

Resource Summary Report

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ISA Infrastructure for Managing Experimental Metadata

RRID:SCR_002041

Type: Tool

Proper Citation

ISA Infrastructure for Managing Experimental Metadata (RRID:SCR_002041)

Resource Information

URL: <http://isa-tools.org>

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Description: Desktop software suite targeted to curators and experimentalists that assists in the reporting and local management of experimental metadata, engages with minimum information checklists and ontologies and formats studies for submission to international public repositories. The ISA software suite is the product of an ongoing collaboration between various research and service groups from diverse life science domains. It represents an opportunity for the wider research community to start taking data management into their own hands by supporting graduated adherence to community standards and the efficient curation of experimental metadata at source, shielded from underlying complexities. The software suite is comprised of several platform-independent Java-based software components for local use, including a relational database, built around the ISA-Tab format. The components work both as stand-alone applications and as a unified system.

Synonyms: Investigation / Study / Assay (ISA) infrastructure, ISA metadata tracking tools, Investigation/Study/Assay infrastructure, isainfrastructure, ISA infrastructure, Investigation / Study / Assay infrastructure, ISAtools, Investigation/Study/Assay (ISA) infrastructure, ISA tools

Resource Type: data or information resource, narrative resource, software resource, standard specification

Defining Citation: [PMID:20679334](#)

Keywords: data management, metadata, minimum information, ontology, format, genomics, proteomics, transcriptomics, standards-compliant

Funding: BBSRC BB/I000917/1

Availability: Free, Available for download, Freely available

Resource Name: ISA Infrastructure for Managing Experimental Metadata

Resource ID: SCR_002041

Alternate IDs: nif-0000-12074

Alternate URLs: <http://isatab.sourceforge.net/index.html>

Record Creation Time: 20220129T080211+0000

Record Last Update: 20260912T195536+0000

Ratings and Alerts

No rating or validation information has been found for ISA Infrastructure for Managing Experimental Metadata.

No alerts have been found for ISA Infrastructure for Managing Experimental Metadata.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 12 mentions in open access literature.

Listed below are recent publications. The full list is available at [SPARC SAWG](#) .

Steffens S, et al. (2024) The challenges of research data management in cardiovascular science: a DGK and DZHK position paper-executive summary. Clinical research in cardiology : official journal of the German Cardiac Society, 113(5), 672.

David R, et al. (2023) "Be sustainable": EOSC-Life recommendations for implementation of FAIR principles in life science data handling. The EMBO journal, 42(23), e115008.

Nijssse B, et al. (2022) FAIR data station for lightweight metadata management and validation of omics studies. GigaScience, 12.

van der Velde KJ, et al. (2022) FAIR Genomes metadata schema promoting Next Generation Sequencing data reuse in Dutch healthcare and research. Scientific data, 9(1), 169.

Gundersen S, et al. (2021) Recommendations for the FAIRification of genomic track metadata. F1000Research, 10.

, et al. (2020) Facilitating author-driven, machine-readable descriptions with the new minISA metadata format. *Scientific data*, 7(1), 304.

Scott RT, et al. (2020) Advancing the Integration of Biosciences Data Sharing to Further Enable Space Exploration. *Cell reports*, 33(10), 108441.

, et al. (2019) Five years of Scientific Data. *Scientific data*, 6(1), 72.

Ledo A, et al. (2019) A global, empirical, harmonised dataset of soil organic carbon changes under perennial crops. *Scientific data*, 6(1), 57.

, et al. (2018) Open data, open curation. *Scientific data*, 5, 180204.

Harper L, et al. (2018) AgBioData consortium recommendations for sustainable genomics and genetics databases for agriculture. *Database : the journal of biological databases and curation*, 2018.

Morris SA, et al. (2015) Experiences in supporting the structured collection of cancer nanotechnology data using caNanoLab. *Beilstein journal of nanotechnology*, 6, 1580.