ezEML+MOTHER is a tool for assisting scientists with the specification of the metadata that must be supplied with the histology images to be shared. This tool leverages the ezEML tool, which was created by the Environmental Data Initiative (EDI), for data provenance and adds metadata specific for MOTHER.

The use of the ezEML+MOTHER Web application requires a login, which can be automatically requested with email verification required. Then you can work on documents across sessions and can submit an image with metadata to MOTHER.

Navigation

Use the top navigation bar to create or open a document, or to upload/download an XML file.

Use the left navigation bar to enter in the various metadata. The left navigation bar indicates the high-level topics within the tool. Essentially, the items above the first line are the topics leveraged from ezEML, with the exception of Image, which has been redesigned for MOTHER. The Donor and Immunohistochemistry topics are specific to MOTHER.

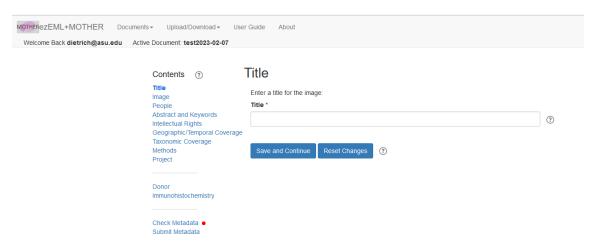


Image:

The Name and Data Format fields will be automatically filled by the selection of the Upload Image. For histology images, enter histology for Image Type. Additional Info is a text area for any additional information to share about the image that is not in the Donor or Immunohistochemistry forms. For example, any measurements of the donor taken.

mage ②		
Enter information about the image:		
Name *		
Image Type (e.g., histology) *		
Data Format (e.g., tif) *		
Upload Image	Uploaded Image None	
Browse No file selected.		
Additional Info		
Upload and Continue Reset Ch		,,,,

People: At least one creator and at least one contact is required.

- Creators: an author of the data, i.e. a person responsible for intellectual input into its creation
- Contacts: the designated contact for the data manager
- Associated Parties: involved with the data in some way, e.g., technicians, students, assistants
- Metadata Providers: producing or providing provided the metadata content

Abstract and Keywords:

- Abstract: include any information that does not fit into the structured metadata
- Keywords: terms in support of keyword search in MOTHERDB, e.g. any term describing treatment, disease, pathology, phenotype, toxicology,or toxin/toxicant exposure

Intellectual Rights: CCO or CC BY can be chosen with a radio button. Other licenses can be specified.

Geographic/Temporal Coverage: Specifications can be included if applicable for data related to the geographic or temporal information for the donor animal

Taxonomic Coverage: Required specification of the taxa for the donor animal; Supports lookup in select taxonomic authorities based on the Taxon Scientific Name

Methods: Method steps are descriptions of specific steps of the method employed when collecting data. They are intended to be descriptive, i.e., human-readable rather than machine-readable. These may include text descriptions of the procedures, relevant literature, software, instrumentation, source data and any quality control measures taken.

Project: Documents the research context with a required title and optional abstract, and can include the specification of project personnel with various roles, funding awards, and related projects.

Donor: Details information regarding the donor animal, including its life stage, reproduction cycle type, and stage of cycle. Also provides details on the histology slide, such as fixation, stain, and section thickness.

Immunohistochemistry: If the image is immunohistochemistry, provide the target protein, detection method, as well as primary and secondary antibodies.

Check Metadata: Checks the completeness of the metadata

red: errors exist; orange: warnings exist; green: no warnings or errors

Submit Metadata: Submits the metadata and the image file for curation into MOTHER. Please download the zip file for your records.

Donor ID* Gender* Years Days Life Stage* Specimen Sequence Number* Specimen Tissue* Ovary Position* Location Day Of Cycle Cycle Type Stage Of Cycle Unspecified Follicular values Luteal Values Section Thickness* Units* Fixation* Other Fixation Stain Light Type Sudan Stain Value Other Fluorescent Stain Stain Fluorescent Type Other Fluorescent Stain Other Electron Stain	currently: menstrual, estrous
Sequence Number* Specimen Tissue* Ovary Position* Location Day Of Cycle Cycle Type Stage Of Cycle Unspecified Section Thickness Units* Section Thickness* Units* Section Thickness* Fixation* Other Fixation Stain * Stain Light Type Sudan Stain Value Other Light Stain	MOTHER needs input for cy
Section Sequence Slide ID * Number Section Thickness * Units * Fixation * Other Fixation Stain * Stain Light Type Sudan Stain Value Other Light Stain	species.
Stain Light Type Sudan Stain Value Other Light Stain	Slide ID: must be unique within Donor ID Section Sequence Number: on submitting a collection of imagallowing for a 3d reconstruction Section Thickness: Microns, N
Magnification * Microscope Maker Microscope Model Microscope Notes	Fixation and Stain are required Selections enable/disable dropdowns. Fixation: Neutral Buffered Form 10, Paraformaldehyde, Davids Neutral Buffered Formalin5 acc Acid, Bouins, Other

Specimen Sequence Number: This is typically 1, unless there are multiple ovaries collected for the same donor.

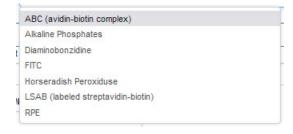
Ovary Position: Left, Right, Unspecified

Specimen Location: whole ovary, ovarian cortex, ovarian medulla, follicle, corpus luteum, unspecified

MOTHER needs input for other species for specimen location.

If your slide image is immunohistochemistry, all Immunohistochemistry fields with an * are required. See image below of dropdown values for Detection Method. Is this image immunohistochemistry? Yes v Target Protein * **Detection Method** ABC (avidin-biotin complex) Primary Antibody Dilution * Target Species * Host Species * Cat Number * Lot Number * Source Name * Source City * Source State * RRID Clonality Secondary Antibody Target Species * Host Species * Dilution * Lot Number * Cat Number * Source Name * Source City * Source State * RRID

Detection Methods Dropdown:



Reset Changes