

VIVO-ISF Ontology

Quick links

- [VIVO-ISF ontology documentation](#)
- [VIVO-ISF 1.6 Public OWL ontology](#) – the subset of the full Integrated Semantic Framework used in the VIVO application
- [VIVO JIRA ontology issues \(tracker\)](#)
- [Integrated Semantic Framework \(ISF\) Google code site](#)

Ontology Overview

VIVO is an open source application implementing semantic web principles and technologies to represent academic research communities. When populated with researcher interests, activities, and accomplishments, VIVO enables the discovery of research and scholarship across disciplines at one institution or across many. Every person, organization, or other data entity in VIVO has a unique identifier in the form of a URI. Requesting that URI in a browser will return a human-readable web page, while a request for the same URI as data will return a machine-readable version of the same content for use in other applications, following the principles of linked open data (see <http://linkeddata.org>).

VIVO enables the discovery of researchers across institutions as demonstrated by <http://vivosearch.org> and the VIVO searchlight browser plugin (<http://vivo-searchlight.org>). Participants in the beta search site include the 7 institutions participating in the NIH VIVO grant and Harvard University. Harvard Profiles (<http://profiles.catalyst.harvard.edu>) is a distinct research networking application but uses the VIVO ontology for internal data representation and for data sharing on the Web.

The [Integrated Semantic Framework](#) ontology modules for VIVO (the VIVO-ISF ontology) provide a set of types (classes) and relationships (properties) to represent researchers and the full context in which they work. Content in any local VIVO installation may be maintained manually, brought into VIVO in automated ways from local systems of record, such as HR, grants, course, and faculty activity databases, or from database providers such as publication aggregators and funding agencies.

Ontology Documentation

- [VIVO-ISF ontology documentation](#)
- [Documentation for v1.5 and earlier](#)

Issue Tracking

- [Github issue tracker](#) for wish lists, extension requests, and requirements gathering

Children

- [Notes on ISF deployment in VIVO](#)
- [VIVO-ISF ontology documentation](#)
 - [VIVO-ISF 1.6 Live OWL Documentation Environment](#)
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 - [ISF beta release documentation](#)
 - [ISF SVN organization](#)
 - [ISF modules](#)
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 - [ISF reified relationship model](#)
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 - [Concepts, Keywords, Controlled Vocabularies, and Identifiers](#)
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 - [Integrating the UMLS Ontology into VIVO for Linking Biomedical Scientists](#)
 - [Source ontologies for VIVO](#)
 - [The W3C vCard ontology in VIVO](#)
 - [Why should we create VCard entities linked to Authorships?](#)
 - [VCard usage diagram](#)
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 - [VIVO 1.5 to VIVO-ISF change diagrams](#)
 - [VIVO-ISF Ontology v1.6 Overview: Classes](#)
 - [Representing relationships and roles](#)
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 - [VIVO-ISF 1.6 Relationship Diagrams](#)
 - [VIVO 1.6 Relationship Diagrams: Award and Award Receipt](#)
 - [VIVO-ISF 1.6 relationship diagrams: Advising](#)
 - [VIVO-ISF 1.6 relationship diagrams: Authorship](#)
 - [VIVO-ISF 1.6 relationship diagrams: Educational Training](#)
 - [VIVO-ISF 1.6 relationship diagrams: Grant](#)
 - [Worked ontology example using Person, Role, and Project instead of Grant](#)
 - [VIVO-ISF 1.6 relationship diagrams: Membership](#)
 - [VIVO-ISF 1.6 relationship diagrams: Position](#)
 - [VIVO-ISF 1.6 relationship diagrams: Teaching](#)

- Rich export SPARQL queries
 - Rich export SPARQL queries: Address
 - Rich export SPARQL queries: Advising
 - Rich export SPARQL queries: Award
 - Rich export SPARQL queries: Credential
 - Rich export SPARQL queries: Educational Training
 - Rich export SPARQL queries: Funding
 - Rich export SPARQL queries: Membership
 - Rich export SPARQL queries: Outreach
 - Rich export SPARQL queries: Patent
 - Rich export SPARQL queries: Position
 - Rich export SPARQL queries: Presentation
 - Rich export SPARQL queries: Publication
 - Rich export SPARQL queries: Teaching
- Ontology documentation for v1.5 and earlier
 - VIVO ontology design principles
 - Ontology Design Choices
 - Practical Ontology Design Principles in the VIVO context
 - The core ontology and its annotations
 - What does VIVO Core need to Support?
 - Extending the VIVO ontology
 - Reification in RDF
 - Representing internal and external links in the VIVO ontology
 - Ontology Editor's Guide
 - Ontology editing in Vitro
 - VIVO ontology documentation by release through v1.5
 - Ontology editor and OWL support for v1.5
 - Ontology changes from version 1.4 to 1.5
 - Version 1.4 Ontology Diagrams
 - VIVO 1.4 Ontology overview diagram
 - VIVO Ontology Classes and Properties.v1.4.1
 - VIVO 1.4 Concepts diagram
 - VIVO 1.4 Position diagram
 - VIVO 1.4 Grant diagram
 - Ontology changes from version 1.3 to 1.4
 - Version 1.3 Ontology Diagrams
 - VIVO 1.3 Ontology overview diagram
 - Class hierarchy below foaf__Person
 - Foaf__Person data properties only
 - Foaf__Person and all object properties (data properties omitted)
 - Member Roles visual map (applies generally to all Roles for Agents)
 - Member Roles visual map (applies generally to all Roles for Agents)
 - People in Positions visual map
 - People and Publications visual map
 - 2009 VIVO Ontology Visualization
 - Proposed outline for ontology documentation, circa 2011
 - VIVO 1.5 Ontology Extensions
 - VIVO 1.5 Ontology Extensions -- Duke