

Resource Summary Report

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Subcellular Location Image Finder

RRID:SCR_006723

Type: Tool

Proper Citation

Subcellular Location Image Finder (RRID:SCR_006723)

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: image, data or information resource, database

Defining Citation: [PMID:17990497](#)

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

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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: 20260808T190359+0000

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.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

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

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.