Resource Summary Report

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spotSegmentation

RRID:SCR_001298
Type: Tool

Proper Citation

spotSegmentation (RRID:SCR_001298)

Resource Information

URL: https://rdrr.io/bioc/spotSegmentation/

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Description: Model-based software package for processing microarray images so as to estimate foreground and background intensities. The method starts with a very simple but effective automatic gridding method, and then proceeds in two steps. The first step applies model-based clustering to the distribution of pixel intensities, using the Bayesian Information Criterion (BIC) to choose the number of groups up to a maximum of three. The second step is spatial, finding the large spatially connected components in each cluster of pixels. The method thus combines the strengths of the histogram-based and spatial approaches. It deals effectively with inner holes in spots and with artifacts. It also provides a formal inferential basis for deciding when the spot is blank, namely when the BIC favors one group over two or three.

Abbreviations: spotSegmentation

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

Defining Citation: PMID:15845656

Keywords: gridding, segmentation, microarray, preprocessing, quality control, two channel

Availability: Free, Available for download, Freely available

Resource Name: spotSegmentation

Resource ID: SCR_001298

Alternate IDs: OMICS_02037

Alternate URLs:
http://www.bioconductor.org/packages/release/bioc/html/spotSegmentation.html

License: GNU General Public License, v2 or newer

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Ratings and Alerts

No rating or validation information has been found for spotSegmentation.

No alerts have been found for spotSegmentation.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We have not found any literature mentions for this resource.