

Mammalian database and standard ontology of microscopy

Objectives

- Development of ontology that describes microscopy (meta)data including scanning electron microscope (SEM) data
- Support for existing image data framework such as OME data model which is a de facto standard microscopy image metadata schema.

Tasks

- Translate the OME data model described in XML into RDF
- Add new vocabularies for electron microscopy experiments and images as an extension of RDF version of OME data model
- Create a prototype database of electron microscopy image data obtained using RIKEN MetaDatabase

Ontology design

The Open Microscopy Environment (**OME**), the Ontology for Biomedical Investigations (**OB**I) and the Cellular Microscopy Phenotype Ontology (**CMPO**) can be used.

References

- The Open Microscopy Environment (OME)
<http://www.openmicroscopy.org/site>
- RIKEN MetaDatabase
<http://metadb.riken.jp/>

Participants

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