

Resource Summary Report

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Seattle Alzheimer Disease Brain Cell Atlas

RRID:SCR_023110

Type: Tool

Proper Citation

Seattle Alzheimer Disease Brain Cell Atlas (RRID:SCR_023110)

Resource Information

URL: <https://portal.brain-map.org/explore/seattle-alzheimers-disease>

Proper Citation: Seattle Alzheimer Disease Brain Cell Atlas (RRID:SCR_023110)

Description: Open atlas based on single cell profiling technologies with quantitative neuropathology and deep clinical phenotyping from middle temporal gyrus from neurotypical reference brains and brains from SEA-AD aged cohort that span spectrum of Alzheimer's disease. Produced via collaboration between Allen Institute for Brain Science, University of Washington Alzheimer Disease Research Center and Kaiser Permanente Washington Health Research Institute.

Abbreviations: SEA-AD

Resource Type: atlas, data or information resource

Keywords: Alzheimer's disease, single cell profiling, quantitative neuropathology, deep clinical phenotyping, middle temporal gyrus, neurotypical reference brains, SEA-AD aged cohort brains,

Related Condition: Alzheimer's disease

Funding: NIA U19AG060909

Availability: Free, Freely available

Resource Name: Seattle Alzheimer Disease Brain Cell Atlas

Resource ID: SCR_023110

Record Creation Time: 20230116T062750+0000

Record Last Update: 20260905T133218+0000

Ratings and Alerts

No rating or validation information has been found for Seattle Alzheimer Disease Brain Cell Atlas.

No alerts have been found for Seattle Alzheimer Disease Brain Cell Atlas.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 17 mentions in open access literature.

Listed below are recent publications. The full list is available at [PRECISE-TBI](#) .

Berson E, et al. (2025) Deep learning-based cell type profiles reveal signatures of Alzheimer's disease resilience and resistance. *Brain : a journal of neurology*, 148(10), 3665.

Jiang B, et al. (2025) Neuronal subtype-specific metabolic changes in neurodegenerative and neuropsychiatric diseases predicted via a systems biology-based approach. *bioRxiv : the preprint server for biology*.

Madhu H, et al. (2025) HEIST: A Graph Foundation Model for Spatial Transcriptomics and Proteomics Data. *ArXiv*.

Mirabelli M, et al. (2025) HMGA1 deficiency: a pathogenic link between tau pathology and insulin resistance. *EBioMedicine*, 115, 105700.

Kim JP, et al. (2025) Whole-genome sequencing analyses suggest novel genetic factors associated with Alzheimer's disease and a cumulative effects model for risk liability. *Nature communications*, 16(1), 4870.

Olejniczak B, et al. (2025) Transcriptomic analysis of the TRP gene family in human brain physiopathology. *Frontiers in molecular neuroscience*, 18, 1576941.

Ren Y, et al. (2025) Utilization of precision medicine digital twins for drug discovery in Alzheimer's disease. *Neurotherapeutics : the journal of the American Society for Experimental NeuroTherapeutics*, 22(3), e00553.

Lin J, et al. (2025) Hv1 inhibition rescues AD pathology by restoring microglial mitochondrial function and enhancing mitochondrial transfer. *Experimental & molecular medicine*, 57(12), 2833.

Escarião WKM, et al. (2025) Layer-Specific Colocalization of Microglia with Amyloid Plaques in the Middle Temporal Gyrus Predicts Cognitive Decline in Alzheimer's Disease. *Aging and disease*, 17(3), 1568.

Cho M, et al. (2025) Functional insight into East Asian-specific genetic risk loci for Alzheimer's disease. *Alzheimer's & dementia : the journal of the Alzheimer's Association*,

21(2), e14553.

Liu T, et al. (2025) Linking spatial omics to patient phenotypes at the population scale by BSNMani: Bayesian scalar-on-network regression with manifold learning. medRxiv : the preprint server for health sciences.

Zhukovsky P, et al. (2024) Genetic influences on brain and cognitive health and their interactions with cardiovascular conditions and depression. *Nature communications*, 15(1), 5207.

Redmer T, et al. (2024) MET receptor serves as a promising target in melanoma brain metastases. *Acta neuropathologica*, 147(1), 44.

Yamakawa M, et al. (2024) Cell States and Interactions of CD8 T Cells and Disease-Enriched Microglia in Human Brains with Alzheimer's Disease. *Biomedicines*, 12(2).

Gabitto MI, et al. (2024) Integrated multimodal cell atlas of Alzheimer's disease. *Nature neuroscience*, 27(12), 2366.

Serrano-Pozo A, et al. (2024) Astrocyte transcriptomic changes along the spatiotemporal progression of Alzheimer's disease. *Nature neuroscience*, 27(12), 2384.

Lee J, et al. (2023) Microglial REV-ERB α regulates inflammation and lipid droplet formation to drive tauopathy in male mice. *Nature communications*, 14(1), 5197.