

Resource Summary Report

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CellPhoneDB

RRID:SCR_017054

Type: Tool

Proper Citation

CellPhoneDB (RRID:SCR_017054)

Resource Information

URL: <https://www.cellphonedb.org/>

Proper Citation: CellPhoneDB (RRID:SCR_017054)

Description: Collection of publicly available data of curated receptors, ligands and their interactions. Integrates existing datasets that pertain to cellular communication and new manually reviewed information. Used to search for particular ligand or receptor or to interrogate single cell transcriptomics data.

Resource Type: database, data or information resource

Defining Citation: [PMID:30429548](#)

Keywords: collection, publicly, available, data, curated, receptor, ligand, interaction, heterometric, complex, dataset, cellular, transcriptomic, FASEB list

Availability: Free, Available for download, Freely available

Resource Name: CellPhoneDB

Resource ID: SCR_017054

Alternate URLs: <https://github.com/Teichlab/cellphonedb>

License: MIT

Record Creation Time: 20220129T080333+0000

Record Last Update: 20260805T044405+0000

Ratings and Alerts

No rating or validation information has been found for CellPhoneDB.

No alerts have been found for CellPhoneDB.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 367 mentions in open access literature.

Listed below are recent publications. The full list is available at [T1D](#).

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

Fan X, et al. (2025) FGF19-Activated Hepatic Stellate Cells Release ANGPTL4 that Promotes Colorectal Cancer Liver Metastasis. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 12(7), e2413525.

Li Y, et al. (2025) Single-Cell Transcriptomic Landscape Deciphers Intratumoral Heterogeneity and Subtypes of Acral and Mucosal Melanomas. Clinical cancer research : an official journal of the American Association for Cancer Research, 31(12), 2495.

Teng X, et al. (2025) Calpain-2-Mediated Endothelial Focal Adhesion Disruption in Thoracic Aortic Dissection. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 12(25), e2501112.

Wang Z, et al. (2025) Epithelial and macrophage cell interaction in cervical cancer through single-cell RNA-sequencing and spatial analysis. Frontiers in immunology, 16, 1537785.

Liu L, et al. (2025) Single-cell profiling uncovers the intricate pathological niche diversity in brain, lymph node, bone, and adrenal metastases of lung cancer. Discover oncology, 16(1), 512.

Fan F, et al. (2025) Mast cells boost anti-tumor potency of MAIT cells via inflammasome-dependent secretion of IL-18. Nature communications, 16(1), 6074.

Cesaro G, et al. (2025) Advances and challenges in cell-cell communication inference: a comprehensive review of tools, resources, and future directions. Briefings in bioinformatics, 26(3).

Li H, et al. (2025) Multiple cell types guided by neurocytes orchestrate horn bud initiation in dairy goats. Genetics, selection, evolution : GSE, 57(1), 34.

Li H, et al. (2025) Single-cell RNAseq of Angiotensin II-induced abdominal aortic tissue identifies aneurysm-associated cell clusters in C57BL/6J mice. Bioscience reports, 45(5), 343.

Zhang N, et al. (2025) Single-cell transcriptomic analysis revealed the tumor-associated microenvironment of papillary thyroid carcinoma with metastasis. Oncology letters, 29(3), 130.

Qiao T, et al. (2025) Diversity of mast cell subpopulations in the tumor microenvironment of colorectal cancer and their prognostic implications. *Cancer immunology, immunotherapy* : CII, 74(8), 255.

Li F, et al. (2025) Single-cell analysis of ecto-mesenchymal cells derived from the neural crest reveals the regulatory role of P75NTR in odontogenic and osteogenic differentiation. *BMC oral health*, 25(1), 1089.

Lynch KD, et al. (2025) Navigating the Hepatic Immune Landscape With Fine Needle Aspiration of the Liver-An Emerging Technique. *Liver international : official journal of the International Association for the Study of the Liver*, 45(11), e70358.

Turgut Ögme SS, et al. (2025) A mixture of attention experts-embedded flow-based generative model to create synthetic cells in single-cell RNA-Seq datasets. *PLoS computational biology*, 21(10), e1013525.

Wang T, et al. (2025) Single-cell immune landscape of acute kidney injury after cardiac surgery with cardiopulmonary bypass. *Renal failure*, 47(1), 2581506.

Hu X, et al. (2025) Single cell transcriptomic analysis reveals molecular mechanisms of chemoresistance and immune microenvironment remodeling in ovarian cancer. *Discover oncology*, 16(1), 2118.

Li Z, et al. (2025) Spatially resolved multi-omics of human metabolic dysfunction-associated steatotic liver disease. *Nature genetics*, 57(12), 3112.

Wang X, et al. (2025) Elucidating cardiomyocyte heterogeneity and maturation dynamics through integrated single-cell and spatial transcriptomics. *iScience*, 28(1), 111596.

Deng X, et al. (2025) Identification of Five NK Cell-Related Hub Genes in COPD Using Single-Cell RNA Sequencing Analysis. *Journal of inflammation research*, 18, 2169.