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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Title | Neurological Structure(s) Investigated | Sample Metadata | Sample Count | Type | AD Levels? | AD Control Present? | Link | QueryNum |
| 01 | Alzheimer's disease: neurofibrillary tangles | Neurofibulary Tangles | Tangle Structure or Not Tangle Structure | 20 | MA from Tangle and Not Tangle (cRNA?) | All mid-level | No | http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE4757 | [**GSE4757**](http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE4757) |
| 02 | Alzheimer's disease: induced pluripotent stem cells with Presenilin 2 mutation (N141) | Stem Cells | Cloned or Not Cloned | 4 | MA from Mutated and Not Mutated | na | No | http://www.ncbi.nlm.nih.gov/sites/GDSbrowser?acc=GDS4141 | **GDS4141** |
| 03 | Various stages of Alzheimer's disease: laser-captured hippocampal CA1 gray matte | Gray Matter from Hippocampus | Level of AD Gender Age | 30 | MA from gray matter fixed structures in hippocampus | Control Incipient Moderate Severe | Yes | http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE28146 | [**GSE28146**](http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE28146) |
| 04 | Alzheimer blood mononuclear cells | Blood Mononuclear Cells | Gender Age (all rouhgly same) | 28 | MA from peripheral blood mononuclear cells (cRNA) | na | Yes | http://www.ncbi.nlm.nih.gov/sites/GDSbrowser?acc=GDS2601 | [**GSE4226**](http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE4226) |
| 05 | Incipient Alzheimer's Disease: Microarray Correlation Analyses | Hippocampal General | Level of AD Gender Age | 31 | MA from Hippocampus (unspecified) | Control Incipient Moderate Severe | Yes | http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE1297 | [**GSE1297**](http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE1297) |
| 06 | Gene Expression Profiles of Human Prefrontal Cortex | Prefrontal Cortex | Disease Age Gender | 622 | MA from Prefrontal Cortex | na | Yes | http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE33000 | [**GSE33000**](http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE33000) |
|  | Alteration of the microRNA network during the progression of Alzheimer’s disease | Prefrontal Cortex | Disease Stage Age Gender | 12 | MA from prefrontal cortex (miRNA) | Early late | Yes | http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE48552 | [**GSE48552**](http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE48552) |
| 07 | A blood based 12-miRNA signature of Alzheimer patients | Blood | Disease Gender Age | 70 | MA from blood (miRNA) | AD Control | Yes | http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE46579 | [**GSE46579**](http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE46579) |
| 08 | Multi-tissue gene expression profiles of human brain (CR) | Prefrontal Cortex Visual Cortex Cerebellum | Region(in column) | 230 (for each) | MA from three regions | AD  Control | Yes | http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE44768  http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE44770  http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE44771 | [**GSE44768**](http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE44768) **(CR)**  [**GSE44770**](http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE44770) **(PFC)** [**GSE44771**](http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE44771) **(VC)** |
| 09 | A Study of Small RNAs from Cerebral Neocortex of Pathology-Verified Alzheimer’s Disease, Dementia with Lewy Bodies, Hippocampal Sclerosis, Frontotemporal Lobar Dementia, and Non-Demented Human Controls | Cerebral Neocortex Gray Matter | Disease | 20 total (not all AD) | MA from Neocortex | AD Control | Yes | http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE46131 | [**GSE46131**](http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE46131) |
| 10 | Expression data from post mortem Alzheimer's disease brains | Frontal cortex, temporal cortex, hippocampus | Region Age Gender | 79 total | MA from gray matter from regions | AD  Control | Yes | http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE36980 | [**GSE36980**](http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE36980) |
| 11 | Brain microvessel: Alzheimer disease vs normal | Brain Microvessels | Disease | 20 | MA from microvessels | AD Control | Yes | http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE45596 | [**GSE45596**](http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE45596) |
| 12 | Evaluation of gene expression profile in postmortem brain with Alzheimer´s disease-type neuropathological changes | Frontal Cortex, Hippocampus | Disease | 128 | MA from regions | AD Control Other Dementia | Yes | http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE13214 | [**GSE13214**](http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE13214) |
| 13 | Expression data from non-demented controls (NDCs) and Alzheimer's disease (AD) patients | Entorhinal Cortex | Disease Gender Age | 6 | ExA from regions | AD Controll | Yes | http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE26972 | [**GSE26972**](http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE26972) |
| 14 | Common neuroinflammatory pathways in neurodegenerative diseases. | Entorhinal Cortex | Disease Gender Age | 118 (not all AD) | MA (beadarray) | AD Control | Yes | http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE26927 | [**GSE26927**](http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE26927) |
| 15 | mRNA and miRNA expression in parietal lobe cortex in Alzheimer's disease | Parietal Lobe | Disease Gender Age | 16 | MA  mRNA miRNA | AD Control | Yes | http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE16759 | [**GSE16759**](http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE16759) |
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Structure Grouping:

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|  | 1 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| Tangle | x |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hippocampus |  | x |  | x |  |  |  |  | x |  | x |  |  |  |
| Parietal |  |  |  |  |  |  |  |  |  |  |  |  |  | x |
| Frontal |  |  |  |  |  |  |  |  | x |  | x |  |  |  |
| Microvessels |  |  |  |  |  |  |  |  |  | x |  |  |  |  |
| Neocortex |  |  |  |  |  |  |  | x |  |  |  |  |  |  |
| Visual |  |  |  |  |  |  | x |  |  |  |  |  |  |  |
| Cerebellum |  |  |  |  |  |  | x |  |  |  |  |  |  |  |
| Blood |  |  | x |  |  | x |  |  |  |  |  |  |  |  |
| Entorhinal |  |  |  |  |  |  |  |  |  |  |  | x | x |  |
| temporal |  |  |  |  |  |  |  |  | x |  |  |  |  |  |
| prefrontal |  |  |  |  | x |  | x |  |  |  |  |  |  |  |
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Metadata Grouping:

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 1 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| AD lvl |  | x |  | x |  |  |  |  |  |  |  |  |  |  |
| Age |  | x | x | x | x | x |  |  | x |  |  | x | x |  |
| Gender |  | x | x | x | x | x |  |  | x |  |  | x | x |  |
| AD Binary |  | x | x | x | x | x | x | x | x | x | x | x | x | x |