NCRAD

May 2018

Annual ADC Conference Calls

THANK YOU to everyone that participated in an annual call with us this year. We always appreciate the opportunity to talk to each Center and learn about ways to make sample collection and shipping as well as the return of data easier for you.

ADC Samples to NCRAD

NCRAD continues to accept samples from all subjects with an MDS or UDS at NACC. NACC has updated the lists of samples for submission to NCRAD as of March 2018. The lists of subjects eligible to send to NCRAD have now been separated into "active" participants and "inactive" participants.

https://www.alz.washington.edu/GWASPHASE2/gwasphase2.html

While fresh whole blood samples are preferred, NCRAD also accepts frozen buffy coats, transferred DNA and brain tissue samples. Our goal is to have a DNA sample banked and available from all subjects with a MDS or UDS.

NCRAD Web Tools

Please remember to visit the following page on the NCRAD website to learn about sample requirements if you are interested in submitting samples: https://www.ncrad.org/sample_requirements.html.

Also, if you are interested in requesting samples from NCRAD, please visit this page for information about samples currently available for distribution: https://www.ncrad.org/accessing_data.html.

NCRAD Webinars

NCRAD is hosting two 30 minute live webinars in May.

May 8, 2018, 3pm ET: We will be describing our NCRAD services for **banking samples,** followed by a question and answer session. To register for this session, please visit this link: https://iu.zoom.us/webinar/register/WN_0rM4iidwQGu7Uy1vg1UKHg.

May 11, 2018, 2pm ET: We will be describing the process of **requesting samples,** followed by a question and answer session. To register for this session, please visit this link: https://iu.zoom.us/webinar/register/WN_4mTK9osFT1i65xuy0aTiWQ.

Once you have registered, you will receive a confirmation email containing information about joining the webinar. We will be recording these sessions as well and posting them on our website for review later if you are not able to attend the live sessions. An announcement will be distributed when the recordings are posted.

NCRAD IPSC Initiative

Researchers funded by NIH are required to share the iPSC and fibroblast lines they develop with other researchers. There can be a significant burden in terms of cost and time to expand the lines, perform extensive characterization, and then distribute them to other researchers. NCRAD is expanding support for the distribution of new cell lines to meet this growing need. We will begin to receive, expand, and distribute iPSC and fibroblast lines later this year. If you have lines you would like to centrally bank, please contact NCRAD to discuss this initiative further.

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 or visit our web-site: www.ncrad.org Thanks!!

New ADSP, ADGC, and IGAP papers published

Three new papers of interest were published recently. The first, an ADSP paper titled "Functional Annotation of genomic variants in studies of Late-Onset Alzheimer's Disease" (Butkiewicz et al.), was published in Bioinformatics in March. Data from this project is stored at NIAGADS, with the accession number NG00061. The dataset can be used to annotate single variant association results, or to generate variant groupings by functional annotation for use in SeqMeta and similar tools.

A second ADSP paper, "Genetic Variation in Genes Underlying Diverse Dementias May Explain a Small Proportion of Cases in the Alzheimer's Disease Sequencing Project" (Blue et al.) was published in Dementia and Geriatric Cognitive Disorders in April.

Also released in April, the Alzheimer's Disease Genetics Consortium (ADGC) and International Genomics of Alzheimer's Project (IGAP) published "Meta-Analysis of genetic association with diagnosed Alzheimer's disease identifies novel risk loci and implicates Abeta, Tau, immunity and lipid processing" (Kunkle et al.). Their meta-analysis is published in bioRxiv.

NIAGADS Data Sharing Service to be released this summer

The new NIAGADS Data Sharing Service (DSS) is in final stages of production and is set to be released this summer. NIAGADS will have Federal Information Security Management Act compliance and user authentication processes in place. The NIAGADS DSS facilitates the deposition and sharing of genomic data from ADSP and other NIA funded AD genomic studies with approved users in the research community at large. All new and existing ADSP data are being mapped to the latest GRCh38 reference assembly for human genome and will be distributed through the DSS for qualified investigators. GRCh37 data will continue to be stored and accessed through dbGaP. NIAGADS will make an announcement with an official release date shortly.

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

NG00061 – Functional Annotation of genomic variants in studies of LOAD

This reference dataset includes annotations for the ADSP WES Release 3 (Atlas Only) Dataset, WGS V1 Dataset (phs000572.v7.p4). The dataset can be used to annotate single variant association results, or to generate variant groupings by functional annotation for use in SeqMeta and similar tools. No formal application is required. Download dataset directly from the NIAGADS website.