

Resource Summary Report

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scGraph2Vec

RRID:SCR_025322

Type: Tool

Proper Citation

scGraph2Vec (RRID:SCR_025322)

Resource Information

URL: <https://github.com/LPH-BIG/scGraph2Vec>

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Description: Software tool for gene embedding augmented by Graph Neural Network and single-cell omics data. Performs prediction and module detection simultaneously, and enhances high-dimensional information of gene embedding. Helps identify gene modules in specific tissue contexts, providing new ideas for studying gene regulatory functions in tissues and helps elucidate influence of regulatory genes on biological processes in specific tissue environment and infer more disease-related genes to explain disease risk.

Abbreviations: scGraph2Vec

Resource Type: software application, source code, data analysis software, data processing software, software resource

Keywords: Graph Neural Network, gene embedding, single-cell omics data, prediction and module detection, information of gene embedding, identify gene modules, identify gene modules in specific tissue contexts,

Funding:

Availability: Free, Available for download, Freely available

Resource Name: scGraph2Vec

Resource ID: SCR_025322

License: MIT license

Record Creation Time: 20240514T053253+0000

Record Last Update: 20250517T060618+0000

Ratings and Alerts

No rating or validation information has been found for scGraph2Vec.

No alerts have been found for scGraph2Vec.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 2 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Lin S, et al. (2024) scGraph2Vec: a deep generative model for gene embedding augmented by graph neural network and single-cell omics data. GigaScience, 13.

Yuan L, et al. (2024) scRGCL: a cell type annotation method for single-cell RNA-seq data using residual graph convolutional neural network with contrastive learning. Briefings in bioinformatics, 26(1).