

Resource Summary Report

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HIV Brain Sequence Database

RRID:SCR_008819

Type: Tool

Proper Citation

HIV Brain Sequence Database (RRID:SCR_008819)

Resource Information

URL: <http://HIVBrainSeqDB.org>

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Description: The HIV Brain Sequence Database (HIVBrainSeqDB) is a public database of HIV envelope sequences, directly sequenced from brain and other tissues from the same patients. For inclusion in the database, sequences must: (i) be deposited in Genbank; (ii) include some portion of the HIV env region; (iii) be clonal, amplified directly from tissue; and (iv) be sampled from the brain, or sampled from a patient for which the database already contains brain sequence. Sequences are annotated with clinical data including viral load, CD4 count, antiretroviral status, neurocognitive impairment, and neuropathological diagnosis, all curated from the original publication. Tissue source is coded using an anatomical ontology, the Foundational Model of Anatomy, to capture the maximum level of detail available, while maintaining ontological relationships between tissues and their subparts. 44 tissue types are represented within the database, grouped into 4 categories: (i) brain, brainstem, and spinal cord; (ii) meninges, choroid plexus, and CSF; (iii) blood and lymphoid; and (iv) other (bone marrow, colon, lung, liver, etc). Currently, the database contains 2517 envelope sequences from 90 patients, obtained from 22 published studies. 1272 sequences are from brain; the remaining 1245 are from blood, lymph node, spleen, bone marrow, colon, lung and other non-brain tissues. The database interface utilizes a faceted interface, allowing real-time combination of multiple search parameters to assemble a meta-dataset, which can be downloaded for further analysis. This online resource will greatly facilitate analysis of the genetic aspects of HIV macrophage tropism, HIV compartmentalization and evolution within the brain and other tissue reservoirs, and the relationship of these findings to HIV-associated neurological disorders and other clinical consequences of HIV infection.

Abbreviations: HIVBrainSeqDB

Synonyms: The HIV Brain Sequence Database

Resource Type: data or information resource, database

Defining Citation: [PMID:21156070](#)

Keywords: human immunodeficiency virus, hiv, brain, sequence, hiv envelope sequence, brain sequence, clone, tissue, brainstem, spinal cord, meninges, choroid plexus, csf, blood, lymphoid, bone marrow, colon, lung, liver, aids

Related Condition: Human immunodeficiency virus

Funding: ARRA ;
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NIMH MH83588

Resource Name: HIV Brain Sequence Database

Resource ID: SCR_008819

Alternate IDs: nlx_149217

Record Creation Time: 20220129T080249+0000

Record Last Update: 20260905T133154+0000

Ratings and Alerts

No rating or validation information has been found for HIV Brain Sequence Database.

No alerts have been found for HIV Brain Sequence Database.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

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

Holman AG, et al. (2010) HIVBrainSeqDB: a database of annotated HIV envelope sequences from brain and other anatomical sites. AIDS research and therapy, 7, 43.