

Resource Summary Report

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NIH-CIDI Segmentation of PET Images based on Affinity Propagation Clustering

RRID:SCR_014151

Type: Tool

Proper Citation

NIH-CIDI Segmentation of PET Images based on Affinity Propagation Clustering
(RRID:SCR_014151)

Resource Information

URL: http://www.nitrc.org/projects/ap_seg_2013_nih/

Proper Citation: NIH-CIDI Segmentation of PET Images based on Affinity Propagation Clustering (RRID:SCR_014151)

Description: A MATLAB GUI for segmenting and quantifying PET images with multi-focal and diffuse uptakes. It imports a PET image and allows the user to draw region of interests (ROIs) in 2D or 3D to roughly separate the object of interest from the background. The areas are then segmented using a PET image segmentation method based on Affinity Propagation clustering to cluster the image intensities into meaningful groups. For quantification, the Standardized Uptake Value measurements of the binary or the user defined ROI are SUVmax, SUVmean, and Volume (mm³) and can be exported into an excel sheet.

Resource Type: software application, data processing software, segmentation software, image analysis software, software resource

Keywords: matlab gui, pet image, region of interest, 2d, 3d, segmentation, affinity propagation clustering

Funding: Howard Hughes Medical Institute ;
Center for Infectious Disease Imaging ;
NIAID Intramural research program ;
NIBIB ;
NIH Directors New Innovator Award OD006492;
NIAD R01AI079590;
NIAID R01A1035272

Availability: Available to the research community

Resource Name: NIH-CIDI Segmentation of PET Images based on Affinity Propagation Clustering

Resource ID: SCR_014151

Alternate URLs: http://www.nitrc.org/projects/ap_seg_2013_nih

License: GNU General Public License

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Ratings and Alerts

No rating or validation information has been found for NIH-CIDI Segmentation of PET Images based on Affinity Propagation Clustering.

No alerts have been found for NIH-CIDI Segmentation of PET Images based on Affinity Propagation Clustering.

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 [kravitz2](#) .

Chauhan VS, et al. (2010) Vesicular stomatitis virus infects resident cells of the central nervous system and induces replication-dependent inflammatory responses. Virology, 400(2), 187.