

Resource Summary Report

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[imcRtools](#)

RRID:SCR_027613

Type: Tool

Proper Citation

imcRtools (RRID:SCR_027613)

Resource Information

URL: <https://www.bioconductor.org/packages/release/bioc/html/imcRtools.html>

Proper Citation: imcRtools (RRID:SCR_027613)

Description: Software R package that supports the handling and processing of IMC multiplex imaging data. Used for handling and analysing imaging mass cytometry data.

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

Keywords: imaging, mass cytometry, imaging mass cytometry data, mass cytometry data,

Availability: Free, Available for download, Freely available

Resource Name: imcRtools

Resource ID: SCR_027613

Alternate URLs: <https://github.com/BodenmillerGroup/imcRtools>

License: GNU GPL v3

Record Creation Time: 20251101T055533+0000

Record Last Update: 20260815T183307+0000

Ratings and Alerts

No rating or validation information has been found for imcRtools.

No alerts have been found for imcRtools.

Data and Source Information

Usage and Citation Metrics

We found 34 mentions in open access literature.

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

Kong X, et al. (2026) Stem-like memory-T maintenance and differentiation into tissue-resident T cells sustain chronic graft-versus-host disease in mice. *Nature communications*, 17(1).

Yeo YY, et al. (2026) Epstein-Barr virus orchestrates spatial reorganization and immunomodulation in the classic Hodgkin lymphoma tumor microenvironment. *Cell reports. Medicine*, 7(4), 102722.

Zhao Q, et al. (2026) Sintilimab plus concurrent chemoradiotherapy for treatment of locally advanced small cell lung cancer (SINCE-01): a phase II clinical trial. *Signal transduction and targeted therapy*, 11(1).

Lin Y, et al. (2026) TiRank prioritizes phenotypic niches in tumor microenvironment for clinical biomarker discovery. *Genome medicine*, 18(1), 23.

Marceaux C, et al. (2026) TNF- α -mediated myeloid-instructed CD14⁺CD4⁺ T cells are associated with poor survival in lung adenocarcinoma. *Cell reports. Medicine*, 7(2), 102593.

Sussman JH, et al. (2026) A longitudinal single-cell and spatial multiomic atlas of pediatric high-grade glioma. *Cell reports. Medicine*, 7(5), 102766.

Zhu J, et al. (2026) Spatial immune atlas of breast cancer brain metastasis reveals CD163⁺ macrophage reprogramming associated with immune escape. *Journal for immunotherapy of cancer*, 14(6).

Gu S, et al. (2026) Cryoablation plus sintilimab and lenvatinib in advanced or metastatic intrahepatic cholangiocarcinoma: a phase 2 trial. *Nature cancer*, 7(1), 60.

Schiller C, et al. (2026) Comparison and optimization of cellular neighbor preference methods for quantitative tissue analysis. *Nature communications*, 17(1).

Salm L, et al. (2026) Peritoneal macrophages regulate distal wound healing via endocrine release of plasma fibronectin. *The Journal of clinical investigation*, 136(9).

Näsiaho J, et al. (2026) Spatial single-cell analysis reveals tumor microenvironment signatures predictive of oral cavity cancer outcome. *Cell reports. Medicine*, 7(2), 102615.

Ning B, et al. (2026) Upregulation of an Epithelial miRNA Is Associated with Immune Evasion in Progressive Bronchial Premalignant Lesions. *Cancer immunology research*, 14(4), 689.

Wu X, et al. (2026) Locus-Specific Human Endogenous Retrovirus ERVK18 Expression Indicates an Inflamed Microenvironment and Favorable Immunotherapy Outcome in Small Cell Lung Cancer. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 32(11), 2214.

Huck A, et al. (2025) Imaging Mass Cytometry-Based Immune Profiling of Human Peyer's Patches in Patients with Crohn's Disease. *European journal of immunology*, 55(10), e70071.

Ly CP, et al. (2025) Multimodal spatial proteomic profiling in acute myeloid leukemia. *NPJ precision oncology*, 9(1), 148.

Caramello A, et al. (2025) Intracellular accumulation of amyloid- β is a marker of selective neuronal vulnerability in Alzheimer's disease. *Nature communications*, 16(1), 5189.

Staufer T, et al. (2025) Biodistribution of nanoplastics in mice: advancing analytical techniques using metal-doped plastics. *Communications biology*, 8(1), 1247.

Ajaib S, et al. (2025) Spatial profiling of longitudinal glioblastoma reveals consistent changes in cellular architecture, post-treatment. *Neuro-oncology*, 27(12), 3145.

Forand A, et al. (2025) Long-Term Dystrophin Replacement Therapy in Duchenne Muscular Dystrophy Causes Cardiac Inflammation. *JACC. Basic to translational science*, 10(6), 759.

Khlebus EY, et al. (2025) Multiplexed Imaging Mass Cytometry Reveals Tumor-immune Microenvironment-dependent Hormone Receptor Expression in Adult-Type Ovarian Granulosa Cell Tumors. *Cancer research communications*, 5(10), 1894.