

Resource Summary Report

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DoubletFinder

RRID:SCR_018771

Type: Tool

Proper Citation

DoubletFinder (RRID:SCR_018771)

Resource Information

URL: <https://github.com/chris-mcginnis-ucsf/DoubletFinder>

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Description: Software R package that predicts doublets in single cell RNA sequencing data. Doublet detection in single cell RNA sequencing data using artificial nearest neighbors. Identifies doublets using only gene expression data.

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

Defining Citation: [PMID:30954475](#)

Keywords: Doublet detection in single cell RNA, single cell RNA, doublet detection, RNA sequencing data, gene expression data, artificial nearest neighbors

Funding: Department of Defense Breast Cancer Research Program ;
NICHD DP2 HD080351;
NSF MCB 1330864;
UCSF Center for Cellular Construction ;
NSF Science and Technology Center ;
Damon Runyon Cancer Research Foundation

Availability: Free, Available for download, Freely available

Resource Name: DoubletFinder

Resource ID: SCR_018771

Record Creation Time: 20220129T080341+0000

Record Last Update: 20260731T043034+0000

Ratings and Alerts

No rating or validation information has been found for DoubletFinder.

No alerts have been found for DoubletFinder.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 920 mentions in open access literature.

Listed below are recent publications. The full list is available at [PRECISE-TBI](#) .

Zou Y, et al. (2026) Gut microbiota dysbiosis exacerbates acute pancreatitis via Escherichia coli-driven neutrophil heterogeneity and NETosis. Gut microbes, 18(1), 2606480.

Zhou X, et al. (2026) Single-Cell RNA Sequencing of Thyroid Tissues Reveals Pathogenesis of Graves' Disease. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(1), e08449.

Hu X, et al. (2026) Pan-cancer bone metastasis atlas at single-cell resolution identifies a distinct tumor-associated macrophage subset for mediating Denosumab-induced immunosensitization in lung cancer bone metastasis. International journal of biological sciences, 22(1), 365.

Cheng H, et al. (2026) Comparative single-cell transcriptomic map reveals divergence in leaves between two cotton species at cell type resolution. Journal of advanced research, 79, 121.

Mearelli M, et al. (2026) C9orf72 Repeat Expansion Induces Metabolic Dysfunction in Human iPSC-Derived Microglia and Modulates Glial-Neuronal Crosstalk. Glia, 74(1), e70080.

Bi R, et al. (2026) Integrin inhibition facilitates fibrocartilaginous transformation in connective tissue in osteoarthritis. Science advances, 12(1), eady4112.

Liang Z, et al. (2026) Identification of key ferroptosis-related targets in colorectal cancer: A transcriptomics-driven study via machine learning and AUcell analysis of single-cell RNA-sequencing. Journal of Cancer, 17(1), 32.

Liang Y, et al. (2026) SLC39A10 drives M2 macrophage polarization and gastric cancer progression through the MAPK14(p38??) pathway. iScience, 29(1), 114400.

Song G, et al. (2026) Excessive Kynurenine Metabolism Impairs Lysosomal acidification and Triggers mtDNA Release via the AHR/CISH/ATP6V1A Axis in Decidual Macrophages Associated with Unexplained Recurrent Pregnancy Loss. International journal of biological sciences, 22(2), 895.

Meghdadi B, et al. (2026) Digital twins for in vivo metabolic flux estimations in patients with brain cancer. *Cell metabolism*, 38(1), 228.

Jani S, et al. (2026) Circulating Neoantigen- and Viral Oncoprotein-Specific CD8⁺ T Cells Share a Transcriptional Signature. *Cancer immunology research*, 14(1), 22.

Aron L, et al. (2025) Lithium deficiency and the onset of Alzheimer's disease. *Nature*, 645(8081), 712.

Chang W, et al. (2025) Pygo2⁺ T cells possess immunosuppressive features and inferior immunotherapeutic response in gastric cancer. *Frontiers in immunology*, 16, 1596434.

Ding Y, et al. (2025) Integrative Omics Reveals Glutamine Catabolism-Driven Apoptotic Suppression in Monocytes upon Mechanical Unloading. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 12(42), e00585.

Liao F, et al. (2025) The role of FOXP2-FBXO32 in breast cancer tumorigenesis: Insights into ribosome-associated pathways. *Thoracic cancer*, 16(1), e15482.

Li N, et al. (2025) Single-cell transcriptomic profiling uncovers cellular complexity and microenvironment in gastric tumorigenesis associated with *Helicobacter pylori*. *Journal of advanced research*, 74, 471.

Zhang Z, et al. (2025) MLKL-USP7-UBA52 signaling is indispensable for autophagy in brain through maintaining ubiquitin homeostasis. *Autophagy*, 21(2), 424.

Vogt KE, et al. (2025) Sleep need driven oscillation of glutamate synaptic phenotype. *eLife*, 13.

Koczkowska M, et al. (2025) Identifying differentiation markers between dermal fibroblasts and adipose-derived mesenchymal stromal cells (AD-MSCs) in human visceral and subcutaneous tissues using single-cell transcriptomics. *Stem cell research & therapy*, 16(1), 64.

Shen Y, et al. (2025) Exploring Core Genes Associated with Sepsis and Systemic Inflammatory Response Syndrome Using Single-Cell Sequencing Technology. *Journal of inflammation research*, 18, 1815.