

# Resource Summary Report

Generated by [RRID](#) on Sep 10, 2026

## Subcellular Location Image Finder

RRID:SCR\_006723

Type: Tool

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### Proper Citation

Subcellular Location Image Finder (RRID:SCR\_006723)

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### Resource Information

**URL:** <http://murphylab.web.cmu.edu/services/SLIF/>

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**Description:** SLIF finds fluorescence microscope images in on-line journal articles, and indexes them according to cell line, proteins visualized, and resolution. Images can be accessed via the SLIF Web database. SLIF takes on-line papers and scans them for figures that contain fluorescence microscope images (FMIs). Figures typically contain multiple FMIs, to SLIF must segment these images into individual FMIs. When the FMI images are extracted, annotations for the images (for instance, names of proteins and cell-lines) are also extracted from the accompanying caption text. Protein annotation are also used to link to external databases, such as the Gene Ontology DB. The more detailed process includes: segmentation of images into panels; panel classification, to find FMIs; segmentation of the caption, to find which portions of the caption apply to which panels; text-based entity extraction; matching of extracted entities to database entries; extraction of panel labels from text and figures; and alignment of the text segments to the panels. Extracted FMIs are processed to find subcellular location features (SLFs), and the resulting analyzed, annotated figures are stored in a database, which is accessible via SQL queries.

**Abbreviations:** SLIF

**Synonyms:** SLIF - Subcellular Location Image Finder

**Resource Type:** data or information resource, database, image

**Defining Citation:** [PMID:17990497](#)

**Keywords:** fluorescence, annotation, cell, journal, microscope, protein, subcellular, image, cell line, fluorescence microscope, information retrieval, data mining

**Funding:** Commonwealth of Pennsylvania Tobacco Settlement Fund ;  
National Center for Integrative Biomedical Informatics ;

NIGMS R01 GM078622;  
NIDA U54 DA021519

**Resource Name:** Subcellular Location Image Finder

**Resource ID:** SCR\_006723

**Alternate IDs:** nif-0000-10308

**Record Creation Time:** 20220129T080237+0000

**Record Last Update:** 20260905T133136+0000

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## Ratings and Alerts

No rating or validation information has been found for Subcellular Location Image Finder.

No alerts have been found for Subcellular Location Image Finder.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 1 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [RRID](#) .

Alt??nbay D, et al. (2022) Fixation Stability and Preferred Retinal Locus in Advanced Age-Related Macular Degeneration. Turkish journal of ophthalmology, 52(1), 23.