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detection of cell cell interactions via photocatalytic cell

May 13 2024

a new targeting modality based transcellular labeling technology called photocatalytic cell tagging enables monitoring of cell cell interactions when combined with multiomics single cell

livecell a large scale dataset for label free live cell

Apr 12 2024

here we present livecell a large high quality manually annotated and expert validated dataset of phase contrast images consisting of over 1 6 million cells from a diverse set of cell

deep learning for cellular image analysis nature methods

Mar 11 2024

typical tasks include unsupervised image exploration comparing features of collections of images for example by identifying changes in cellular morphology in an imaging based drug screen image

computerized cell tracking current methods tools and

Feb 10 2024

computational cell tracking can save time labor and accelerate the process cell tracking methods can classified into tracking by detection model evaluation and filtering image segmentation is performed through four approaches including thresholding region growing edge detection and pattern matching

cell detection papers with code

Jan 09 2024

cell tracking by detection using elliptical bounding boxes lucaskirsten deep cell tracking ebb 7 oct 2023 this work proposes a new approach based on the classical tracking by detection paradigm that alleviates the requirement of annotated data

keras r cnn library for cell detection in biological images

Dec 08 2023

object detection methods can be useful for identifying individual cells as well

as their phenotype in one step state of the art deep learning for object detection is poised to improve the accuracy and efficiency of biological image analysis

cell surface labeling and detection of protein tyrosine

Nov 07 2023

we targeted protein tyrosine kinase 7 ptk7 a prominent cancer marker and demonstrated aptamer mediated biotin transfer to specific lysine residues on the extracellular domain of the protein this allowed for tracking of ptk7 expression localization and cellular internalization

frontiers cnn based cell analysis from image to

Oct 06 2023

the analysis part of the pipeline features a suite of convolutional neural networks estimating different cell metrics from the reconstructed image that is cell surface area cell dry mass cell length and cell thickness

a review on cell detection and segmentation in microscopic

Sep 05 2023

image analysis of cells and tissues is an important area of research since it forms a basis for large number of biomedical applications many complexities such

hallmarks and detection techniques of cellular senescence and

Aug 04 2023

hallmarks and detection techniques of cellular senescence and cellular ageing in immune cells pmc journal list aging cell v 20 2 2021 feb pmc7884036 as a library nlm provides access to scientific literature

graph embedded online learning for cell detection and tumour

Jul 03 2023

abstract cell detection in microscopy images can provide useful clinical information most methods based on deep learning for cell detection are fully supervised without enough labelled samples the accuracy of these methods would drop rapidly

detect cell using edge detection and morphology matlab

Jun 02 2023

this example shows how to detect a cell using edge detection and basic morphology an object can be easily detected in an image if the object has sufficient contrast from the background

localized visualization and autonomous detection of cell

May 01 2023

we present a one pot molecular toolbox which we term the split proximity circuit spc for the autonomous detection and visualization of cell surface receptor clusters detection was powered by antibody recognition and a series of autonomous dna hybridization to achieve localized enzyme free signal amplification

cell cell recognition wikipedia

Mar 31 2023

fundamentals cell cell recognition occurs when two molecules restricted to the plasma membranes of different cells bind to each other triggering a response for communication cooperation transport defense and or growth

circulating tumor cell detection technologies and clinical

Feb 27 2023

figure 1 schematic representation of circulating tumor cells ctcs detaching from primary tumor intravasating into the bloodstream and circulating to colonize distant organs after extravasating where they create secondary metastasis

u net deep learning for cell counting detection and

Jan 29 2023

u net is a generic deep learning solution for frequently occurring quantification tasks such as cell detection and shape measurements in biomedical image data

recent progress in co detection of single cell transcripts

Dec 28 2022

co analysis of transcripts and proteins from the same single cells opens the way to decipher complex rna regulatory frameworks and phenotypes facilitating the understanding of cellular fate and function regulations discovery of novel cell types and construction of a high resolution cell atlas

an integrated electrochemical nanodevice for intracellular

Nov 26 2022

we address this challenge by combining the ionic current rectification property of nanopipette reactor with duplex specific nuclease assisted hybridization chain reaction for signal amplification to realize a simple and practical intracellular nanosensor with minimal invasiveness which enables single cell collection and electrochemical detectio

aptamer based cell recognition and detection ingenta connect

Oct 26 2022

specific recognition and detection of malignant cells are critical for disease diagnosis therapy and prognosis

cell detection in pathology and microscopy images with multi

Sep 24 2022

zhenbing liu huihua yang zhiwei cao yubei he zhen ma yiyi chen 1576 accesses 25 citations explore all metrics abstract automated nucleus cell detection is usually considered as the basis and a critical prerequisite step of computer assisted pathology and microscopy image analysis

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