Resource Summary Report

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Allen Human Brain Atlas: BrainSpan (Atlas of the Developing Brain)

RRID:SCR_008083
Type: Tool

Proper Citation

Allen Human Brain Atlas: BrainSpan (Atlas of the Developing Brain) (RRID:SCR_008083)

Resource Information

URL: http://brainspan.org/

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Description: Atlas of developing human brain for studying transcriptional mechanisms involved in human brain development. Consists of RNA sequencing and exon microarray data profiling up to sixteen cortical and subcortical structures across full course of human brain development, high resolution neuroanatomical transcriptional profiles of about 300 distinct structures spanning entire brain for four midgestional prenatal specimens, in situ hybridization image data covering selected genes and brain regions in developing and adult human brain, reference atlas in full color with high resolution anatomic reference atlases of prenatal (two stages) and adult human brain along with supporting histology, magnetic resonance imaging (MRI) and diffusion weighted imaging (DWI) data.

Abbreviations: BrainSpan

Synonyms: BrainSpan - Atlas of the Developing Human Brain, BrainSpan: Atlas of the Developing Human Brain, NIMH Transcriptional Atlas of Human Brain Development

Resource Type: expression atlas, atlas, data or information resource, reference atlas

Keywords: anatomic, gene expression, molecular neuroanatomy, in situ hybridization, human, medial prefrontal cortex, primary visual cortex, hippocampus, amygdala, ventral striatum, postnatal, development, brain development, transcription, brain, rna sequencing, exon microarray, developmental stage, male, female, mrna transcript, developing human, adult human, fetal brain, fetus, histology, transcriptome, magnetic resonance imaging, diffusion tensor imaging, annotation, neuroanatomy, prenatal, development, fiber tract, microarray, mri, dti, methylation, microrna, mrf

Related Condition: Neurodevelopmental disorder, Neuropsychiatric disease, Schizophrenia, Epilepsy, Parkinson's disease, Alzheimer's disease, Neurological disease, Autism

Funding: NIMH RC2 MH089921;
NIMH RC2 MH090047;
NIMH RC2 MH089929

Availability: Free, Freely available

Resource Name: Allen Human Brain Atlas: BrainSpan (Atlas of the Developing Brain)

Resource ID: SCR_008083

Alternate IDs: nif-0000-10626

Alternate URLs: http://www.developinghumanbrain.org/

License URLs: http://www.brainspan.org/policies.html#terms_of_use

Record Creation Time: 20220129T080245+0000

Record Last Update: 20260801T190345+0000

Ratings and Alerts

No rating or validation information has been found for Allen Human Brain Atlas: BrainSpan (Atlas of the Developing Brain).

No alerts have been found for Allen Human Brain Atlas: BrainSpan (Atlas of the Developing Brain).

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 398 mentions in open access literature.

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

Eising E, et al. (2026) De novo protein-coding gene variants in developmental stuttering. Molecular psychiatry, 31(1), 104.

Arcego DM, et al. (2026) Sex-specific interaction effects of Syntaxin 1A coexpression network and childhood trauma on adult depressive symptoms. EBioMedicine, 123, 106062.

Chen T, et al. (2025) In-depth inference of transcriptional regulatory networks reveals NPM1 as a therapeutic ribosomal regulator in MYC-amplified medulloblastoma. NPJ

precision oncology, 9(1), 10.

Fuma K, et al. (2025) Prenatal inflammation impairs early CD11c-positive microglia induction and delays myelination in neurodevelopmental disorders. Communications biology, 8(1), 75.

Huang FB, et al. (2025) Cross-species single-cell transcriptomics reveals neuronal similarities and heterogeneity in amniote pallium. Zoological research, 46(1), 193.

Yan HJ, et al. (2025) De Novo ACTB Variant Associated With Juvenile-Onset Temporal Lobe Epilepsy With Favorable Outcomes. Human mutation, 2025, 9951922.

Vaillend C, et al. (2025) Duchenne muscular dystrophy: recent insights in brain related comorbidities. Nature communications, 16(1), 1298.

Jaramillo-Ospina AM, et al. (2025) Brain insulin receptor gene network shapes risk for metabolic disease after early-life stress in women. Communications biology, 8(1), 1372.

Koch K, et al. (2025) Nuclear hormone receptors control fundamental processes of human fetal neurodevelopment: Basis for endocrine disruption assessment. Environment international, 198, 109400.

Chen R, et al. (2025) Analyses of GWAS and Sub-Threshold Loci Lead to the Discovery of Dendrite Development and Morphology Dysfunction Underlying Schizophrenia Genetic Risk. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 12(39), e08519.

Zhang W, et al. (2025) CSMD1 as a causative gene of developmental and epileptic encephalopathy and generalized epilepsies. Genes & diseases, 12(4), 101473.

Wang B, et al. (2025) Rare coding mutations identify 36 large-effect risk genes in obsessive-compulsive disorder and chronic tic disorders. medRxiv : the preprint server for health sciences.

Zhang Y, et al. (2025) From risk to chronicity: genetic and neuroimaging insights into the evolving patterns of spontaneous brain activity in schizophrenia. Psychological medicine, 55, e306.

Chang X, et al. (2025) ZMYND11 functions in bimodal regulation of latent genes and brain-like splicing to safeguard corticogenesis. Nature communications, 16(1), 9010.

Jo H, et al. (2025) A fetal oncogene NUAK2 is an emerging therapeutic target in glioblastoma. EMBO molecular medicine, 17(9), 2409.

Mamat M, et al. (2025) Molecular architecture of the altered cortical complexity in autism. Molecular autism, 16(1), 1.

Oldham S, et al. (2025) Transcriptomic divergence of network hubs in the prenatal human brain. Communications biology, 8(1), 1597.

Boucherie C, et al. (2025) Auts2 enhances neurogenesis and promotes expansion of the cerebral cortex. Journal of advanced research, 72, 151.

Prakasam R, et al. (2025) Autism- and intellectual disability-associated MYT1L mutation alters human cortical interneuron differentiation, maturation, and physiology. Stem cell reports, 20(3), 102421.

Wu F, et al. (2025) Whole exome sequencing identifies KCNH7 variants associated with epilepsy in children. Genes & diseases, 12(2), 101322.