

Resource Summary Report

Generated by [RRID](#) on Aug 14, 2026

UnMICST

RRID:SCR_021050

Type: Tool

Proper Citation

UnMICST (RRID:SCR_021050)

Resource Information

URL: <https://github.com/HMS-IDAC/UnMicst>

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Description: Software tool as set of deep learning nuclei instance and semantic segmentation models that have been trained on 6 human tissue types: tonsil, small intestine, ovary, and cancers of brain, colon, prostate, and lung stained with Hoechst 33342 and combination of lamin B2 and nucleoporin98. Includes manually curated annotations as well as novel concept of introducing intentionally defocused and saturated images for robustness.

Synonyms: , Universal Models for Identifying Cells and Segmenting Tissue, UNet Model for Identifying Cells and Segmenting Tissue, UnMicst

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

Keywords: segmentation, identifying cells, segmenting tissue, universal models, tissue image, cell segmentation

Availability: Free, Available for download, Freely available

Resource Name: UnMICST

Resource ID: SCR_021050

License: MIT

Record Creation Time: 20220129T080353+0000

Record Last Update: 20260814T043024+0000

Ratings and Alerts

No rating or validation information has been found for UnMICST.

No alerts have been found for UnMICST.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 3 mentions in open access literature.

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

Eling N, et al. (2025) Multi-modal image analysis for large-scale cancer tissue studies within IMMUcan. Cell reports methods, 5(9), 101170.

Wu HJ, et al. (2022) Spatial intra-tumor heterogeneity is associated with survival of lung adenocarcinoma patients. Cell genomics, 2(8).

Inde Z, et al. (2021) Age-dependent regulation of SARS-CoV-2 cell entry genes and cell death programs correlates with COVID-19 severity. Science advances, 7(34).