

3D Microscopy Metadata Standards (3D-MMS)

Specimen Category

The Specimen category includes 12 metadata fields that describe the donor, organ, and sample being studied.

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)
Donor							
localID	Local (lab) reference ID attached to the donor organism (if any).	Free text	0-1	No	No	None	None
Species	Common organism classification name for the donor organism (e.g., mouse, human).	Free text	1	Yes	No	None	None
NCBITaxonomy	National Center for Biotechnology Information (NCBI) taxonomy code for species of the donor organism.	Free text	1	Yes	No	None	None
Age	Age of the donor.	Number	1	Yes	No	None	None
ageUnit	Unit for the age of the donor.	Days Months Years	1	Yes	No	None	None
Sex	Sex of the donor.	Female Male Unknown	1	Yes	No	None	None
Genotype	If relevant, genotype or transgenic line information (e.g., Strain name, Cre driver line, Reporter name).	Free text	0-1	No	No	None	None
Organ							

3D Microscopy Metadata Standards (3D-MMS)

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)
organLocalID	Local (lab) reference ID attached to the organ (if any).	Free text	0-1	No	No	None	None
organName	Component part of the nervous system where the tissue is found (e.g., brain, spinal cord).	Free text	0-1	No	No	None	None
Sample							
sampleLocalID	Local (lab) reference ID attached to the sample (if any).	Free text	0-1	No	No	None	None
Atlas	If an atlas was used to describe the location, list the name of the atlas. Suggested values: Allen Mouse V1, Allen Mouse V2, Allen Mouse V3, Allen Human 34yrs Whole Brain, Whole Brain.	Free text	0-1	No	No	None	None
Location	(Sub)location or region where the tissue is found.	Free text	0-1	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