

Resource Summary Report

Generated by [NIF](#) on Aug 28, 2026

OME-TIFF Format

RRID:SCR_002636

Type: Tool

Proper Citation

OME-TIFF Format (RRID:SCR_002636)

Resource Information

URL: <http://www.openmicroscopy.org/site/support/ome-model/ome-tiff/>

Proper Citation: OME-TIFF Format (RRID:SCR_002636)

Description: A standardized file format for multidimensional microscopy image data. OME-TIFF maximizes the respective strengths of OME-XML and TIFF. It takes advantage of the rich metadata defined in OME-XML while retaining the pixel structure in multi-page TIF format for compatibility with many image-processing applications. An OME-TIFF dataset has the following characteristics: * Image planes are stored within one multi-page TIFF file, or across multiple TIFF files. Any image organization is feasible. * A complete OME-XML metadata block describing the dataset is embedded in each TIFF file's header. Thus, even if some of the TIFF files in a dataset are misplaced, the metadata remains intact. * The OME-XML metadata block may contain anything allowed in a standard OME-XML file. * OME-TIFF uses the standard TIFF mechanism for storing one or more image planes in each of the constituent files, instead of encoding pixels as base64 chunks within the XML. Since TIFF is an image format, it makes sense to only use OME-TIFF as opposed to OME-XML, when there is at least one image plane.

Abbreviations: OME-TIFF

Synonyms: OME-TIFF: Open Microscopy Environment Tagged Image File Format, Open Microscopy Environment Tagged Image File Format

Resource Type: data or information resource, narrative resource, standard specification

Defining Citation: [PMID:15892875](#)

Keywords: microscopy, format, archiving, data management, annotation, mark up, metadata standard, standard, tiff, ome-xml

Funding: Wellcome Trust 68046

Availability: Free, Available for download, Freely available

Resource Name: OME-TIFF Format

Resource ID: SCR_002636

Alternate IDs: nlx_156061

Record Creation Time: 20220129T080214+0000

Record Last Update: 20260821T193646+0000

Ratings and Alerts

No rating or validation information has been found for OME-TIFF Format.

No alerts have been found for OME-TIFF Format.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.