Resource Summary Report

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AlzGene: Field Synopsis of Genetic Association Studies in AD

RRID:SCR_006749
Type: Tool

Proper Citation

AlzGene: Field Synopsis of Genetic Association Studies in AD (RRID:SCR_006749)

Resource Information

URL: http://www.alzgene.org/

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Description: The AlzGene database provides a comprehensive, unbiased and regularly updated field synopsis of genetic association studies performed in Alzheimer''s disease. In addition, hundreds of up-to-date meta-analyses are available for all eligible polymorphisms with sufficient data. In addition to identifying the epsilon4 allele of APOE and related effects, we pinpointed over a dozen potential Alzheimer disease susceptibility genes (ACE, CHRNB2, CST3, ESR1, GAPDHS, IDE, MTHFR, NCSTN, PRNP, PSEN1, TF, TFAM and TNF) with statistically significant allelic summary odds ratios (ranging from 1.11-1.38 for risk alleles and 0.92-0.67 for protective alleles). Our database provides a powerful tool for deciphering the genetics of Alzheimer disease, and it serves as a potential model for tracking the most viable gene candidates in other genetically complex diseases.

Synonyms: Alzgene, AlzGene database

Resource Type: data or information resource, database

Defining Citation: PMID:17192785

Keywords: FASEB list

Funding: An anonymous donor ;
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Resource Name: AlzGene: Field Synopsis of Genetic Association Studies in AD

Resource ID: SCR_006749

Alternate IDs: nlx_33861

Record Creation Time: 20220129T080237+0000

Record Last Update: 20260801T190940+0000

Ratings and Alerts

No rating or validation information has been found for AlzGene: Field Synopsis of Genetic Association Studies in AD.

No alerts have been found for AlzGene: Field Synopsis of Genetic Association Studies in AD.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 172 mentions in open access literature.

Listed below are recent publications. The full list is available at T1D .

Yi D, et al. (2025) Tau pathway-based gene analysis on PET identifies CLU and FYN in a Korean cohort. Alzheimer's & dementia : the journal of the Alzheimer's Association, 21(2), e14416.

Zhao X, et al. (2025) Unveiling genetic architecture of white matter microstructure through unsupervised deep representation learning of fractional anisotropy maps. Research square.

Vandal M, et al. (2025) CD2AP at the junction of nephropathy and Alzheimer's disease. Molecular neurodegeneration, 20(1), 63.

Lee S, et al. (2024) On the effect heterogeneity of established disease susceptibility loci for Alzheimer's disease across different genetic ancestries. Alzheimer's & dementia : the journal of the Alzheimer's Association, 20(5), 3397.

Seo H, et al. (2024) Learning semi-supervised enrichment of longitudinal imaging-genetic data for improved prediction of cognitive decline. BMC medical informatics and decision making, 24(Suppl 1), 61.

Shukla R, et al. (2024) AlzGenPred - CatBoost-based gene classifier for predicting Alzheimer's disease using high-throughput sequencing data. Scientific reports, 14(1), 30294.

Thierry M, et al. (2024) The influence of APOE?4 on the pTau interactome in sporadic Alzheimer's disease. Acta neuropathologica, 147(1), 91.

Zhao X, et al. (2023) Prioritizing genes associated with brain disorders by leveraging enhancer-promoter interactions in diverse neural cells and tissues. Genome medicine, 15(1), 56.

Li C, et al. (2023) Inference for a Large Directed Acyclic Graph with Unspecified Interventions. Journal of machine learning research : JMLR, 24.

van Bree EJ, et al. (2022) A hidden layer of structural variation in transposable elements reveals potential genetic modifiers in human disease-risk loci. Genome research, 32(4), 656.

Sheng J, et al. (2022) Predictive classification of Alzheimer's disease using brain imaging and genetic data. Scientific reports, 12(1), 2405.

Jia Y, et al. (2022) Genetic dissection of glutathione S-transferase omega-1: identification of novel downstream targets and Alzheimer's disease pathways. Neural regeneration research, 17(11), 2452.

Park JH, et al. (2021) Novel Alzheimer's disease risk variants identified based on whole-genome sequencing of APOE ?4 carriers. Translational psychiatry, 11(1), 296.

Ke F, et al. (2021) Identifying Imaging Genetics Biomarkers of Alzheimer's Disease by Multi-Task Sparse Canonical Correlation Analysis and Regression. Frontiers in genetics, 12, 706986.

Fabrizio C, et al. (2021) Artificial Intelligence for Alzheimer's Disease: Promise or Challenge? Diagnostics (Basel, Switzerland), 11(8).

Gaweda-Walerych K, et al. (2021) Two Rare Variants in PLAU and BACE1 Genes-Do They Contribute to Semantic Dementia Clinical Phenotype? Genes, 12(11).

Sindi S, et al. (2021) Telomere Length Change in a Multidomain Lifestyle Intervention to Prevent Cognitive Decline: A Randomized Clinical Trial. The journals of gerontology. Series A, Biological sciences and medical sciences, 76(3), 491.

Calabrò M, et al. (2021) The biological pathways of Alzheimer disease: a review. AIMS neuroscience, 8(1), 86.

Li X, et al. (2021) Applications and Challenges of Machine Learning Methods in Alzheimer's Disease Multi-Source Data Analysis. Current genomics, 22(8), 564.

Ryu S, et al. (2021) Genetic signature of human longevity in PKC and NF-?B signaling. Aging cell, 20(7), e13362.