Dataset Category

The Dataset category includes 14 metadata fields that provide a high-level description of the data including title, abstract, methods, imaging modality, and how the data can be reused.

| Field Name | Definition | Allowable Values | Occurrence | Required for Brain Image Library Submission | Support Digital Object Identifier (DOI) | DataCite (ID: Property) | Open Microscopy Environment (Element: Attribute) | | |
|--------------------|--|------------------|------------|--|---|----------------------------|---|--|--|
| Short Descriptions | | | | | | | | | |
| Title | Short phrase by which the specific dataset is known (e.g., title of a book). | Free text | 1 | Yes | Yes | 3: Title | Dataset: Description (can be mapped) | | |
| socialMedia | Suggested short social media text describing the dataset to be posted after the dataset is available (can include tags). May be same as the title. | Free text | 0-1 | No | No | None | Dataset: Description (can be mapped) | | |
| Subject | Description of the dataset using keywords, classification codes, or key phrases. | Free text | 0-1 | No | Yes | 6: Subject | None | | |
| subjectScheme | Name of subject scheme or classification (e.g., Allen Mouse Brain Atlas Version2). | Free text | 0-1 | No | No | None | None | | |
| Rights | Any rights information for the dataset. May be the name of the license and can include embargo or other use restrictions on data (see https://spdx.org/licenses). | Free text | 1 | Yes | Yes | 16: Rights | RightsHeld: None (can be mapped) | | |
| rightsURI | If using a common license and licensing information is online, provide a link to the license. | Free text | 1 | Yes | Yes | 16.a: rightsURI | RightsHeld: None (can be mapped) | | |

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|----------------------|---|---|------------|--|---|----------------------------|--|
| rightsIdentifier | If using a common license, provide the Software Package Data Exchange (SPDX) code for the license (see https://spdx.org/licenses). | Free text | 1 | Yes | Yes | 16.b: rightsldentifier | RightsHeld: None (can be mapped) |
| Image | Suggested static image or animated GIF to associate with the social media and/or web landing page for the dataset. | Free text | 0-1 | No | No | None | None |
| generalModality | Description of the general modality of the dataset. | Cell morphology Connectivity Population imaging Spatial transcriptomics Other | 0-1 | No | No | None | Experiment: Type |
| generalModalityOther | If generalModality is Other, list the modality used. | Free text | 0-1 | No | No | None | Experiment: Type |
| Technique | Description of the technique used. | Anterograde tracing DARTFISH fMOST MERFISH Patch-seq Retrograde Retrograde tracing smFISH Transynaptic tracing TRIO tracing Other | 0-1 | No | No | | Experiment: Type |

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|-----------------------|---|------------------|------------|--|---|---|---|
| techniqueOther | If Technique is Other, list the technique used. | Free text | 0-1 | No | No | None | Experiment: Type |
| Detailed Descriptions | | | | | | | |
| Abstract | Additional descriptive information about the dataset, including a brief description and the context in which it was created (e.g., aim of the experiment, what the dataset is expected to show). This abstract will be used on the Digital Object Identifier (DOI) landing page and will be the primary description of the dataset; ideally 100+ words. | Free text | 1 | Yes | Yes | 17: Description 17.a: descriptionType (can be mapped) | Dataset: Description (can be mapped) |
| Methods | Additional descriptive information about how the biological materials were processed by the laboratories involved. May be used to describe the methodology (or protocols) used. | Free text | 0-1 | No | Yes | 17: Description 17.a: descriptionType (can be mapped) | Dataset: Description (can be mapped) |
| technicalInfo | Additional descriptive information about how the data was processed computationally by the laboratories involved. May be used to describe the computational processing | Free text | 0-1 | No | Yes | 17: Description 17.a: descriptionType (can be mapped) | <u>Dataset:</u> <u>Description</u> (can be mapped) |

| Field Name | Definition | Allowable Values | Occurrence | Required for | Support | DataCite | Open Microscopy |
|------------|-----------------------------|------------------|------------|--------------|----------------|----------------|-----------------|
| | | | | Brain Image | Digital Object | (ID: Property) | Environment |
| | | | | Library | Identifier | | (Element: |
| | | | | Submission | (DOI) | | Attribute) |
| | done with software versions | | | | | | |
| | and parameters. | | | | | | |

Occurrence

0-n = optional and repeatable

0-1 = optional, but not repeatable

1-n = required and repeatable

1 = required, but not repeatable