

Resource Summary Report

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LORIS - Longitudinal Online Research and Imaging System

RRID:SCR_000590

Type: Tool

Proper Citation

LORIS - Longitudinal Online Research and Imaging System (RRID:SCR_000590)

Resource Information

URL: <http://cbrain.mcgill.ca/loris>

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Description: A modular and extensible web-based data management system that integrates all aspects of a multi-center study, from heterogeneous data acquisition to storage, processing and ultimately dissemination, within a streamlined platform. Through a standard web browser, users are able to perform a wide variety of tasks, such as data entry, 3D image visualization and data querying. LORIS also stores data independently from any image processing pipeline, such that data can be processed by external image analysis software tools. LORIS provides a secure web-based and database-driven infrastructure to automate the flow of clinical data for complex multi-site neuroimaging trials and studies providing researchers with the ability to easily store, link, and access significant quantities of both scalar (clinical, psychological, genomic) and multi-dimensional (imaging) data. LORIS can collect behavioral, neurological, and imaging data, including anatomical and functional 3D/4D MRI models, atlases and maps. LORIS also functions as a project monitoring and auditing platform to oversee data acquisition across multiple study sites. Confidentiality during multi-site data sharing is provided by the Subject Profile Management System, which can perform automatic removal of confidential personal information and multiple real-time quality control checks. Additionally, web interactions with the LORIS portal take place over an encrypted channel via SSL, ensuring data security. Additional features such as Double Data Entry and Statistics and Data Query GUI are included.

Abbreviations: LORIS

Synonyms: Longitudinal Online Research and Imaging System, Longitudinal Online Research Imaging System

Resource Type: data management software, software resource, software application

Defining Citation: [PMID:22319489](https://pubmed.ncbi.nlm.nih.gov/22319489/)

Keywords: neuroimaging, multi center, data querying, imaging data, platform, computed tomography, neuroinformatics, 3d, 4d, neurological, imaging, mri model, atlas, map, clinical, image processing

Funding: NICHD N01-HD02-3343;
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NINDS N01-NS-9- 2314;
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NINDS N01-NS-9-2316;
NINDS N01-NS-9-2317;
NINDS N01-NS-9- 2319;
NINDS N01-NS-9- 2320

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: LORIS - Longitudinal Online Research and Imaging System

Resource ID: SCR_000590

Alternate IDs: nlx_144608

Alternate URLs: <http://www.nitrc.org/projects/loris>

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Record Creation Time: 20220129T080202+0000

Record Last Update: 20260808T185726+0000

Ratings and Alerts

No rating or validation information has been found for LORIS - Longitudinal Online Research and Imaging System.

No alerts have been found for LORIS - Longitudinal Online Research and Imaging System.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 4 mentions in open access literature.

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

Das S, et al. (2016) Cyberinfrastructure for Open Science at the Montreal Neurological Institute. *Frontiers in neuroinformatics*, 10, 53.

Mennes M, et al. (2013) Making data sharing work: the FCP/INDI experience. *NeuroImage*, 82, 683.

Nooner KB, et al. (2012) The NKI-Rockland Sample: A Model for Accelerating the Pace of Discovery Science in Psychiatry. *Frontiers in neuroscience*, 6, 152.

Das S, et al. (2011) LORIS: a web-based data management system for multi-center studies. *Frontiers in neuroinformatics*, 5, 37.