specimen Type	Sample type collected (rna, pbmc, plasma, buffy coat, serum, csf)		500	
187036	PDF	Visit	Which visit the samples were collected at		500	
		Specimen Quantity	Available sample amount			
187074	PDN.	Quantity UOM	Unit of Measurement (for samples)		500	
186809	PDH	Specimen Count	How many samples are available at NCRAD		500	
186866	PDF\	Additonal Stock	Additional specimens for this sample type from a subject's visit		500	ul
186930	PDX\	Concentration	Concentration for RNA/DNA		500	
189403	PDFF	Concentration UOM	Unit of Measurement (for concentration)		500	ul
189366	PDFF	RIN Value	RNA Integrity Number (RIN Value)		1000	
189375	PDFF	260/280 Ratio	260/280 Ratio		500	
189502	PDE	260/230 Ratio	260/230 Ratio		500	
189598	PDK	rRatio	rRatio		500	ul
189287	PDK	Clotting	Clotted		500	
189345	PDH				1000	ul
189476	PDG				500	ul
187086.2	PDN			Close	2.07	x10^6 cells/1ml

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.

🔊 Dictionary	📕 Join Data 🖒 Selec		wnload 🗸	😢 Help 🔒 Tour				
	GUID	ARTFL 🔶	LEFFTDS	📌 Join External Data	×	¢	Specimen Quantity 🖗	Quantity UOM
137140	PDRP439ND7	Yes	No			1 - Blood	500	ul
137102	PDLH754MYK	Yes	No	Select files to join to the catalog. Onc you can filter results based on the ne	-	1 - Blood	500	ul
137136	PDCM442CZ2	Yes	Yes	Note: You can choose to upload and join	1 - Blood	500	ul	
137169	PDTR790BWE	Yes	No	multiple files but they all must be sel	ected at	1 - Blood	500	ul
137580	PDMG002NWU	Yes	NO	the same time. Once one join operation has been performed, this option will be deactivated. 1		1 - Blood	500	ul
137891	PDCY569XXC	Yes				1 - CSF	500	ul
137647	PDCC634EK2	Yes	Yes	Browse No file selected		1 - CSF	500	ul
137627	PDNN420JUH	Yes	Yes			1 - CSF	500	ul
137722	PDXZ993WHV	Yes	Yes			1 - CSF	500	ul
175685	PDUD490MM4	Yes	No			1 - Blood	500	ul
175746	PDBT334MKW	Yes	No		Close	1 - CSF	500	ul
175780	PDGG098HHY	Yes	Yes	601	0,0	- 1 - CSF	500	ul
175906	PDBN316PWR	Yes	Yes	CSF	Cyc	le 1 - CSF	500	ul
175969	PDNZ271VGZ	Yes	Yes	PLASMA	Cycl	le 1 - Blood	500	ul
175666	PDRN458WAK	Yes	No	PLASMA	Cyc	le 1 - Blood	500	ul

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.

ARTFL_LEFFTDS Catalog	Dictionary	📌 Join Dat	ta 🖡 Selection 🗸	📥 Download 🗸	🕑 Help 🛛 🖨 Tour			Signed in as mkpotter 🕞 Logout
Column Filter Search		GUID	Select All	¢ LEFFTDS	🔶 Specimen Type	🔶 Visit 🔶	Specimen Quantity 🖗 Quantity UOM	🕴 Specimen Count 🛊
	137140	PDRP439	Select None	No	PLASMA	Cycle 1 - Blood	500 ul	10 1
a guid	T 137102	PDLH754	Invert Selection	No	PLASMA	Cycle 1 - Blood	500 ul	10
ARTFL	T 137136	PDCM442CZ	2 Yes	Yes	PLASMA	Cycle 1 - Blood	500 ul	34
LEFFTDS	▼ 137169	PDTR790BW	YE Yes	No	PLASMA	Cycle 1 - Blood	500 ul	9
Sex	T 137580	PDMG002NV	VU Yes	No	PLASMA	Cycle 1 - Blood	500 ul	9
Race	T 137891	PDCY569XXC	C Yes	No	CSF	Cycle 1 - CSF	500 ul	4
Hispanic	T 137647	PDCC634EK2	2 Yes	Yes	CSF	Cycle 1 - CSF	500 ul	20
Deceased	▼ ¹³⁷⁶²⁷	PDNN420JU	H Yes	Yes	CSF	Cycle 1 - CSF	500 ul	20
Age at Baseline Blood	T 137722	PDXZ993WH	IV Yes	Yes	CSF	Cycle 1 - CSF	500 ul	20
Age at Last Blood	175685	PDUD490MM	14 Yes	No	PLASMA	Cycle 1 - Blood	500 ul	9
Baseline Diagnosis	175746	PDBT334MK	W Yes	No	CSF	Cycle 1 - CSF	500 ul	25
Last Diagnosis	175780	PDGG098HH	YYYYYY Yes	Yes	CSF	Cycle 1 - CSF	500 ul	21
Relevent Mutation	175906	PDBN316PW	/R Yes	Yes	CSF	Cycle 1 - CSF	500 ul	26
	175969	PDNZ271VG	Z Yes	Yes	PLASMA	Cycle 1 - Blood	500 ul	10
Age at Onset	175666	PDRN458WA	AK Yes	No	PLASMA	Cycle 1 - Blood	In the botto	m right
Specimen Type	175922	PDGG098HH	YYYYYYYYYYYYYYYYYYY	Yes	PLASMA	Cycle 1 - Blood	III the botto	in ngin
Visit	175980	PDBN316PW	/R Yes	Yes	PLASMA	Cycle 1 - Blood	cornor the	catalog will
Specimen Quantity	187010	PDVE306WB	M Yes	Yes	PLASMA	Cycle 1 - Blood	corner, the	catalog will
Quantity UOM	T 187036	PDFW368HK	W Yes	Yes	PLASMA	Cycle 1 - Blood	chow how r	nany campl
Specimen Count	T 187074	PDNA720RL	9 Yes	Yes	PLASMA	Cycle 1 - Blood	show how r	nany sampi
Additonal Stock	▼ 186809	PDHC477YN	B Yes	Yes	CSF	Cycle 1 - CSF		land have
Age at Baseline CSF	T 186866	PDFW368HK	(W Yes	Yes	CSF	Cycle 1 - CSF	are selected	and now
Age at Last CSF	▼ 186930	PDXW135MV	/3 Yes	Yes	CSF	Cycle 1 - CSF		
Concentration	▼ ¹⁸⁹⁴⁰³	PDFF049NG	V Yes	Yes	CSF	Cycle 1 - CSF	many samp	les are
Concentration UOM	T 189366	PDFP413JH5	5 Yes	Yes	CSF	Cycle 1 - CSF	diamlessed	_
RIN Value	189375	PDFP413JH5	5 Yes	Yes	CSF	Cycle 1 - CSF	displayed.	
260/280 Ratio	189502	PDEM854TXI	H Yes	Yes	PLASMA	Cycle 1 - Blood		
260/230 Ratio	189598	PDKB230ZJP	K Yes	Yes	PLASMA	Cycle 1 - Blood	500 ul	8
	189287	PDKB230ZJP	K Yes	Yes	CSF	Cycle 1 - CSF	500 ul	33
rRatio	189345	PDHU712CE	H Yes	Yes	CSF	Cycle 1 - CSF	1000 ul	0
	189476	PDGD954WZ	ZF Yes	No	PLASMA	Cycle 1 - Blood	500 ul	11
	187086.2	PDNA720RL	9 Yes	Yes	PBMC	Cycle 1 - Blood	2.07 x10^6 cells/1ml	6

By clicking here, selection options appear.

Displaying 4,184 records (12 Selected)

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.

ARTFL_LEFFTDS Catalog	Dictionary	🖋 Join Data	Selection -	📥 Download 🗸	😮 Help 😝 To	ur			Signed in as mkpotter 🕒 Logout
Column Filter Search	1	GUID	🔶 A 🛛 Dov	vnload All	Specimen	Type 🔶 Visit	\$ Specimen Quantity	Quantity UOM 🔶	Specimen Count 🛊
Column Piller Search	137140	PDRP439ND7	Y Dov	vnload Filtered	PLASMA	Cycle 1 - Blood	50	0 ul	10
GUID T	137102	PDLH754MYK	Yı Dov	vnload Selected	PLASMA	Cycle 1 - Blood	50	0 ul	10
ARTFL 1	137136	PDCM442CZ2	Yes	Yes	PLASMA	Cycle 1 - Blood	50	0 ul	34
LEFFTDS 1	137169	PDTR790BWE	Yes	No	PLASMA	Cycle 1 - Blood	50	0 ul	9
Sex 1	137580	PDMG002NWU	Yes	No	PLASMA	Cycle 1 - Blood	50	0 ul	9
Race T	137891	PDCY569XXC	Yes	No	CSF	Cycle 1 - CSF	50	0 ul	4
Hispanic 1	137647	PDCC634EK2	Yes	Yes	CSF	Cycle 1 - CSF	50	0 ul	20
Deceased	137627	PDNN420JUH	Yes	Yes	CSF	Cycle 1 - CSF	50	0 ul	20
Age at Baseline Blood	137722	PDXZ993WHV	Yes	Yes	CSF	Cycle 1 - CSF	50	0 ul	20
Age at Last Blood	175685	PDUD490MM4	Yes	No	PLASMA	Cycle 1 - Blood	50	0 ul	9
Baseline Diagnosis	175746	PDBT334MKW	Yes	No	CSF	Cycle 1 - CSF	50	0 ul	25
Last Diagnosis	175780	PDGG098HHY	Yes	Yes	CSF	Cycle 1 - CSF	50	0 ul	21
Relevent Mutation	175906	PDBN316PWR	Yes	Yes	CSF	Cycle 1 - CSF	50	0 ul	26
Age at Onset	175969	PDNZ271VGZ	Yes	Yes	PLASMA	Cycle 1 - Blood		0 ul	10
Specimen Type	175666	PDRN458WAK	Yes	No	PLASMA	Cycle 1 - Blood		0 ul	9
	175922	PDGG098HHY	Yes	Yes	PLASMA	Cycle 1 - Blood		0 ul	9
Visit	175980	PDBN316PWR	Yes	Yes	PLASMA	Cycle 1 - Blood		0 ul	9
Specimen Quantity	10/010	PDVE306WBM	Yes	Yes	PLASMA	Cycle 1 - Blood		0 ul	6
Quantity UOM	10/000	PDFW368HKW	Yes	Yes	PLASMA	Cycle 1 - Blood		0 ul	6
Specimen Count		PDNA720RL9	Yes	Yes	PLASMA	Cycle 1 - Blood		0 ul	6
Additonal Stock		PDHC477YNB	Yes	Yes	CSF	Cycle 1 - CSF		0 ul	24
Age at Baseline CSF		PDFW368HKW	Yes	Yes	CSF	Cycle 1 - CSF		0 ul	32
Age at Last CSF	186930	PDXW135MV3	Yes	Yes	CSF	Cycle 1 - CSF		0 ul	20
Concentration	189403	PDFF049NGV	Yes	Yes	CSF	Cycle 1 - CSF		0 ul	33
Concentration UOM	189366	PDFP413JH5	Yes	Yes	CSF	Cycle 1 - CSF		0 ul	0
RIN Value	189375	PDFP413JH5	Yes	Yes	CSF	Cycle 1 - CSF		0 ul	17
260/280 Ratio	189502	PDEM854TXH	Yes	Yes	PLASMA	Cycle 1 - Blood		0 ul	10
2 60/230 Ratio	189598	PDKB230ZJK	Yes	Yes	PLASMA	Cycle 1 - Blood		0 ul	8
■ rRatio	189287	PDKB230ZJK	Yes	Yes	CSF	Cycle 1 - CSF		0 ul	33
	189345	PDHU712CEH	Yes	Yes	CSF	Cycle 1 - CSF		0 ul	0
	189476	PDGD954WZF	Yes	No	PLASMA	Cycle 1 - Blood		0 ul	11
	187086.2	PDNA720RL9	Yes	Yes	PBMC	Cycle 1 - Blood	2.0	7 x10^6 cells/1ml	6

By clicking here, download options appear.

Help

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.

By clicking here, the help section will appear and can be explored with its different tabs.

	🔎 Join Data 🔹 Selec	ition 👻 🚨 Do	wnload - 😢 Helt	o 👄 lour		, ,			-	
	GUIE 🕜 Help				General	Filtering	Joining	Ordering	Quantity 🔶	Quantity UOM
137140	PDRI								500	ul
137102	PDL		C					Â	500	ul
137136	PDCI	atalog	; System						500	ul
137169				. Use this catalog to identify availa				he	500	ul
	PDM top of this wi	ndow to read more	detailed help about spe	cific sections of the catalog or clic	k the button i	n the toolbar lat	oeled 'Tour':		500	
	PDC			🖨 Tour					500	
137647	PDC							- 11	500	
	PDN Clicking the t	button will open th	e catalog tour:						500	
	PDX2								500	
	PDU		Welcome						500	
175746	PDB		Please ta	ake a short tour to familiarize					500	ul
175780	PDG		yourself	with the application					500	ul
	PDBI		David	Neut					500	
175969	PDN		« Prev	Next » End tou					500	ul
	PDRI		Urine						500	
175922	PDG Click "Next" and start usin		planations of all the fun	ctionality of the catalog. You may	click "End To	our" at any time	to end the tour		500	ul
175980	PDBI	g the catalog.							500	ul
187010	PDVE Catalog	g Sectio	าร						500	ul
187036	PDF			han the side han the catalon, and t	he footer. Far	h cention is eve	lained helow	-	500	ul
187074	PDN/								500	ul
	PDH							Close	500	
	PDF								500	
					Cycle 1 - CS					
189403	PDFF049NGV	Yes	Yes	CSF	Cycle 1 - CS	F			500	ul
	PDFP413JH5				Cycle 1 - CS					
189375	PDFP413JH5	Yes	Yes	CSF	Cycle 1 - CS	F			500	ul
189502	PDEM854TXH	Yes	Yes	PLASMA	Cycle 1 - Blo	ood			500	ul

Tour

This portion of the catalog walks researchers through the dataset step by step, such as explaining how to filter for specimen criteria or how to join data.

By clicking here, the tour will begin to walk through the catalog functions one by one.

ARTFL_LEFFTDS Catalog	Filter Sidebar		ection 🚽 📥 De	ownload 🚽 🕜 Hel	lp 😝 Tour	
s D		been filtered down to ns with an 's' in the	ARTFL	LEFFTDS	Specimen Type	Visit 🔶
	column name.		Yes	No	PLASMA	Cycle 1 - Blood
LEFFTDS T	« Prev Next »	End tour	Yes	No	PLASMA	Cycle 1 - Blood
Sex T		Lind toda	Yes	Yes	PLASMA	Cycle 1 - Blood
Hispanic T	137169	PDTR790BWE	Yes	No	PLASMA	Cycle 1 - Blood
Deceased T	137580	PDMG002NWU	Yes	No	PLASMA	Cycle 1 - Blood
Age at Baseline Blood	137891	PDCY569XXC	Yes	No	CSF	Cycle 1 - CSF
Age at Last Blood	137647	PDCC634EK2	Yes	Yes	CSF	Cycle 1 - CSF
Baseline Diagnosis	137627	PDNN420JUH	Yes	Yes	CSF	Cycle 1 - CSF
Last Diagnosis	137722	PDXZ993WHV	Yes	Yes	CSF	Cycle 1 - CSF
Age at Onset	175685	PDUD490MM4	Yes	No	PLASMA	Cycle 1 - Blood
Specimen Type	175746	PDBT334MKW	Yes	No	CSF	Cycle 1 - CSF
Visit T	175780	PDGG098HHY	Yes	Yes	CSF	Cycle 1 - CSF
Specimen Quantity	175906	PDBN316PWR	Yes	Yes	CSF	Cycle 1 - CSF
· · · ·	175969	PDNZ271VGZ	Yes	Yes	PLASMA	Cycle 1 - Blood
Specimen Count	175666	PDRN458WAK	Yes	No	PLASMA	Cycle 1 - Blood
Additonal Stock T	175922	PDGG098HHY	Yes	Yes	PLASMA	Cycle 1 - Blood
Age at Baseline CSF	175980	PDBN316PWR	Yes	Yes	PLASMA	Cycle 1 - Blood
Age at Last CSF	187010	PDVE306WBM	Yes	Yes	PLASMA	Cycle 1 - Blood
	187036	PDFW368HKW	Yes	Yes	PLASMA	Cycle 1 - Blood
	187074	PDNA720RL9	Yes	Yes	PLASMA	Cycle 1 - Blood
	186809	PDHC477YNB	Yes	Yes	CSF	Cycle 1 - CSF
	186866	PDFW368HKW	Yes	Yes	CSF	Cycle 1 - CSF

Link to NIAGADS

🏦 👬 N	CRAD			\$ Donate	Contact Q Search
Home	About NCRAD	Information For Families	Biospecimens & Data	Banking with NCRAD	Tools for Active Studies

needs. You can reach us at: alzstudy@iu.edu or 800-526-2839.

Catalog Selections

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

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

 Contact us! Please use your downloaded file to work with your statistician to determine feasibility for your research project. When you have selected, please contact NCRAD to work through the request process. You can reach us at airstudy@uu.edu or 800-526-5289. 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 hestate to contact us at any point in the process to ask any questions, provide comments, or talk through your sample

Late-Onset Alzheimer's Disease Family Study

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
100604	1006	Male	Missing/Unknown	Not demented, no neurological disorder		NG00020, NG00032
100605	1006	Female	Missing/Unknown	Possible AD	65	NG00020, NG00032

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

Link at NACC to NCRAD

103			
FTLD type, most recent FTLD module visit	0	0	
+ Genetics			
Available as:	ROW	COLUMN	PAGE
APOE genotype available at NACC	0	0	0
APOE genotype	0	0	
Number of APOE e4 alleles	0	0	0
Subject/family has known AD Mutation (APP, PS1, PS2)	0	0	
Subject/family has known FTLD mutation (MAPT, PGRN, C9ORF72, FUS)	0	0	
Genomic data/DNA samples available outside of NACC (ADGC, NIAGADS, NCRAD)	۲	0	

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, <u>please submit a custom data request</u>

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	11057
Genotype data available at NIAGADS	3285
Exome sequencing data available from dbGaP / ADSP	1867
DNA sample available at NCRAD	22683
Total UDS subjects	35768

Data from <u>Additional genetic data</u> Created on September 1, 2017 Data as of June 1, 2017 www.alz.washington.edu

Link at NIAGADS to NCRAD

NIAGADS INQuery 0 Allowed Dataset: ALL Logged in as mainuser (Back-end User) | Logout Query By () By SNP () By Position C Reset Commit Export Q Search Find Genotypes Markers Table List Fields Commands subject id NEAGADS ID niagads data norad sample cohort dx. SEXrace ethnicity braak autopsy appe ITITISA age at onset Uncheck all T [OR] Filter Yes Yes ✓ ▼NIAGADS ID Yes ST subject id Yes ✓ ▼ niagads_datasetid Yes Incrad sample Yes C T cohort Yes # Tax Yes ST Stx Yes race Yes Settricity Yes 2 T acos Yes M T mmse Yes T braak Yes ✓ T autopsy Yes V Tage at onset Yes 🗹 🝸 age last exam Yes 603 Yes Yes Yes Yes No No No 1441 No No No No CALINE No No Total Rows: 11226 Stage 1>>

Publications using NCRAD Samples

- 500 publications to date using NCRAD samples
- <u>https://ncrad.org/publications.html</u>



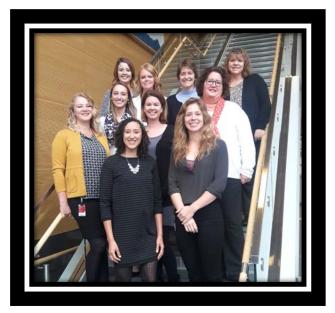
M Publications

Samples and/or data from the National Cell Repository for Alzheimer's Disease (NCRAD), which receives government support under a cooperative agreement grant (U24 AG21886) awarded by the National Institute on Aging (NIA), were utilized by the following publications. We thank contributors who collected samples and data used in these studies, as well as patients and their families, whose help and participation made this work possible.

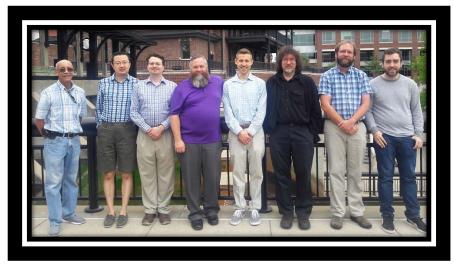
Please feel free to click through the publications below. We have made available all publications which have been released publicly. Those which are not downloadable will be made available as soon as possible.

Filter Publications		Sort Pu	blications	ons		
Q Search		Title	Author	Journal	Year	
Vardarajan, B. and K. Faber, Age-specific incidence rate for dementia Alzheimer's disease in NIA-LOAD/NCRAD and EFIGA families. 201			De	tails Down	nload	
Wang, L., et al., Rarity of the alzheimer diseaseå€"protective app a67 united states. JAMA Neurology, 2015. 72(2): p. 209-216.	3t var	iant in th	e De	tails Down	load	
Wang, H.F., et al., Effect of EPHA1 genetic variation on cerebrospinal neuroimaging biomarkers in healthy, mild cognitive impairment Alzheimer's disease cohorts. J Alzheimers Dis, 2015, 44(1): p. 115	and	and	De	tails Dowr	hload	
Vardarajan, B.N., et al., Coding mutations in SORL1 and Alzheimer di: Neurology, 2015. 77(2): p. 215-227.	sease.	. Annals (of De	tails Down	load	
Sun, Y., et al., An Integrated Bioinformatics Approach for Identifying Markers that Predict Cerebrospinal Fluid Biomarker p-tau181/Ak in APOE4-Negative Mild Cognitive Impairment Patients. J Alzhein 26: p. 26.	oeta1-	42 Ratio		tails Dowr	nload	
Shi, J., et al., Studying ventricular abnormalities in mild cognitive imp- hyperbolic Ricci flow and tensor-based morphometry. Neuroima p. 1-20.				tails Dowr	nload	
Nho, K., et al., Comprehensive Gene- and Pathway-Based Analysis of Symptoms in Older Adults. Journal of Alzheimer's Disease, 2015.		essive	De	tails Dowr	nload	
Nho, K., et al., Protective variant for hippocampal atrophy identified l sequencing. Annals of Neurology, 2015. 77(3): p. 547-552.	by wh	ole exorr	ne De	tails Dowr	nload	

Our Team









Acknowledgement

- NIA
- Alzheimer Disease Centers
- NACC
- NIAGADS
- ADGC
- Studies contributing samples to NCRAD

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Funding: U24AG21886