

## 3D Microscopy Metadata Standards (3D-MMS)

### Publication Metadata

The Publication category includes five optional metadata fields that identify publications, pre-prints, and protocols that are related to the dataset.

Field Name	Definition	Allowable Values	Occurrence	Required for Brain Image Library Submission	Supports Digital Object Identifier (DOI)	DataCite (ID: Property)	Open Microscopy Environment (Element: Attribute)
relatedIdentifier	Alphanumeric code that uniquely identifies the publication or other related information.	Free text	0-n	No	Yes	<a href="#">12: relatedIdentifier</a>	None
relatedIdentifierType	Identifying scheme used in relatedIdentifier. Recommended: DOI, PMID.	arXiv* DOI* ISBN* PMID*	0-n	No	Yes	<a href="#">12.a: relatedIdentifierType</a>	None
PMCID	PubMed Central identifier (PMCID; if applicable).	Free text	0-n	No	No	None	None
relationType	DataCite descriptive identifier specifying the relationship. Recommended: IsCitedBy (for publications), IsDocumentedBy (for protocols).	IsCitedBy IsDocumentedBy	0-n	No	Yes	<a href="#">12.b: relationType</a>	None
Citation	Complete citation for the publication or other related information.	Free text	0-n	No	No	None	None

#### Occurrence

0-n = optional and repeatable  
0-1 = optional, but not repeatable  
1-n = required and repeatable  
1 = required, but not repeatable

\* For more information on the identifier schemes, see the arXiv distribution service (<https://arxiv.org/>), the international digital object identifier (DOI) foundation (<https://www.doi.org/>), the US International Standard Book Number (ISBN) Agency (<http://www.isbn.org/>), and the PubMed Identifiers (PMID) on the PubMed website (<https://pubmed.ncbi.nlm.nih.gov/>).