

# ADSP Publication List

2023

## Diverse Ancestries

### African/African American

#### U01 AG052410- Replication and Extension of ADSP Discoveries in African-Americans

1. Bouzid H, Belk JA, Jan M, et al. Clonal hematopoiesis is associated with protection from Alzheimer's disease. *Nat Med.* 2023 Jul;29(7):1662–1670. doi: 10.1038/s41591-023-02397-2 PMID: 37322115; <https://www.ncbi.nlm.nih.gov/pubmed/37322115> PMCID: PMC10353941
2. Byfield G, Starks TD, Luther R, et al. Leveraging African American family connectors for Alzheimer's disease genomic studies. *Alzheimers Dement.* 2023 May 22; doi: 10.1002/alz.13106 PMID: 37212603; <https://www.ncbi.nlm.nih.gov/pubmed/37212603>
3. Celis K, Moreno MDMM, Rajabli F, et al. Ancestry-related differences in chromatin accessibility and gene expression of APOE  $\epsilon$ 4 are associated with Alzheimer's disease risk. *Alzheimers Dement.* 2023 Apr 10; doi: 10.1002/alz.13075 PMID: 37037656; <https://www.ncbi.nlm.nih.gov/pubmed/37037656>
4. Fan K, Francis L, Aslam MM, et al. Investigation of the independent role of a rare APOE variant (L28P; APOE\*4Pittsburgh) in late-onset Alzheimer disease. *Neurobiol Aging.* 2023 Feb;122:107–111. doi: 10.1016/j.neurobiolaging.2022.11.007 PMID: 36528961; <https://www.ncbi.nlm.nih.gov/pubmed/36528961> PMCID: PMC9839598
5. Horimoto ARVR, Boyken LA, Blue EE, et al. Admixture mapping implicates 13q33.3 as ancestry-of-origin locus for Alzheimer disease in Hispanic and Latino populations. *HGG Adv.* 2023 Jul 13;4(3):100207. doi: 10.1016/j.xhgg.2023.100207 PMID: 37333771; <https://www.ncbi.nlm.nih.gov/pubmed/37333771> PMCID: PMC10276158
6. Rajabli F, Tosto G, Hamilton-Nelson KL, et al. Admixture mapping identifies novel Alzheimer's disease risk regions in African Americans. *Alzheimers Dement.* 2023 Jun;19(6):2538–2548. doi: 10.1002/alz.12865 PMID: 36539198; <https://www.ncbi.nlm.nih.gov/pubmed/36539198> PMCID: PMC10272044
7. Reyes-Dumeyer D, Faber K, Vardarajan B, et al. The National Institute on Aging Late-Onset Alzheimer's Disease Family Based Study: A resource for genetic discovery. *Alzheimers Dement.* 2022 Oct;18(10):1889–1897. doi: 10.1002/alz.12514 PMID: 34978149; <https://www.ncbi.nlm.nih.gov/pubmed/34978149> PMCID: PMC9250549

#### R01AG072547 - The Origins of Alzheimer Disease in African Americans

8. Nuytemans K, Lipkin Vasquez M, Wang L, *et al.* Identifying differential regulatory control of APOE  $\epsilon$ 4 on African versus European haplotypes as potential therapeutic targets. *Alzheimer's Dement.* 2022 Oct;18(10):1930–1942. doi: [10.1002/alz.12534](https://doi.org/10.1002/alz.12534) PMID: 34978147; <https://www.ncbi.nlm.nih.gov/pubmed/34978147> PMCID: PMC9250552
9. Reitz C, Pericak-Vance MA, Foroud T, Mayeux R. A global view of the genetic basis of Alzheimer disease. *Nat Rev Neurol.* 2023 May;19(5):261–277. doi: [10.1038/s41582-023-00789-z](https://doi.org/10.1038/s41582-023-00789-z) PMID: 37024647; <https://www.ncbi.nlm.nih.gov/pubmed/37024647>
10. Rogers A, Chung A, Seixas A, Chung D, Zizi F, Jean-Louis G. Strategies to Engage Blacks in Sleep Medicine: Lessons Learned from Three Studies Applying Community-Based Participatory Research Principles. *J Sleep Disord Ther.* 2023;12(4):425. PMID: 37425370; <https://www.ncbi.nlm.nih.gov/pubmed/37425370> PMCID: PMC10327646

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Oct 2022-Aug 2023

## Amish

### **R01 AG058066 - Protective Genetic Variants for Alzheimer Disease in the Amish**

11. Prough MB, Zaman A, Caywood LJ, *et al.* Visuospatial and Verbal Memory Differences in Amish Individuals With Alzheimer Disease and Related Dementias. *Alzheimer Dis Assoc Disord.* 2023 Sep 1;37(3):195–199. doi: [10.1097/WAD.0000000000000570](https://doi.org/10.1097/WAD.0000000000000570) PMID: 37561946; <https://www.ncbi.nlm.nih.gov/pubmed/37561946>
12. Ramos J, Caywood LJ, Prough MB, *et al.* Genetic variants in the SHISA6 gene are associated with delayed cognitive impairment in two family datasets. *Alzheimers Dement.* 2023 Feb;19(2):611–620. doi: [10.1002/alz.12686](https://doi.org/10.1002/alz.12686) PMID: 35490390; <https://www.ncbi.nlm.nih.gov/pubmed/35490390> PMCID: PMC9622429
13. Zaman A, Caywood L, Prough M, *et al.* Psychometric approaches to defining cognitive phenotypes in the Old Order Amish. *Int J Geriatr Psychiatry.* 2023 Apr;38(4):e5903. doi: [10.1002/gps.5903](https://doi.org/10.1002/gps.5903) PMID: 36929524; <https://www.ncbi.nlm.nih.gov/pubmed/36929524>

## India

### **U01 AG064948 - Harmonized Diagnostic Assessment of Dementia (DAD) for Longitudinal Aging Study of India (LASI)-Genomic Study**

14. Banerjee J, Petrosyan S, Rao AR, *et al.* Cohort Profile: Real-Time Insights of COVID-19 in India (RTI COVID-India). *BMC Public Health.* 2023 Feb 9;23(1):292. doi: [10.1186/s12889-023-15084-1](https://doi.org/10.1186/s12889-023-15084-1) PMID: 36759802; <https://www.ncbi.nlm.nih.gov/pubmed/36759802> PMCID: PMC9909130
15. Jin H, Crimmins E, Langa KM, Dey AB, Lee J. Estimating the Prevalence of Dementia in India Using a Semi-Supervised Machine Learning Approach. *Neuroepidemiology.* 2023;57(1):43–50. doi: [10.1159/000528904](https://doi.org/10.1159/000528904) PMID: 36617419; <https://www.ncbi.nlm.nih.gov/pubmed/36617419> PMCID: PMC10038923
16. Lee J, Meijer E, Langa KM, *et al.* Prevalence of dementia in India: National and state estimates from a nationwide study. *Alzheimers Dement.* 2023 Jul;19(7):2898–2912. doi: [10.1002/alz.12928](https://doi.org/10.1002/alz.12928) PMID: 36637034; <https://www.ncbi.nlm.nih.gov/pubmed/36637034> PMCID: PMC10338640
17. Lee J, Petrosyan S, Khobragade P, *et al.* Deep phenotyping and genomic data from a nationally representative study on dementia in India. *Sci Data.* 2023 Jan 20;10(1):45. doi: [10.1038/s41597-023-01941-6](https://doi.org/10.1038/s41597-023-01941-6) PMID: 36670106; <https://www.ncbi.nlm.nih.gov/pubmed/36670106> PMCID: PMC9852797
18. Nichols E, Ng DK, Hayat S, *et al.* Measurement differences in the assessment of functional limitations for cognitive impairment classification across geographic locations. *Alzheimers Dement.* 2023 May;19(5):2218–2225. doi: [10.1002/alz.12994](https://doi.org/10.1002/alz.12994) PMID: 36807779; <https://www.ncbi.nlm.nih.gov/pubmed/36807779> PMCID: PMC10182237

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## Korea

### U01 AG072177 - KBASE2: Korean Brain Aging Study, Longitudinal Endophenotypes, and Systems Biology

19. Byun MS, Chang M, Yi D, *et al.* Association of Central Auditory Processing Dysfunction With Preclinical Alzheimer's Disease. *Otolaryngol Head Neck Surg.* 2023 Jul;169(1):112–119. doi: [10.1002/ohn.228](https://doi.org/10.1002/ohn.228) PMID: 36939433; <https://www.ncbi.nlm.nih.gov/pubmed/36939433>
20. Coleman ME, Roessler MEH, Peng S, *et al.* Social enrichment on the job: Complex work with people improves episodic memory, promotes brain reserve, and reduces the risk of dementia. *Alzheimers Dement.* 2023 Jun;19(6):2655–2665. doi: [10.1002/alz.13035](https://doi.org/10.1002/alz.13035) PMID: 37037592; <https://www.ncbi.nlm.nih.gov/pubmed/37037592> PMCID: PMC10272079
21. Grothe MJ, Moscoso A, Silva-Rodríguez J, *et al.* Differential diagnosis of amnesic dementia patients based on an FDG-PET signature of autopsy-confirmed LATE-NC. *Alzheimers Dement.* 2023 Apr;19(4):1234–1244. doi: [10.1002/alz.12763](https://doi.org/10.1002/alz.12763) PMID: 35971593; <https://www.ncbi.nlm.nih.gov/pubmed/35971593> PMCID: PMC9929029
22. Hirschfeld LR, Risacher SL, Nho K, Saykin AJ. Myelin repair in Alzheimer's disease: a review of biological pathways and potential therapeutics. *Transl Neurodegener.* 2022 Oct 26;11(1):47. doi: [10.1186/s40035-022-00321-1](https://doi.org/10.1186/s40035-022-00321-1) PMID: 36284351; <https://www.ncbi.nlm.nih.gov/pubmed/36284351> PMCID: PMC9598036
23. Hu F, Chen AA, Horng H, *et al.* Image harmonization: A review of statistical and deep learning methods for removing batch effects and evaluation metrics for effective harmonization. *Neuroimage.* 2023 Jul 1;274:120125. doi: [10.1016/j.neuroimage.2023.120125](https://doi.org/10.1016/j.neuroimage.2023.120125) PMID: 37084926; <https://www.ncbi.nlm.nih.gov/pubmed/37084926> PMCID: PMC10257347
24. Jeon SY, Byun MS, Yi D, *et al.* Circadian rest-activity rhythm and longitudinal brain changes underlying late-life cognitive decline. *Psychiatry Clin Neurosci.* 2023 Apr;77(4):205–212. doi: [10.1111/pcn.13521](https://doi.org/10.1111/pcn.13521) PMID: 36527292; <https://www.ncbi.nlm.nih.gov/pubmed/36527292> PMCID: PMC10360409
25. Jung JH, Kim G, Byun MS, *et al.* Gut microbiome alterations in preclinical Alzheimer's disease. *PLoS One.* 2022;17(11):e0278276. doi: [10.1371/journal.pone.0278276](https://doi.org/10.1371/journal.pone.0278276) PMID: 36445883; <https://www.ncbi.nlm.nih.gov/pubmed/36445883> PMCID: PMC9707757
26. Kang KM, Byun MS, Yi D, *et al.* Enlarged perivascular spaces are associated with decreased brain tau deposition. *CNS Neurosci Ther.* 2023 Feb;29(2):577–586. doi: [10.1111/cns.14040](https://doi.org/10.1111/cns.14040) PMID: 36468423; <https://www.ncbi.nlm.nih.gov/pubmed/36468423> PMCID: PMC9873511
27. Kim JW, Byun MS, Lee JH, *et al.* Spouse bereavement and brain pathologies: A propensity score matching study. *Psychiatry Clin Neurosci.* 2022 Oct;76(10):490–504. doi: [10.1111/pcn.13439](https://doi.org/10.1111/pcn.13439) PMID: 35751876; <https://www.ncbi.nlm.nih.gov/pubmed/35751876> PMCID: PMC9796777
28. Kim JW, Byun MS, Yi D, *et al.* Serum Adiponectin and In Vivo Brain Amyloid Deposition in Cognitively Normal Older Adults: A Cohort Study. *Aging Dis.* 2023 Jun 1;14(3):904–918. doi: [10.14336/AD.2022.1118](https://doi.org/10.14336/AD.2022.1118) PMID: 37191420; <https://www.ncbi.nlm.nih.gov/pubmed/37191420> PMCID: PMC10187695
29. Kim JP, Kim BH, Bice PJ, *et al.* Integrative Co-methylation Network Analysis Identifies Novel DNA Methylation Signatures and Their Target Genes in Alzheimer's Disease. *Biol Psychiatry.* 2023 May 1;93(9):842–851. doi: [10.1016/j.biopsych.2022.06.020](https://doi.org/10.1016/j.biopsych.2022.06.020) PMID: 36150909; <https://www.ncbi.nlm.nih.gov/pubmed/36150909> PMCID: PMC9789210

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30. Kim T, Yi D, Byun MS, *et al.* Synergistic interaction of high blood pressure and cerebral beta-amyloid on tau pathology. *Alzheimers Res Ther.* 2022 Dec 24;14(1):193. doi: [10.1186/s13195-022-01149-7](https://doi.org/10.1186/s13195-022-01149-7) PMID: 36566225; <https://www.ncbi.nlm.nih.gov/pubmed/36566225> PMCID: PMC9789538
31. Lee S, Byun MS, Yi D, *et al.* Body mass index and two-year change of in vivo Alzheimer's disease pathologies in cognitively normal older adults. *Alzheimers Res Ther.* 2023 Jun 13;15(1):108. doi: [10.1186/s13195-023-01259-w](https://doi.org/10.1186/s13195-023-01259-w) PMID: 37312229; <https://www.ncbi.nlm.nih.gov/pubmed/37312229> PMCID: PMC10262499
32. Moon SW, Byun MS, Yi D, *et al.* Low Ankle-Brachial Index Relates to Alzheimer-Signature Cerebral Glucose Metabolism in Cognitively Impaired Older Adults. *J Alzheimers Dis.* 2023;93(1):87–95. doi: [10.3233/JAD-220911](https://doi.org/10.3233/JAD-220911) PMID: 36938732; <https://www.ncbi.nlm.nih.gov/pubmed/36938732> PMCID: PMC10200182
33. Moutinho M, Coronel I, Tsai AP, *et al.* TREM2 splice isoforms generate soluble TREM2 species that disrupt long-term potentiation. *Genome Med.* 2023 Feb 20;15(1):11. doi: [10.1186/s13073-023-01160-z](https://doi.org/10.1186/s13073-023-01160-z) PMID: 36805764; <https://www.ncbi.nlm.nih.gov/pubmed/36805764> PMCID: PMC9940368
34. Oatman SR, Reddy JS, Quicksall Z, *et al.* Genome-wide association study of brain biochemical phenotypes reveals distinct genetic architecture of Alzheimer's disease related proteins. *Mol Neurodegener.* 2023 Jan 7;18(1):2. doi: [10.1186/s13024-022-00592-2](https://doi.org/10.1186/s13024-022-00592-2) PMID: 36609403; <https://www.ncbi.nlm.nih.gov/pubmed/36609403> PMCID: PMC9825010
35. Park JC, Lim H, Byun MS, *et al.* Sex differences in the progression of glucose metabolism dysfunction in Alzheimer's disease. *Exp Mol Med.* 2023 May;55(5):1023–1032. doi: [10.1038/s12276-023-00993-3](https://doi.org/10.1038/s12276-023-00993-3) PMID: 37121979; <https://www.ncbi.nlm.nih.gov/pubmed/37121979> PMCID: PMC10238450
36. Pyun JM, Park YH, Wang J, *et al.* Aberrant GAP43 Gene Expression Is Alzheimer Disease Pathology-Specific. *Ann Neurol.* 2023 May;93(5):1047–1048. doi: [10.1002/ana.26637](https://doi.org/10.1002/ana.26637) PMID: 36897291; <https://www.ncbi.nlm.nih.gov/pubmed/36897291>
37. Pyun JM, Park YH, Wang J, *et al.* Transcriptional risk scores in Alzheimer's disease: From pathology to cognition. *Alzheimers Dement.* 2023 Aug 10; doi: [10.1002/alz.13406](https://doi.org/10.1002/alz.13406) PMID: 37563770; <https://www.ncbi.nlm.nih.gov/pubmed/37563770>
38. Swinford CG, Risacher SL, Vosmeier A, *et al.* Amyloid and tau pathology are associated with cerebral blood flow in a mixed sample of nondemented older adults with and without vascular risk factors for Alzheimer's disease. *Neurobiol Aging.* 2023 Oct;130:103–113. doi: [10.1016/j.neurobiolaging.2023.06.014](https://doi.org/10.1016/j.neurobiolaging.2023.06.014) PMID: 37499587; <https://www.ncbi.nlm.nih.gov/pubmed/37499587>
39. Swinford CG, Risacher SL, Wu YC, *et al.* Altered cerebral blood flow in older adults with Alzheimer's disease: a systematic review. *Brain Imaging Behav.* 2023 Apr;17(2):223–256. doi: [10.1007/s11682-022-00750-6](https://doi.org/10.1007/s11682-022-00750-6) PMID: 36484922; <https://www.ncbi.nlm.nih.gov/pubmed/36484922> PMCID: PMC10117447
40. Tometch DB, Mosher CE, Cyders M, *et al.* An Examination of the Longitudinal Relationship Between Cognitive Function and Physical Activity Among Older Breast Cancer Survivors in the Thinking and Living With Cancer Study. *Ann Behav Med.* 2023 Apr 5;57(3):237–248. doi: [10.1093/abm/kaac048](https://doi.org/10.1093/abm/kaac048) PMID: 36356044; <https://www.ncbi.nlm.nih.gov/pubmed/36356044> PMCID: PMC10074030

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## **U01AG062602 - Genetic Studies of Alzheimer Disease in Koreans**

41. Chung J, Sahelijo N, Maruyama T, *et al.* Alzheimer's disease heterogeneity explained by polygenic risk scores derived from brain transcriptomic profiles. *Alzheimers Dement.* 2023 May 11; doi: [10.1002/alz.13069](https://doi.org/10.1002/alz.13069) PMID: 37166019; <https://www.ncbi.nlm.nih.gov/pubmed/37166019>
42. Jun GR, You Y, Zhu C, *et al.* Protein phosphatase 2A and complement component 4 are linked to the protective effect of APOE  $\epsilon$ 2 for Alzheimer's disease. *Alzheimers Dement.* 2022 Nov;18(11):2042–2054. doi: [10.1002/alz.12607](https://doi.org/10.1002/alz.12607) PMID: 35142023; <https://www.ncbi.nlm.nih.gov/pubmed/35142023> PMCID: PMC9360190
43. Kang M, Ang TFA, Devine SA, *et al.* A genome-wide search for pleiotropy in more than 100,000 harmonized longitudinal cognitive domain scores. *Mol Neurodegener.* 2023 Jun 22;18(1):40. doi: [10.1186/s13024-023-00633-4](https://doi.org/10.1186/s13024-023-00633-4) PMID: 37349795; <https://www.ncbi.nlm.nih.gov/pubmed/37349795> PMCID: PMC10286470
44. Le Guen Y, Raulin AC, Logue MW, *et al.* Association of African Ancestry-Specific APOE Missense Variant R145C With Risk of Alzheimer Disease. *JAMA.* 2023 Feb 21;329(7):551–560. doi: [10.1001/jama.2023.0268](https://doi.org/10.1001/jama.2023.0268) PMID: 36809323; <https://www.ncbi.nlm.nih.gov/pubmed/36809323> PMCID: PMC9945061
45. Lee Y, Park JY, Lee JJ, *et al.* Heritability of cognitive abilities and regional brain structures in middle-aged to elderly East Asians. *Cereb Cortex.* 2023 May 9;33(10):6051–6062. doi: [10.1093/cercor/bhac483](https://doi.org/10.1093/cercor/bhac483) PMID: 36642501; <https://www.ncbi.nlm.nih.gov/pubmed/36642501> PMCID: PMC10183741
46. Li D, Farrell JJ, Mez J, *et al.* Novel loci for Alzheimer's disease identified by a genome-wide association study in Ashkenazi Jews. *Alzheimers Dement.* 2023 Jun 1; doi: [10.1002/alz.13117](https://doi.org/10.1002/alz.13117) PMID: 37260021; <https://www.ncbi.nlm.nih.gov/pubmed/37260021>
47. Marini S, Chung J, Han X, *et al.* Pleiotropy analysis between lobar intracerebral hemorrhage and CSF  $\beta$ -amyloid highlights new and established associations. *Int J Stroke.* 2023 Aug;18(7):804–811. doi: [10.1177/17474930231155816](https://doi.org/10.1177/17474930231155816) PMID: 36705426; <https://www.ncbi.nlm.nih.gov/pubmed/36705426>

## **R56AG069130 - Asian Cohort for Alzheimers Disease (ACAD) (FUS2.0)**

48. Gao Y, Jia Z, Zhao L, Han S. The Effect of Activity Participation in Middle-Aged and Older People on the Trajectory of Depression in Later Life: National Cohort Study. *JMIR Public Health Surveill.* 2023 Mar 23;9:e44682. doi: [10.2196/44682](https://doi.org/10.2196/44682) PMID: 36951932; <https://www.ncbi.nlm.nih.gov/pubmed/36951932> PMCID: PMC10131905
49. Lee H, Ha H, Yim S, *et al.* Using community-based geographical information system (GIS) to recruit older Asian Americans in an Alzheimer's disease study. *BMJ Open.* 2023 Aug 3;13(8):e072761. doi: [10.1136/bmjopen-2023-072761](https://doi.org/10.1136/bmjopen-2023-072761) PMID: 37536975; <https://www.ncbi.nlm.nih.gov/pubmed/37536975> PMCID: PMC10401260
50. Martinez AE, Weissberger G, Kuklenyik Z, *et al.* The small HDL particle hypothesis of Alzheimer's disease. *Alzheimers Dement.* 2023 Feb;19(2):391–404. doi: [10.1002/alz.12649](https://doi.org/10.1002/alz.12649) PMID: 35416404; <https://www.ncbi.nlm.nih.gov/pubmed/35416404>
51. Miyawaki CE, Garcia JM, Nguyen KN, Park VT, Markides KS. Multiple Chronic Conditions and Disability among Vietnamese Older Adults: Results from the Vietnamese Aging and Care Survey



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(VACS). *J Racial Ethn Health Disparities*. 2023 May 30; doi: [10.1007/s40615-023-01652-z](https://doi.org/10.1007/s40615-023-01652-z) PMID: 37249829; <https://www.ncbi.nlm.nih.gov/pubmed/37249829>

52. Ta Park VM, Ly Q, von Oppenfeld J, *et al*. A scoping review of dementia caregiving for Korean Americans and recommendations for future research. *Clin Gerontol*. 2023;46(2):223–239. doi: [10.1080/07317115.2022.2133907](https://doi.org/10.1080/07317115.2022.2133907) PMID: 36268979; <https://www.ncbi.nlm.nih.gov/pubmed/36268979> PMCID: PMC9928901

## CADRE

### U01AG058654 - The Alzheimer Disease Sequence Analysis Collaborative

53. Bai H, Naj AC, Benchek P, *et al*. A haptoglobin (HP) structural variant alters the effect of APOE alleles on Alzheimer’s disease. *Alzheimer’s Dement*. 2023 Apr 12; doi: [10.1002/alz.13050](https://doi.org/10.1002/alz.13050) PMID: 37051669; <https://www.ncbi.nlm.nih.gov/pubmed/37051669>
54. Celis K, Zaman A, Adams LD, *et al*. Neuropsychiatric features in a multi-ethnic population with Alzheimer disease and mild cognitive impairment. *Int J Geriatr Psychiatry*. 2023 Sep;38(9):e5992. doi: [10.1002/gps.5992](https://doi.org/10.1002/gps.5992) PMID: 37655494; <https://www.ncbi.nlm.nih.gov/pubmed/37655494>
55. Holstege H, Hulsman M, Charbonnier C, *et al*. Exome sequencing identifies rare damaging variants in ATP8B4 and ABCA1 as risk factors for Alzheimer’s disease. *Nat Genet*. 2022 Dec;54(12):1786–1794. doi: [10.1038/s41588-022-01208-7](https://doi.org/10.1038/s41588-022-01208-7) PMID: 36411364; <https://www.ncbi.nlm.nih.gov/pubmed/36411364> PMCID: PMC9729101
56. Tejada M, Farrell J, Zhu C, *et al*. DNA from multiple viral species is associated with Alzheimer’s disease risk. *Alzheimer’s Dement*. 2023 Aug 14; doi: [10.1002/alz.13414](https://doi.org/10.1002/alz.13414) PMID: 37578203; <https://www.ncbi.nlm.nih.gov/pubmed/37578203>
57. Vardarajan BN, Reyes-Dumeyer D, Piriz AL, *et al*. Progranulin mutations in clinical and neuropathological Alzheimer’s disease. *Alzheimer’s Dement*. 2022 Dec;18(12):2458–2467. doi: [10.1002/alz.12567](https://doi.org/10.1002/alz.12567) PMID: 35258170; <https://www.ncbi.nlm.nih.gov/pubmed/35258170> PMCID: PMC9360185
58. Walters S, Contreras AG, Eissman JM, *et al*. Associations of Sex, Race, and Apolipoprotein E Alleles With Multiple Domains of Cognition Among Older Adults. *JAMA Neurol*. 2023 Jul 17;e232169. doi: [10.1001/jamaneurol.2023.2169](https://doi.org/10.1001/jamaneurol.2023.2169) PMID: 37459083; <https://www.ncbi.nlm.nih.gov/pubmed/37459083> PMCID: PMC10352930

### Alzheimer’s Disease Genetics Consortium (ADGC)

#### U01AG032984

59. Barendrecht S, Schreurs A, Geissler S, *et al*. A novel human tau knock-in mouse model reveals interaction of Abeta and human tau under progressing cerebral amyloidosis in 5xFAD mice. *Alzheimers Res Ther*. 2023 Jan 14;15(1):16. doi: [10.1186/s13195-022-01144-y](https://doi.org/10.1186/s13195-022-01144-y) PMID: 36641439; <https://www.ncbi.nlm.nih.gov/pubmed/36641439> PMCID: PMC9840277
60. Chen Y, Dai J, Tang L, *et al*. Neuroimmune transcriptome changes in patient brains of psychiatric and neurological disorders. *Mol Psychiatry*. 2023 Feb;28(2):710–721. doi: [10.1038/s41380-022-01854-7](https://doi.org/10.1038/s41380-022-01854-7) PMID: 36424395; <https://www.ncbi.nlm.nih.gov/pubmed/36424395> PMCID: PMC9911365

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61. Cui Y, Arnold FJ, Peng F, *et al.* Alternative polyadenylation transcriptome-wide association study identifies APA-linked susceptibility genes in brain disorders. *Nat Commun.* 2023 Feb 3;14(1):583. doi: [10.1038/s41467-023-36311-8](https://doi.org/10.1038/s41467-023-36311-8) PMID: 36737438; <https://www.ncbi.nlm.nih.gov/pubmed/36737438> PMCID: PMC9898543
62. Gao XR, Chiariglione M, Qin K, *et al.* Explainable machine learning aggregates polygenic risk scores and electronic health records for Alzheimer's disease prediction. *Sci Rep.* 2023 Jan 9;13(1):450. doi: [10.1038/s41598-023-27551-1](https://doi.org/10.1038/s41598-023-27551-1) PMID: 36624143; <https://www.ncbi.nlm.nih.gov/pubmed/36624143> PMCID: PMC9829871
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## **ADSP U01 Awards**

### **FUS | Therapeutic Targets**

#### **U01AG058635 - Genomic approach to identification of microglial networks involved in Alzheimer disease risk**

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## **ADSP: Functional Genomics Consortium**

### **U01AG072577 - Circular RNAs and Their Interactions With RNA-Binding Proteins to Modulate AD-Related Neuropathology**

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## **U01AG072439 - Functional Genomic Dissection of Alzheimer's Disease in Humans and Drosophila**

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## **U01AG072464 - Investigating the Functional Impact of AD Risk Genes on Neuro-Vascular Interactions**

111. Abi-Ghanem C, Salinero AE, Kordit D, *et al.* Sex differences in the effects of high fat diet on underlying neuropathology in a mouse model of VCID. *Biol Sex Differ.* 2023 May 19;14(1):31. doi: [10.1186/s13293-023-00513-y](https://doi.org/10.1186/s13293-023-00513-y) PMID: 37208759; <https://www.ncbi.nlm.nih.gov/pubmed/37208759> PMCID: PMC10199629
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## **U01AG072572 - Alzheimer Variants: Propagation of Shared Functional Changes Across Cellular Networks**

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## U01AG068221 - Assessing Alzheimer Disease Risk and Heterogeneity Using Multimodal Machine Learning Approaches

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## **U01AG068880 - Learning the Regulatory Code of Alzheimer's Disease Genomes**

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## **U01AG070112 - Genetics of Deep-Learning-Derived Neuroimaging Endophenotypes for Alzheimer's Disease**

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## **U01AG073079 - Causal and integrative deep learning for Alzheimer's disease genetics**

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## **U01AG073323 - Alzheimer's MultiOme Data Repurposing: Artificial Intelligence, Network Medicine, and Therapeutics Discovery**

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## Discovery

### U01AG049505 - CHARGE: Identifying Risk & Protective SNV for AD in ADSP Case-control Sample

221. Duperron MG, Knol MJ, Le Grand Q, *et al.* Genomics of perivascular space burden unravels early mechanisms of cerebral small vessel disease. *Nat Med.* 2023 Apr;29(4):950–962. doi: [10.1038/s41591-023-02268-w](https://doi.org/10.1038/s41591-023-02268-w) PMID: 37069360; <https://www.ncbi.nlm.nih.gov/pubmed/37069360> PMCID: PMC10115645
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223. Le Grand Q, Satizabal CL, Sargurupremraj M, *et al.* Genomic Studies Across the Lifespan Point to Early Mechanisms Determining Subcortical Volumes. *Biol Psychiatry Cogn Neurosci Neuroimaging.* 2022 Jun;7(6):616–628. doi: [10.1016/j.bpsc.2021.10.011](https://doi.org/10.1016/j.bpsc.2021.10.011) PMID: 34700051; <https://www.ncbi.nlm.nih.gov/pubmed/34700051> PMCID: PMC9395126

## Family-Based Studies

### U01AG058922 - The Familial Alzheimer Sequencing (FASe) Project (FUS)

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## FUS 2.0

### U19AG078109 - The Health & Aging Brain Study - Health Disparities (HABS-HD)

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226. Zhou Z, Ku HC, Manning SE, Zhang M, Xing C. A Varying Coefficient Model to Jointly Test Genetic and Gene-Environment Interaction Effects. *Behav Genet.* 2023 Jul;53(4):374–382. doi: [10.1007/s10519-022-10131-w](https://doi.org/10.1007/s10519-022-10131-w) PMID: 36622576; <https://www.ncbi.nlm.nih.gov/pubmed/36622576> PMCID: PMC10277225

## Essential Infrastructure

### U24AG041689- The NIA Genetics of Alzheimer’s Disease Data Storage Site(NIAGADS)

227. Chen XR, Shao Y, Sadowski MJ, On Behalf Of The Alzheimer’s Disease Neuroimaging Initiative null. Interaction between KLOTHO-VS Heterozygosity and APOE ε4 Allele Predicts Rate of Cognitive Decline in Late-Onset Alzheimer’s Disease. *Genes (Basel).* 2023 Apr 15;14(4):917.



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doi: [10.3390/genes14040917](https://doi.org/10.3390/genes14040917) PMID: 37107675;  
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## **U24AG074855 - Alzheimer's Disease Sequencing Project Phenotype Harmonization Consortium**

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## NOTES:

- Total ADSP publications related to specific NIA Notices of Funding Opportunities (NOFOs) between October 2022 and September 2023 is 240. Total publications related to specific NIA Notices of Funding Opportunities (NOFOs) for all years 2017-2023 is 705
- A supporting effort to examine genetic mechanisms of AD pathophysiology is <https://grants.nih.gov/grants/guide/notice-files/NOT-AG-18-046.html>, Notice to Specify High-Priority Research Topic for PAR-19-070 and PAR-19-071 "Genetic Underpinnings of Endosomal Trafficking as a Pathological Hub in Alzheimer's Disease and Alzheimer's Disease-Related Dementias (AD/ADRD)"
- The number of publications for this between October 2022 and September 2023 is 109. Total publications for this effort are 710
- The grand total of all ADSP publications and supporting endolysosomal studies is 1655