

Mapping from iSamples core 1.0 sample description schema to DataCite 4.3 metadata. Fields on the left with prefix 'X--' do not map to DataCite, or require some logic or processing to map.

iSamplesSchemaCore1.0	iSamples notes	DataCite 4.3	Sub element	Definition
		affiliation		array
X-- affiliation identifier			.	datacite also has affiliationIdentifier, affiliationIdentifierScheme, and schemeURI
produced_by/SamplingEvent/responsibility [role=collector]/affiliation	only one affiliation associated with person in this role.		name	string value
alternate_identifiers	other identifiers can be provided with label, scheme_name (authority), and identifier string. Label doesn't map to DataCite	alternatIdentifiers	.	
alternate_identifiers/ identifier			alternatIdentifier	
alternate_identifiers/ scheme_name			alternatIdentifierTy pe	
produced_by/responsibility[ro les other than 'collector', 'funder'],	Agents associated with sampling event, agent/role is subclass of 'contributor'. Need mapping from iSample roles to DataCite contributorType	Contributor	.	The institution or person responsible for managing, distributing, or otherwise contributing to the collection or curation of the sample
produced_by/SamplingEvent/ responsibility/name			name	
produced_by/SamplingEvent/ responsibility/affiliation			affiliation	
produced_by/SamplingEvent/ responsibility/identifier			namIdentifier	
produced_by/SamplingEvent/ responsibility/role			contributorType	
curation/responsibility.Agent	Agents associated with sample curation, Need mapping from iSample roles to DataCite contributorType	contributor	.	
curation/responsibility/role	roles should be restricted to those relevant to sample curation		contributorType	DataCite terms for contributor roles
curation/responsibility/name	Person or organization name		name	
curation/responsibility/affiliat ion	If a person, can have an organization affiliation		affiliation	

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curation/responsibility/identifier	Identifier for person or organization. only one identifier in iSamples. An identifier for the institution having custody of the object(s)		nameIdentifiers	
produced_by/SamplingEvent/responsibility	the responsibility is an agent-- could be person or organization, with role = 'collector'. Other agents associated with the sampling event could be included, e.g. with roles like 'sponsor', 'funder'....	creators	.	Array; The main researchers involved in producing the data, or the authors of the publication, in priority order.
produced_by/SamplingEvent/result_time	Date on which the sample was collected.	Date[dateType = 'Collected']	.	
description	free text description of the physical sample, and any related information. Include as much detail as will be useful for users to find the sample and understand its context.	Description [descriptionType = 'Abstract']	.	All additional information that does not fit in any of the other categories. May be used for technical information.
produced_by/label && produced_by/ description && produced_by/ authorized_by	concatenate iSamples SamplingEvent label and description; include information in 'authorized_by'	Description [descriptionType = 'Method']	.	The methodology employed for the study or research.
X--- family name	no iSamples property	familyName	.	string
N.A.	not applicable for physical samples	Format	.	
produced_by/SamplingEvent/responsibility[Role=funder]	Could also be a funder for curation in Curation/responsibilities. If the information is available, the funder should be considered to be the particular award, grant, contract, etc. that supported the sample collection or curation activity.	fundingReferences	.	
produced_by/SamplingEvent/responsibility[Role=funder]/ name	Name person or organization that supported the activity;		funderName	
produced_by/SamplingEvent/responsibility[Role=funder]/ identifier	identifier for funding agent		funderIdentifier	
X--- funder award number	award identifiers should go in isam:project		awardNumber	
X--- funder award URI	identifier for the particular funding instrument that supported the activity. award identifiers should go in isam:project		awardURI	
produced_by/SamplingEvent/project	a name or a resolvable URI for a project that is the sponsor for a samplingEvent. If funding was through an identified grant/award/ contract	fundingReferences / awardTitle,	awardTitle	concatenate award information to identify a funded project

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	instrument, this is the label associated with that instrument, If a grant/contract/award was the instrument, this would be the award title.	awardNumber, awardURI		
produced_by/SamplingEvent/sampling_site	one WGS 84 Decimal Degree lat /long point location is required. Schema doesn't accommodate other coordinate locations. This corresponds to DataCite geoLocationPoint. Multiple places might be specified; iSamples is limited to a single point location -- doesn't make sense for a sample to come from more than one point location...	GeoLocation	.	Spatial region or named place where the data was gathered or about which the data is focused.
produced_by/SamplingEvent/sampling_site/label	text to identify a location for people;		geoLocationPlace	
produced_by/SamplingEvent/sampling_site/description	description of location		geoLocationPlace	
produced_by/SamplingEvent/sampling_site/place_name	iSamples can have multiple values.		geoLocationPlace	
produced_by/SamplingEvent/sampling_site/sample_location/longitude	sample location point coordinate		geoLocationPoint/pointLongitude	
produced_by/SamplingEvent/sampling_site/sample_location/latitude	sample location point coordinate		geoLocationPoint/pointLatitude	
X--- given name	no iSamples property	givenName	.	string
sample_identifier	unique identifier for the physical object, ideally a URI that is physically attached to the material sample object, an IGSN or ARK	Identifier	.	The Identifier is a unique string that identifies a resource.
X-- keyword language	no iSamples property	lang, ClassificationCode		DataCite has ClassificationCode and xml:lang attributes for subject
X-- metadata language	not in isamples model; English is assumed	Language	.	
produced_by/SamplingEvent/responsibility [role=collector]/name	string, name of a person. Format: {firstName MI lastName}.	name (creatorName in XML)	.	string
X--- name type	no iSamples property; DataCite allows 'organizational' or 'personal' name		nameType	controlled
		nameIdentifiers	.	an array

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produced_by/SamplingEvent/responsibility [role=collector]/identifier	only one identifier associated with person in this role. iSamples identifier value is a string.	nameIdentifiers	nameIdentifier	string
X-- name identifier scheme name	no iSamples property	nameIdentifiers	nameIdentifierScheme	string
X-- name identifier scheme URI	no iSamples property	nameIdentifiers	schemeURI	URI
X-- publication year	Time stamp for when the sample registration information is made public through the identifier authority; not currently included in iSamples metadata, use year of sample registration; If an embargo period has been in effect, use the date when the embargo period ends.	PublicationYear	.	The year when the data was or will be made publicly available. If an embargo period has been in effect, use the date when the embargo period ends.
registrant [role=registrant]/name/	identification of the agent that registered the sample, with contact information. Role = 'registrant'	Publisher	.	String. The name of the entity that holds, archives, publishes prints, distributes, releases, issues, or produces the resource.
related_resource	link to another resource via identifier for the target resource, with a relationship type, label, and description. Label and description do not have matching properties in DataCite.	RelatedIdentifiers	.	
related_resource/relationship	<u>nature of relationship between sample and resource that is the target of the relationship. See vocabulary in development:</u> https://docs.google.com/spreadsheets/d/1yk3ZEWzEc1cXBOWb-foCtq3isaBBa95Rv8eA6TlyieM		relationType	DataCite has a vocabulary focused on datasets, some likely values are IsDescribedBy, HasMetadata, IsPartOf (for link to parent sample where relation is a split or physical separate), IsDerivedFrom (link to parent sample where derivation is chemical process). IsDocumentedBy not recommended because of lack of clarity on distinction with 'IsDescribedBy'.
related_resource/target	identifier for the target resource in the relationship. Should be a resolvable URI.		relatedIdentifier	Identifiers of related resources. These must be globally unique identifiers.
X-- related identifier type	no iSamples equivalent. Default to PURL, unless you can determine its one of the the others in the DataCite vocabulary.		relatedIdentifierType	
X-- related resource type general	no iSamples equivalent. If relation is to another sample, use PhysicalObject. Other likely values would be Dataset, DataPaper, Collection, Image, Text. Use Other if nothing matches.		resourceTypeGeneral	

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has_material_sample_object_type	specify the kind of object that the specimen is, use iSamples Material Sample Object Type vocabulary, with ResourceTypeGeneral = PhysicalObject. the label for the Material_Sample_Object_Type is the text value for dataCite ResourceType	ResourceType	.	
X-- constant	PhysicalObject, a constant for all physical samples.	ResourceTypeGeneral	.	ResourceTypeGeneral = PhysicalObject, a constant for all physical samples.
dc_rights	A statement about various property rights associated with the resource, including intellectual property rights. Recommended practice is to refer to a rights statement with a URI. If this is not possible or feasible, a literal value (name, label, or short text) may be provided.	rightsList/rights	rightsList/rights	
keywords	keywords.	Subjects	.	Subject, keyword, classification code, or key phrase describing the resource.
keywords/keyword	An identifier for the nomenclatural (not taxonomic) details of a scientific name.		subject	
keywords/keyword_uri			valueURI	
keywords/scheme_name			subjectScheme	
keywords/scheme_uri	not included for controlled vocabulary terms		schemeURI	
has_context_category/label	For context using controlled vocabulary, the DataCite subject is the identifier/label, for keywords, it is the keyword		subject	
has_context_category/identifier	use URI from isamples sampledFeature vocabulary		valueURI	single object value. Examples add keys for types from other vocabs, e.g. schemaorg, citeproc, bibtex
has_context_category/scheme_name	https://w3id.org/isample/vocabulary/sampledfeature/1.0/sampledfeaturevocabulary		subjectScheme	
has_context_category	Top level context, based on the kind of feature sampled. Specific identification of the sampled feature of interest is done through the SamplingEvent/Feature of Interest property. At least one value a skos:Concept from the iSamples sampledFeature vocabulary.	Subjects [subjectScheme=isamplesContext]	.	

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has_material_category	iSamples top level classifications for material	Subjects[subjectScheme=iSamplesMaterial]	.	
has_material_category/label	For material using controlled vocabulary, the DataCite subject is the identifier/label, for keywords, it is the keyword		subject	
has_material_category/identifier	use URI from iSamples material type vocabulary		valueURI	
has_material_category/scheme_name	use https://w3id.org/isample/vocabulary/material/1.0/materialsvocabulary		subjectScheme	
has_material_sample_object_type/label	repeat label and uri in subjects for DataCite	Subjects[subjectScheme=iSamplesSpecimenType]	subject	
has_material_sample_object_type/identifier			valueURI	
has_material_sample_object_type/scheme_name	https://w3id.org/isample/vocabulary/materialspecimenobjecttype/1.0/conceptscheme	Subjects[subjectScheme=iSamplesSpecimenType]	subjectScheme	
label	a human intelligible string used to identify the material sample; i.e. the name to use for the sample; should be unique in the scope of a sample collection. This will typically be a sample identifier or label assigned by the original collector	Title	.	A name or title by which a resource is known. May be the title of a dataset or the name of a piece of software.
X-- version	Samples don't have versions. metadata version should be specified by the schema property or the update date	Version	.	