

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: data or information resource, database

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: 20260905T133214+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 469 mentions in open access literature.

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

Niu H, et al. (2026) BRD4 Induces Esophageal Squamous Cell Carcinoma Progression via the Wnt/ β -catenin Pathway. *Biochemical genetics*, 64(1), 446.

Ma Q, et al. (2026) Single-Cell Sequencing Reveals Circadian Sensitivity of Noise-Induced Hearing Loss Mediated by Macrophage-Driven NLRP3 Inflammasome Activation. *Neuroscience bulletin*, 42(2), 319.

Chen X, et al. (2026) FOXI3 establishes the ectodermal niche in pharyngeal arches for cranial neural crest cells and their lineages. *Bone research*, 14(1), 16.

Peng XL, et al. (2026) DeCAF defines clinical fibroblast subtypes and multidimensional tumor-stroma crosstalk shaping prognosis and immunotherapy response. *Cell reports. Medicine*, 7(2), 102611.

Ning Y, et al. (2026) Deciphering MMRN1 diagnostic and therapeutic implications in the substantia nigra of Parkinson's disease patients via integrative bioinformatic analysis and multi-omics studies. *Frontiers in aging neuroscience*, 18, 1761327.

Yuan R, et al. (2026) Impaired Mitophagy-Induced Apoptosis of Gingival Fibroblasts Exacerbates Diabetic Periodontitis Via THBS-1/CD36-Dependent Macrophage Activation. *Inflammation*, 49(1), 45.

Schmitt AM, et al. (2026) Spatially-resolved subtype progression reveals metabolic vulnerabilities in pancreatic ductal adenocarcinoma. *Molecular cancer*, 25(1).

Chen A, et al. (2026) Metamorphosing macrophages promote placental fibrosis by upregulating the transcription factor STAT5A. *Journal of translational medicine*, 24(1).

Zhu J, et al. (2026) Single-cell landscape of piglet lung response with *Actinobacillus pleuropneumoniae*. *Virulence*, 17(1), 2646800.

Sun Y, et al. (2026) SPT6 maintains epidermal homeostasis by inhibiting an NF- κ B-positive feedback loop to prevent excessive inflammation. *Cellular & molecular immunology*, 23(5), 471.

Cao H, et al. (2026) snRNA sequencing-based skeletal muscle analysis of Jiangquan black pigs with different average daily growth rates. *Scientific reports*, 16(1).

Li X, et al. (2026) Alveolar macrophage subtypes express cholesterol and inflammation genes in cystic fibrosis. *Life science alliance*, 9(7).

Zhang J, et al. (2026) Prognostic risk model based on cholesterol metabolism-Associated gene module for idiopathic pulmonary fibrosis. *PloS one*, 21(4), e0345310.

Han L, et al. (2026) ASO-based PKM splice-switching therapy increases anti-CTLA-4 antibody efficacy in pancreatic ductal adenocarcinoma. *Cell discovery*, 12(1).

Rong W, et al. (2026) Single-cell atlas reveals the key role of pro-inflammatory IREB2⁺ microglia subsets in the microenvironment of Alzheimer's disease. *Clinical and experimental medicine*, 26(1).

Chai RC, et al. (2026) Multiscale analysis and functional validation of the cellular and genetic determinants of skeletal disease. *bioRxiv : the preprint server for biology*.

Zhu H, et al. (2026) Single-cell and proteomic profiling unveil aberrant immune phenotypes in gestational diabetes following assisted reproductive technology. *Communications biology*, 9(1).

Hu R, et al. (2026) Maternal Fine Particulate Matter Exposure Impairs Inguinal White Adipose Tissue Plasticity in Middle-Aged Male Mouse Offspring. *ACS nano*, 20(6), 5054.

Li J, et al. (2026) Mining Potential Therapeutic Targets for T Cell Exhaustion in Osteoarthritis by Integrating Mendelian Randomization and Single-Cell Sequencing. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 40(2), e71483.

Shen J, et al. (2026) PAD4⁺ neutrophils promote hepatic stellate cell activation and accelerate MASH fibrosis progression via NET-DNA/TAOK1/MAPK pathways. *JCI insight*, 11(1).