Resource Summary Report

Generated by PRECISE-TBI on Jul 31, 2026

PyMINEr

RRID:SCR_016990
Type: Tool

Proper Citation

PyMINEr (RRID:SCR_016990)

Resource Information

URL: https://www.sciencescott.com/pyminer

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Description: Software tool to automate cell type identification, cell type-specific pathway analyses, graph theory-based analysis of gene regulation, and detection of autocrine-paracrine signaling networks. Finds Gene and Autocrine-Paracrine Networks from Human Islet scRNA-Seq.

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

Defining Citation: PMID:30759402

Keywords: automate, cell, type, identification, pathway, analysis, gene, regulation, autocrine, paracrine, signaling, network, human, islet, scRNA-seq, dataset

Funding: NIDDK R24 DK096518;
NHLBI R24 HL123482;
NIDDK R01 DK115791;
Fraternal Order of Eagles Diabetes Research Center ;
University of Iowa Center for Gene Therapy ;
Carver Chair in Molecular Medicine ;
NIGMS T32 GM082729

Availability: Free, Available for download, Freely available, Tutorial available

Resource Name: PyMINEr

Resource ID: SCR_016990

Record Creation Time: 20220129T080333+0000

Record Last Update: 20260731T043005+0000

Ratings and Alerts

No rating or validation information has been found for PyMINEr.

No alerts have been found for PyMINEr.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 5 mentions in open access literature.

Listed below are recent publications. The full list is available at PRECISE-TBI .

Su J, et al. (2024) Cell-cell communication: new insights and clinical implications. Signal transduction and targeted therapy, 9(1), 196.

Tyler SR, et al. (2024) Anti-correlated feature selection prevents false discovery of subpopulations in scRNAseq. Nature communications, 15(1), 699.

Tyler SR, et al. (2021) Merged Affinity Network Association Clustering: Joint multi-omic/clinical clustering to identify disease endotypes. Cell reports, 35(2), 108975.

Armingol E, et al. (2021) Deciphering cell-cell interactions and communication from gene expression. Nature reviews. Genetics, 22(2), 71.

Tyler SR, et al. (2019) PyMINEr Finds Gene and Autocrine-Paracrine Networks from Human Islet scRNA-Seq. Cell reports, 26(7), 1951.