

Resource Summary Report

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MCMICRO

RRID:SCR_021048

Type: Tool

Proper Citation

MCMICRO (RRID:SCR_021048)

Resource Information

URL: <https://mcmicro.org/>

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Description: Open source software tool as multiple choice microscopy pipeline for multiplexed whole slide imaging and tissue microarrays. Scalable, modular image processing pipeline for multiplexed tissue imaging. Used for performing sequential steps needed to transform large, multi channel whole slide images into single cell data.

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

Defining Citation: [DOI:10.1101/2021.03.15.435473](https://doi.org/10.1101/2021.03.15.435473)

Funding: NCI U54 CA225088;
Harvard Medical School ;
Ludwig Cancer Research Foundation ;
University of Zurich BioEntrepreneur Fellowship ;
Swiss National Science Foundation Early Postdoc Mobility fellowship

Availability: Free, Available for download, Freely available

Resource Name: MCMICRO

Resource ID: SCR_021048

Alternate URLs: <https://github.com/labsyspharm/mcmicro>

License: MIT License

Record Creation Time: 20220129T080353+0000

Record Last Update: 20260805T044443+0000

Ratings and Alerts

No rating or validation information has been found for MCMICRO.

No alerts have been found for MCMICRO.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 11 mentions in open access literature.

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

Vallius T, et al. (2025) Spatial determinants of tumor cell dedifferentiation and plasticity in primary cutaneous melanoma. *bioRxiv : the preprint server for biology*.

Shi Y, et al. (2025) Mechanisms of tumor persistence in metastatic melanoma following successful immunotherapy. *bioRxiv : the preprint server for biology*.

Mattiuz R, et al. (2024) Dendritic cells type 1 control the formation, maintenance, and function of tertiary lymphoid structures in cancer. *bioRxiv : the preprint server for biology*.

Landeros C, et al. (2024) Deep learning pipeline for automated cell profiling from cyclic imaging. *Scientific reports*, 14(1), 23600.

Schade AE, et al. (2024) AKT and EZH2 inhibitors kill TNBCs by hijacking mechanisms of involution. *Nature*, 635(8039), 755.

Hsu J, et al. (2024) Protocol for iterative indirect immunofluorescence imaging in cultured cells, tissue sections, and metaphase chromosome spreads. *STAR protocols*, 5(3), 103190.

Kader T, et al. (2024) Multimodal Spatial Profiling Reveals Immune Suppression and Microenvironment Remodeling in Fallopian Tube Precursors to High-Grade Serous Ovarian Carcinoma. *Cancer discovery*.

Loi P, et al. (2024) Epigenetic and Oncogenic Inhibitors Cooperatively Drive Differentiation and Kill KRAS-Mutant Colorectal Cancers. *Cancer discovery*, 14(12), 2430.

Ni J, et al. (2022) p16INK4A-deficiency predicts response to combined HER2 and CDK4/6 inhibition in HER2+ breast cancer brain metastases. *Nature communications*, 13(1), 1473.

Schapiro D, et al. (2022) MCMICRO: a scalable, modular image-processing pipeline for multiplexed tissue imaging. *Nature methods*, 19(3), 311.

Biermann J, et al. (2022) Dissecting the treatment-naïve ecosystem of human melanoma brain metastasis. *Cell*, 185(14), 2591.