Multi-Modal MRI Reproducibility Resource

RRID:SCR_002442
Type: Tool

Proper Citation

Multi-Modal MRI Reproducibility Resource (RRID:SCR_002442)

Resource Information

URL: http://www.nitrc.org/projects/multimodal/

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Description: Scan-rescan imaging sessions on 21 healthy volunteers (no history of neurological disease) intended to be a resource for statisticians and imaging scientists to be able to quantify the reproducibility of their imaging methods using data available from a generic 1 hour session at 3T. Imaging modalities include MPRAGE, FLAIR, DTI, resting state fMRI, B0 and B1 field maps, ASL, VASO, quantitative T1 mapping, quantitative T2 mapping, and magnetization transfer imaging. All data have been converted to NIFTI format. Please cite: Bennett. A. Landman, Alan J. Huang, Aliya Gifford, Deepti S. Vikram, Issel Anne L. Lim, Jonathan A.D. Farrell, John A. Bogovic, Jun Hua, Min Chen, Samson Jarso, Seth A. Smith, Suresh Joel, Susumu Mori, James J. Pekar, Peter B. Barker, Jerry L. Prince, and Peter C.M. van Zijl. ?Multi-Parametric Neuroimaging Reproducibility: A 3T Resource Study?, NeuroImage. (2010) NIHMS/PMC:252138 doi:10.1016/j.neuroimage.2010.11.047

Abbreviations: Multi-Modal MRI Reproducibility Resource

Resource Type: image collection, data or information resource

Defining Citation: PMID:21094686

Keywords: java image science toolkit, magnetic resonance, nifti, neuroimaging, reproducibility, mprage, flair, dti, resting state fmri, b0 field map, b1 field map, asl, vaso, quantitative t1 mapping, quantitative t2 mapping, magnetization transfer imaging

Related Condition: Healthy

Funding:

Availability: BIRN Data License, Acknowledgement requested

Resource Name: Multi-Modal MRI Reproducibility Resource

Resource ID: SCR_002442

Alternate IDs: nlx_155818

Record Creation Time: 20220129T080213+0000

Record Last Update: 20250330T060216+0000

Ratings and Alerts

No rating or validation information has been found for Multi-Modal MRI Reproducibility Resource.

No alerts have been found for Multi-Modal MRI Reproducibility Resource.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 11 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Lindquist MA, et al. (2023) Sliding windows analysis can undo the effects of preprocessing when applied to fMRI data. bioRxiv : the preprint server for biology.

Sörös P, et al. (2021) Replicability, Repeatability, and Long-term Reproducibility of Cerebellar Morphometry. Cerebellum (London, England), 20(3), 439.

Kudela M, et al. (2017) Assessing uncertainty in dynamic functional connectivity. NeuroImage, 149, 165.

Choe AS, et al. (2017) Comparing test-retest reliability of dynamic functional connectivity methods. NeuroImage, 158, 155.

Tang X, et al. (2017) Surface-based vertexwise analysis of morphometry and microstructural integrity for white matter tracts in diffusion tensor imaging: With application to the corpus callosum in Alzheimer's disease. Human brain mapping, 38(4), 1875.

Larobina M, et al. (2015) Self-Trained Supervised Segmentation of Subcortical Brain

Structures Using Multispectral Magnetic Resonance Images. BioMed research international, 2015, 764383.

Choe AS, et al. (2015) Reproducibility and Temporal Structure in Weekly Resting-State fMRI over a Period of 3.5 Years. PloS one, 10(10), e0140134.

Govindarajan KA, et al. (2014) Effect of intrinsic and extrinsic factors on global and regional cortical thickness. PloS one, 9(5), e96429.

Duda JT, et al. (2014) Reproducibility of graph metrics of human brain structural networks. Frontiers in neuroinformatics, 8, 46.

Choe AS, et al. (2013) Extensive neurological recovery from a complete spinal cord injury: a case report and hypothesis on the role of cortical plasticity. Frontiers in human neuroscience, 7, 290.

Klein A, et al. (2012) 101 labeled brain images and a consistent human cortical labeling protocol. Frontiers in neuroscience, 6, 171.