Resource Summary Report

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Laboratory of Neuro Imaging

RRID:SCR_001922
Type: Tool

Proper Citation

Laboratory of Neuro Imaging (RRID:SCR_001922)

Resource Information

URL: http://www.loni.usc.edu/

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Description: Biomedical technology resource center specializing in novel approaches and tools for neuroimaging. It develops novel strategies to investigate brain structure and function in their full multidimensional complexity. There is a rapidly growing need for brain models comprehensive enough to represent brain structure and function as they change across time in large populations, in different disease states, across imaging modalities, across age and sex, and even across species. International networks of collaborators are provided with a diverse array of tools to create, analyze, visualize, and interact with models of the brain. A major focus of these collaborations is to develop four-dimensional brain models that track and analyze complex patterns of dynamically changing brain structure in development and disease, expanding investigations of brain structure-function relations to four dimensions.

Abbreviations: LONI

Synonyms: UCLA Laboratory of Neuro Imaging, Laboratory of Neuroimaging, UCLA LONI, USC Laboratory of Neuro Imaging

Resource Type: training resource, biomedical technology resource center

Keywords: anatomic, animal, brain, brain function, brain structure, cerebral metabolism, human, mapping, neurobiological, software, neuroimaging, fmri, mri, neuroimaging, software, brain mapping, computational software, magnetic resonance

Funding: NCRR 5 P41 RR013642

Availability: LONI Software License

Resource Name: Laboratory of Neuro Imaging

Resource ID: SCR_001922

Alternate IDs: nif-0000-10494

Alternate URLs: http://www.nitrc.org/projects/loni

Old URLs: http://loni.ucla.edu/

License: LONI Software License

Record Creation Time: 20220129T080210+0000

Record Last Update: 20260728T043120+0000

Ratings and Alerts

No rating or validation information has been found for Laboratory of Neuro Imaging.

No alerts have been found for Laboratory of Neuro Imaging.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 58 mentions in open access literature.

Listed below are recent publications. The full list is available at nidm-terms .

Lynch KM, et al. (2025) Perivascular and parenchymal fluid characteristics are related to age and cognitive performance across the lifespan. Imaging neuroscience (Cambridge, Mass.), 3.

Piot E, et al. (2025) Estimation of reference curves for brain atrophy and analysis of robustness to machine effects. Scientific reports, 15(1), 34585.

Lynch KM, et al. (2025) Perivascular and parenchymal fluid characteristics are related to age and cognitive performance across the lifespan. bioRxiv : the preprint server for biology.

Shih NC, et al. (2025) Perivascular space mediated the interaction between sleep, and brain functional connectivity in the healthy aging population. bioRxiv : the preprint server for biology.

Qiu T, et al. (2024) Effect of cerebral small vessel disease on the integrity of cholinergic system in mild cognitive impairment patients: a longitudinal study. Journal of neurology, 271(5), 2704.

Edwards L, et al. (2024) Pulse pressure and APOE ??4 dose interact to affect cerebral blood flow in older adults without dementia. Cerebral circulation - cognition and behavior,

6, 100206.

Hu Q, et al. (2024) Elevated plasma neurofilament light was associated with multi-modal neuroimaging features in Alzheimer's Disease signature regions and predicted future tau deposition. Research square.

Tariot PN, et al. (2024) Reversibility of cognitive worsening observed with BACE inhibitor umibecestat in the Alzheimer's Prevention Initiative (API) Generation Studies. Alzheimer's & dementia : the journal of the Alzheimer's Association, 20(11), 7745.

Nho K, et al. (2024) CYP1B1-RMDN2 Alzheimer's disease endophenotype locus identified for cerebral tau PET. Nature communications, 15(1), 8251.

Kapadia A, et al. (2023) Hypoperfusion Precedes Tau Deposition in the Entorhinal Cortex: A Retrospective Evaluation of ADNI-2 Data. Journal of clinical neurology (Seoul, Korea), 19(2), 131.

Brenner EK, et al. (2023) Brain Derived Neurotrophic Factor Interacts with White Matter Hyperintensities to Influence Processing Speed and Hippocampal Volume in Older Adults. Journal of Alzheimer's disease : JAD, 93(1), 141.

Cogswell PM, et al. (2023) Evidence against a temporal association between cerebrovascular disease and Alzheimer's disease imaging biomarkers. Nature communications, 14(1), 3097.

Calcetas AT, et al. (2022) Increased regional white matter hyperintensity volume in objectively-defined subtle cognitive decline and mild cognitive impairment. Neurobiology of aging, 118, 1.

Qiu T, et al. (2022) Altered functional connectivity pattern of hippocampal subfields in individuals with objectively-defined subtle cognitive decline and its association with cognition and cerebrospinal fluid biomarkers. The European journal of neuroscience, 56(12), 6227.

Dumais F, et al. (2022) eICAB: A novel deep learning pipeline for Circle of Willis multiclass segmentation and analysis. NeuroImage, 260, 119425.

Baloni P, et al. (2022) Multi-Omic analyses characterize the ceramide/sphingomyelin pathway as a therapeutic target in Alzheimer's disease. Communications biology, 5(1), 1074.

Jimenez-Maggiora GA, et al. (2022) ATRI EDC: a novel cloud-native remote data capture system for large multicenter Alzheimer's disease and Alzheimer's disease-related dementias clinical trails. JAMIA open, 5(1), ooab119.

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.

Liu N, et al. (2021) Hippocampal transcriptome-wide association study and neurobiological pathway analysis for Alzheimer's disease. PLoS genetics, 17(2), e1009363.

Stockert A, et al. (2021) Temporo-cerebellar connectivity underlies timing constraints in audition. eLife, 10.