

Curate, store, analyse, share and publish your bioscience experiment

The open source ISA tools and its international community of users and collaborators

The open source ISA metadata tracking tools facilitates standards compliant collection, curation, local management and reuse of datasets in an increasingly diverse set of life-science domains. Built around the ‘Investigation’ (the project context), ‘Study’ (a unit of research) and ‘Assay’ (analytical measurement) metadata categories, the tools are designed to manage studies employing one or a combination of technologies.

Here we show the different components of the ISA software suite and the external tools we plug in to, and how they can help you to: curate, store, analyse, share and publish your research.

A selection of articles and real applications of ISA

ISA software suite
Rocca-Serra et al, 2010 Bioinformatics

Towards interoperable bioscience data
Sansone et al, 2012, Nature Genetics

The Harvard Stem Cell Discovery Engine
Ho Sui et al, 2012, Nucleic Acids Research

Taxonomy-based Glyph Design
Maguire et al, 2012, IEEE TVCG

OntoMaton
Maguire et al, 2013, Bioinformatics

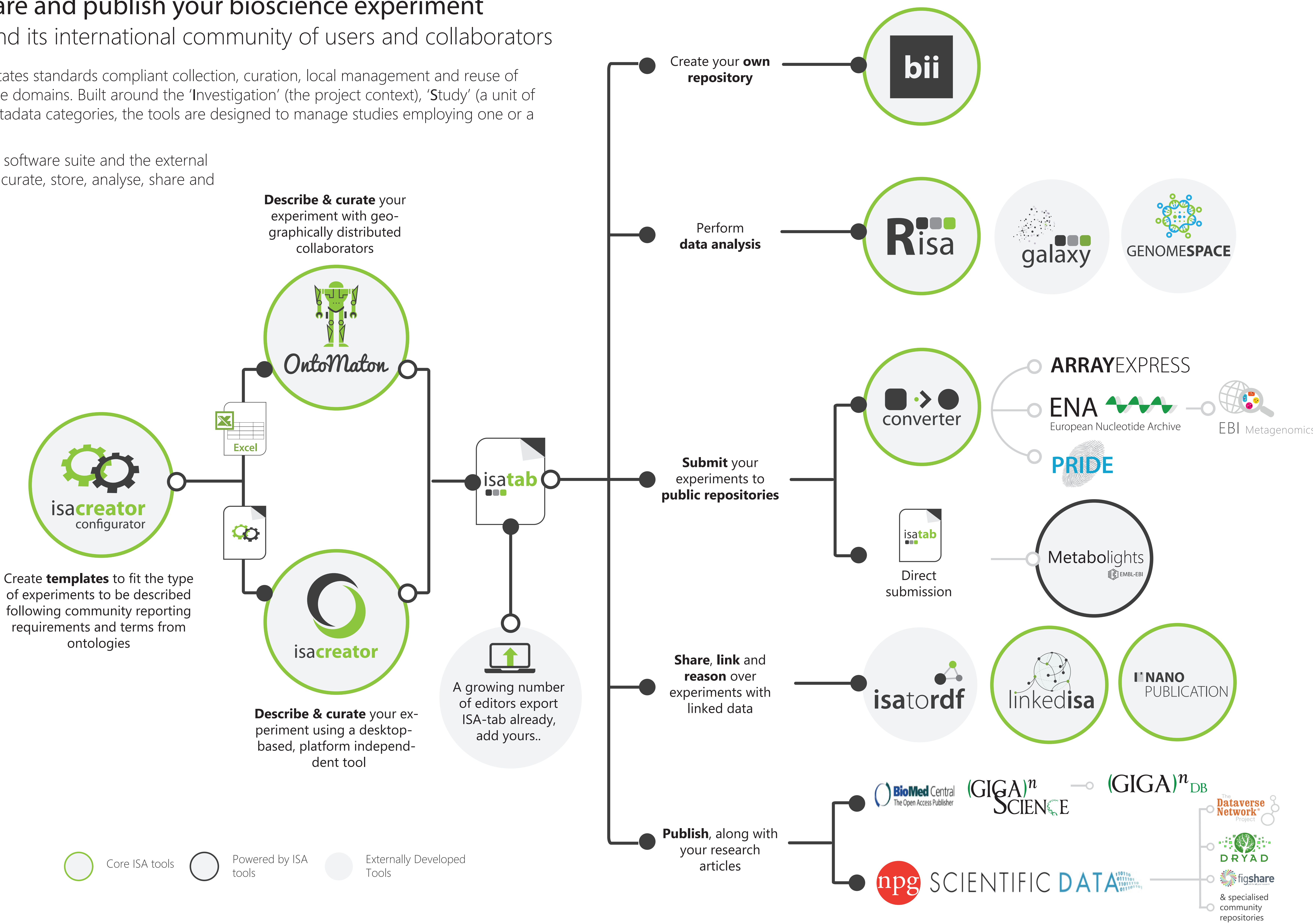
The ToxBank Data Warehouse
Kohonen et al, 2013, Molecular Informatics

MetaboLights
Haug et al, 2013, Nucleic Acids Research

Standardizing data: ISA-Tab-Nano
Baker et al, 2013, Nature Nanotechnology

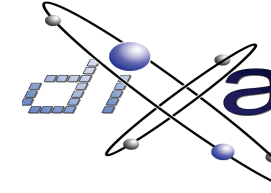
The Risa R/Bioconductor package
Gonzalez-Beltran et al, 2014, BMC Bioinformatics

linkedISA
Gonzalez-Beltran et al, 2014, BMC Bioinformatics



The open ISA tools and related formats belong to its community of users and contributors, who are assisted by a dedicated team based at the University of Oxford, who have supported its open developments since 2007.

ISA powers data collection, curation resources and repositories at global, institutional and project level, e.g.:



TEAM FUNDED BY



For a **demo** of the ISA tools or to discuss how to implement one or more components in your existing system, or simply use the format, contact us and join the ISA Commons.

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