

Resource Summary Report

Generated by [NIF](#) on Sep 11, 2026

CellBender

RRID:SCR_025990

Type: Tool

Proper Citation

CellBender (RRID:SCR_025990)

Resource Information

URL: <https://github.com/broadinstitute/CellBender>

Proper Citation: CellBender (RRID:SCR_025990)

Description: Software package for eliminating technical artifacts from high-throughput single-cell RNA sequencing data. Deep generative model for noise removal in droplet-based single-cell RNA sequencing.

Resource Type: software resource, software toolkit, source code

Defining Citation: [PMID:37550580](#)

Keywords: Deep generative model, noise removal, eliminating technical artifacts, high-throughput single-cell RNA sequencing data,

Resource Name: CellBender

Resource ID: SCR_025990

Alternate URLs: <https://cellbender.readthedocs.io/en/latest/>

License: BSD-3-Clause license

Record Creation Time: 20241026T053255+0000

Record Last Update: 20260905T133510+0000

Ratings and Alerts

No rating or validation information has been found for CellBender.

No alerts have been found for CellBender.

Data and Source Information

Usage and Citation Metrics

We found 247 mentions in open access literature.

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

Alvaro-Espinosa L, et al. (2026) MIF-Induced CD74+ Microglia and Macrophages Promote Progression of Brain Metastasis and Are Clinically Relevant across Central Nervous System Disorders. *Cancer research*, 86(13), 3249.

Jaiswal A, et al. (2026) Spatial transcriptomics reveals altered communities and drivers of aberrant epithelia and pro-fibrotic fibroblasts in interstitial lung diseases. *Cell genomics*, 6(3), 101066.

Zamboni M, et al. (2026) The regulatory code of injury-responsive enhancers enables precision cell-state targeting in the CNS. *Nature neuroscience*, 29(2), 337.

Koopmans PJ, et al. (2026) The Age-Dependent Resident Myonuclear Multi-Omic Response to an Acute Skeletal Muscle Hypertrophic Stimulus in Mice. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 13(25), e21633.

Yuan L, et al. (2026) Human assembloids recapitulate periportal liver tissue in vitro. *Nature*, 650(8101), 438.

Lasse Opsahl EL, et al. (2026) Fibroblast STAT3 Activation Drives Organ-Specific Premetastatic Niche Formation. *Cancer research*, 86(1), 22.

Li Y, et al. (2026) Gpc3 selectively suppresses subcutaneous adipogenesis in diet-induced obesity. *PLoS biology*, 24(3), e3003700.

Kraft AW, et al. (2026) Mesoscale molecular architecture of the human striatum across cell types and lifespan. *bioRxiv : the preprint server for biology*.

Ruf WP, et al. (2026) Multi-modal dissection of cell-type specific TDP-43 pathology in the motor cortex. *Nature communications*, 17(1).

Lebon S, et al. (2026) An inflammasome-driven differentiation program in intestinal stem cells protects against Salmonella infection. *Nature immunology*, 27(7), 1404.

Aboelnour EL, et al. (2026) A comparative transcriptomic analysis of mouse demyelination models and multiple sclerosis lesions. *Nature communications*, 17(1).

Shyer JA, et al. (2026) TGFb signaling instructs a conserved fibrosis-associated cell state marked by LRRC15. *Proceedings of the National Academy of Sciences of the United States of America*, 123(21), e2536550123.

Bonsall S, et al. (2026) Single-nucleus multiomic atlas of ALS primary motor cortex nominates neuroprotective WDR49-expressing astrocytes. *Research square*.

Ferro A, et al. (2026) Fn14 is an activity-dependent, Bmal1-regulated cytokine receptor that induces rod-like microglia and restricts neuronal activity in vivo. *Cell reports*, 45(2), 116926.

Aalling NN, et al. (2026) Sustained diabetes remission induced by FGF1 involves a shift in transcriptionally distinct AgRP neuron subpopulations. *Molecular metabolism*, 103, 102300.

Pathoulas CL, et al. (2026) Endothelial PTBP1 Deletion in Transplanted Cardiac Tissue Limits Cardiac Allograft Vasculopathy. *bioRxiv : the preprint server for biology*.

Shen Y, et al. (2026) comBO: A combined human bone and lympho-myeloid bone marrow organoid for preclinical modeling of hematopoietic disorders. *Cell stem cell*, 33(3), 421.

Kurjan A, et al. (2026) Cellular and molecular landscapes of human tendons across the lifespan revealed by spatial and single-cell transcriptomics. *Cell reports*, 45(4), 117085.

Hinterleitner C, et al. (2026) Senescence-directed nanotherapy ameliorates fibrosis and overcomes immune exclusion in cancer. *bioRxiv : the preprint server for biology*.

Rizo JA, et al. (2026) A transient epithelial plasticity state defines the developmental window for uterine gland specification. *bioRxiv : the preprint server for biology*.