

INTRODUCTION

Biological and biomedical datasets are increasingly generated independently across institutions, yet most lack the interoperability needed for cross-dataset integration and reuse. Data schemas address this by enforcing structured vocabularies and consistent field definitions, improving both machine readability and dataset discoverability. However, the infrastructure for schema-driven data practices remains fragmented: existing data portals prioritize dataset discovery over schema reuse and harmonization, and mapping data to schemas is largely manual, inconsistent, and costly. What is needed is not just individual schemas, but an ecosystem: shared tools and conventions that make schema adoption, editing, and harmonization a tractable part of the data lifecycle. Here we present our development of a suite of tools for schema discovery, schema editing, and automated within-schema harmonization, lowering the barrier to producing datasets that are interoperable by design.

Our schema catalogue integrates with DataHarmonizer to let users easily search, discover, and compare complex metadata schemas. It acts as a centralized backend that allows users to pull international standards directly into their spreadsheet GUI, simplifying cross-platform interoperability.

Projects

- Soil Carbon Tracking Hub - 2
- Activating Genomics - 1
- Genomic Wheat Resilience - 1

Categories

There are no Categories that match this search

Tags

- carbon - 1

Search schemas...

4 datasets found Order by: Relevance

Wheat Drought Resistance OCA Schema
An Overlays Capture Architecture (OCA) schema defining the attributes for drought resistance scoring in early-stage wheat growth.

Soil Carbon Baseline LinkML
A LinkML data dictionary for establishing standardized baseline carbon metrics in agricultural soils.

KEYWORD SEARCH

Graph Filters

SEARCH: milk

SEARCH ENGINE: Local Graph, Federated

NODE TYPE: All Types, Dataset, Schema

Filter Graph

DATASETS

milkg_aggregatio...
milkg_aggregatio...
cow_milkAggre...
milkg_aggregatio...

SCHEMA

GRAPHDB SEARCH

