

Leveraging Ontologies within the National Microbiome Data Collaborative

Linked data Modeling Language defines data schema and mappings to ontologies.

biosample processing:

description: >-

A process that takes one or more biosamples as inputs and generates one or as outputs.

slots:

- has input

broad_mappings:

- OBI:0000094

skos:broadMatch to OBI's 'material processing'

Data values are defined using MlxS terms, and are mapped to classes in the Environment Ontology.

"id": "gold:Gb0115850",

"env_broad_scale":

{... "ENVO:00000446"},

"env_local_scale":

{ ... "ENVO:00000291"},

"env_medium":

{... "ENVO:00005802" }

env_medium maps to ENVO's 'bulk soil'

Provenance ontology relates data to the entities that produced them.

"id": "nmdc:eadcd3b883",

"name": "Froze_Core_..."

"description": "MetaMS CSV file",

"file_size_bytes": 565558,

"url": "https://nmdcdemo.ems...",

"was_generated_by":

"nmdc:6fdeaf901"

Nmdc:6fdeaf901 identifies the process that generated the data.