Miltenyi Biotec

# MACSima® Platform

## Explore the full potential of spatial multiomics



# The MACSima® Platform

## Easily understand the complex interplay of cells in tissues

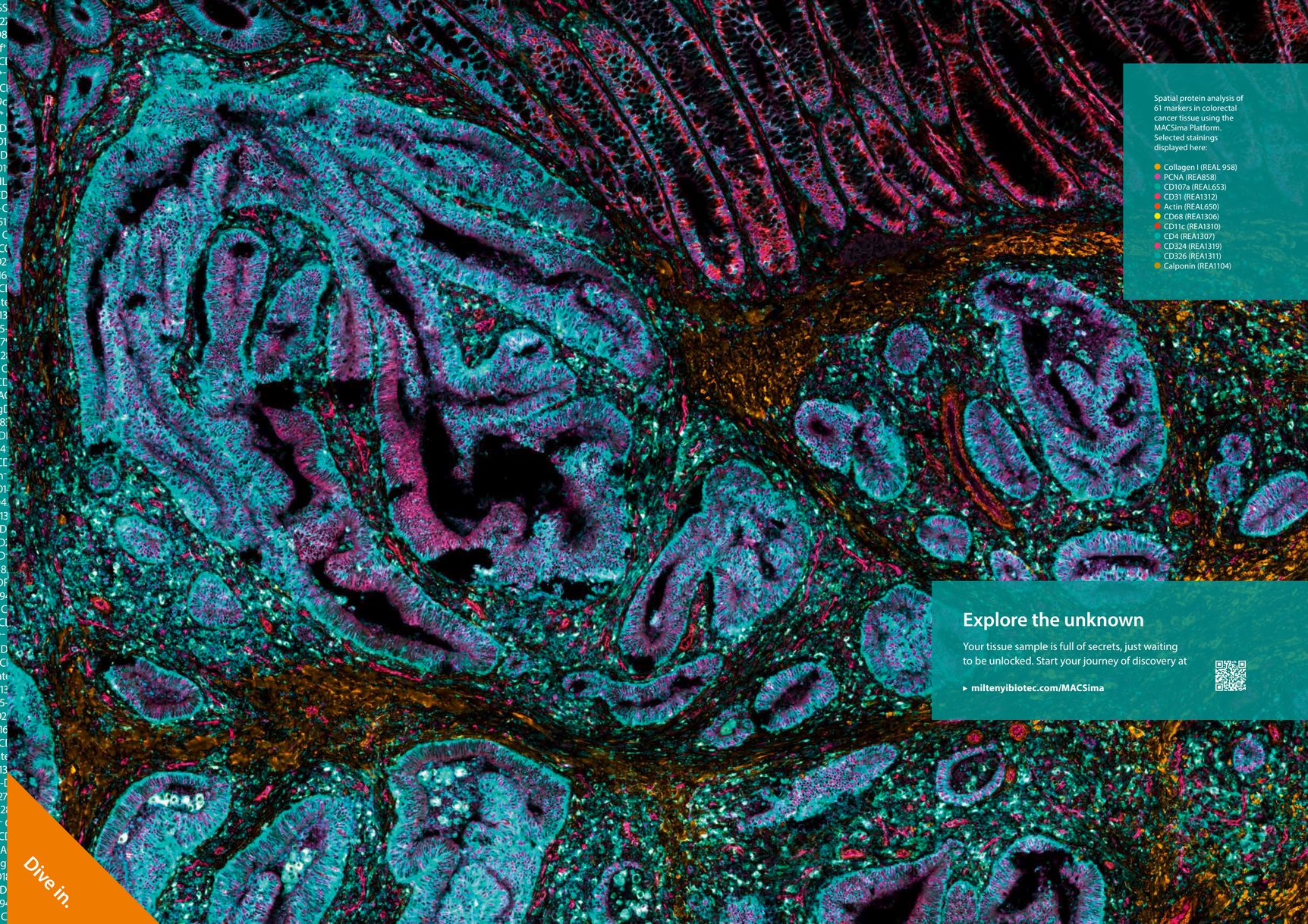
In our body's tissues, cells interact closely, affecting each other's functions and states. For example, in the tumor microenvironment, cancer cells can stop immune cells from working properly.

Those cellular complexities cannot be fully understood by analyzing individual cells or cell suspensions. We need to study them in their spatial context in their natural settings – the essence of spatial biology.

Enter the world of spatial biology with the high-plex proteomic approach of the MACSima Platform. Benefit from unparalleled flexibility: Analyze hundreds of protein markers across every cell in your tissue sample or focus on a more specific panel of around 20 markers for targeted or preliminary studies. Don't stop at proteins. Go deeper with spatial RNA detection, seamlessly integrated into the MACSima Platform for a unified multiomics workflow and analysis on the same tissue section.

Returning to the example of the tumor microenvironment, this can help us uncover why certain cells fail to do their job or why specific drugs aren't effective.

**Content without context is just noise.**



Spatial protein analysis of 61 markers in colorectal cancer tissue using the MACSima Platform. Selected stainings displayed here:

- Collagen I (REAL 958)
- PCNA (REA858)
- CD107a (REAL653)
- CD31 (REA1312)
- Actin (REAL650)
- CD68 (REA1306)
- CD11c (REA1310)
- CD4 (REA1307)
- CD324 (REA1319)
- CD326 (REA1311)
- Calponin (REA1104)

Dive in.

## Explore the unknown

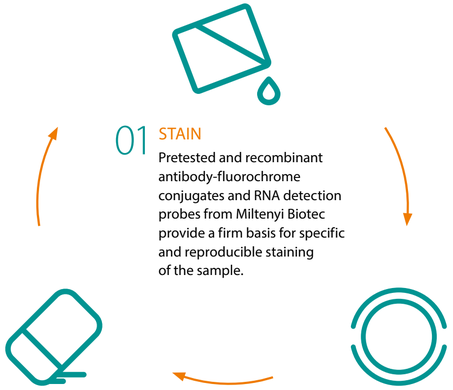
Your tissue sample is full of secrets, just waiting to be unlocked. Start your journey of discovery at

▸ **miltenyibiotec.com/MACSima**

# MICS technology – the basic principle

The MACSima Platform utilizes MICS (MACSima Imaging Cyclic Staining) technology. This approach captures microscopy data of hundreds of markers without compromising the sample for further downstream processing. Initially, the sample is stained with multiple primary fluorochrome-conjugated antibodies or RNA detection probes. In the subsequent step, an image is captured using the widefield microscope, and to conclude the cycle, the fluorescence signal is erased.

This cycle is automatically repeated as many times as necessary, enabling the user to label an unlimited number of protein markers and detect a comprehensive range of RNAs on the same sample. To investigate protein expression in tissue, utilize our pretested antibody portfolio or enjoy the flexibility to employ your own antibodies. For RNA detection, choose between predefined or custom RNA panels to investigate the targets of your choice.



01 STAIN

Pretested and recombinant antibody-fluorochrome conjugates and RNA detection probes from Miltenyi Biotec provide a firm basis for specific and reproducible staining of the sample.

02 IMAGE

The MACSima System automatically acquires and processes highly conclusive epifluorescence images of the desired sample areas.

03 ERASE

To complete the cycle, the fluorescence signal is erased, and the process restarts automatically.

# All you need for your spatial biology journey

The MACSima Platform streamlines your spatial biology research from A to Z, reducing the experimental workload and generating impactful data.
As you step into the realm of spatial biology using the MACSima Platform, you receive more than just an instrument – you gain access to a comprehensive spatial biology solution, encompassing various sample carriers, an extensive antibody portfolio, supportive reagents, and an intuitive analysis software. And that's not all: We provide support throughout the entire workflow, from panel design to data analysis, addressing both technical and biological aspects. As we use the MACSima Platform in our own research, rest assured we understand scientists' needs.



## MACSima System

At the core of the platform is the MACSima System, an instrument that executes the iterative staining cycle and data acquisition in a fully automated manner.



## Protein and RNA detection panels for spatial multiomics

Save time using pretested and ready-to-use reagents for your multiomic experiments from our extensive portfolio.

**MACSima Platform**

## MACSwell™ Sample Carriers

Specially designed sample carriers from Miltenyi Biotec ensure a failure-free, automated MICS process and offer the flexibility to use various sample types.



## MACS® iQ View Analysis Software

Specifically developed to analyze the large and valuable data stacks obtained by the MACSima System, this software is the perfect tool to dissect the multidimensional datasets and to extract the underlying information in an easy and comprehensive manner.



# Ready, set, explore!
# Your shortcut to spatial data.




## 1 PANEL DESIGN

Accelerated and simplified pre-experimental work with Miltenyi Biotec's portfolio of pretested recombinant antibodies and plug-and-play antibody and RNA detection panels.

## 2 AUTOMATED MICS EXPERIMENT

Efficiency through automation of the MACSima System, saving time for tackling other challenges in your project.

## 3 SPATIAL DATA ANALYSIS

Rapid generation of conclusive and publication-ready results with MACS iQ View – Spatial Biology, an intuitive software that makes complex spatial data analysis accessible to users of all backgrounds.

# MACSima System

## Fully automated sample handling and data acquisition

Excellent optics, a state-of-the-art sCMOS camera, accurate liquid handling, and high computer capacity are the hallmarks of the MACSima System.

Experience hands-free MICS experiments with our system components that operate in perfect harmony.

### Fully automated staining, imaging, and washing

This system combines automated liquid handling, a three-objective microscope, and an integrated bleaching unit, enabling hands-off experiment runs. It supports Miltenyi Biotec's and third-party pretested liquid antibodies, enabling flexible research applications. Antibodies or fluorochromes can be removed enzymatically or by automated bleaching, adaptable to your needs.



### Load multiple samples with ease

The MACSima Instrument features an ultra-precise stage supporting a wide range of sample types with high flexibility. It images tissue on standard slides, including fresh-frozen and FFPE samples. The stage accommodates up to four slides or a 24-well plate for adherent cell cultures, adapting seamlessly to diverse research workflows.



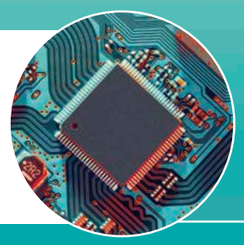
### Advanced optics and stunning image quality

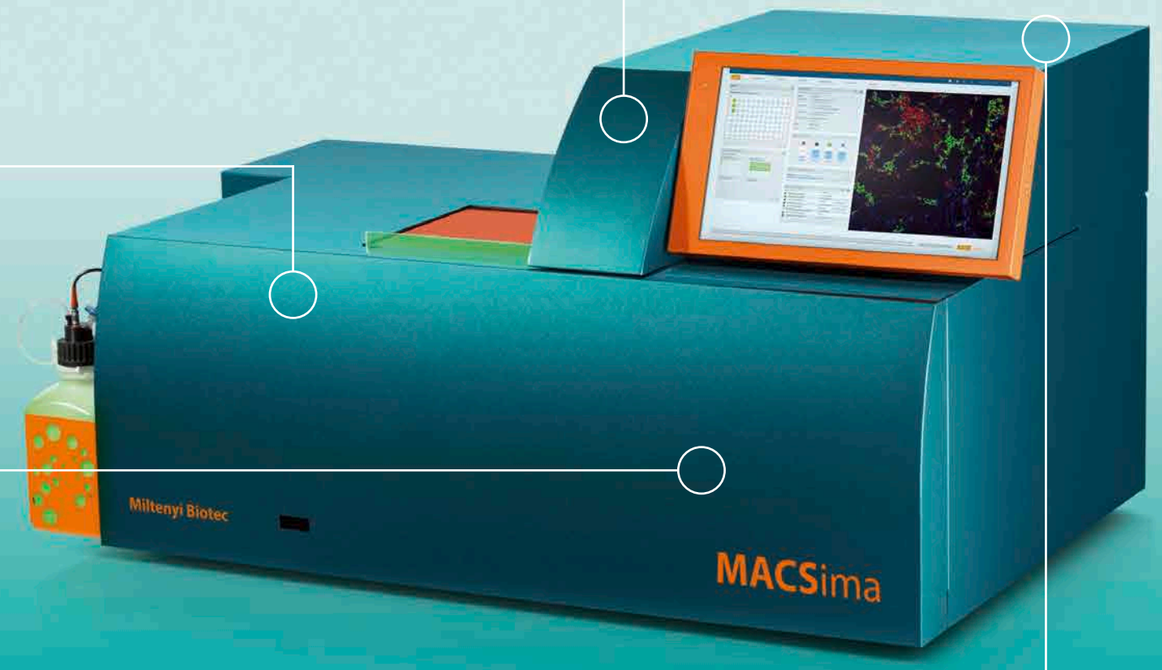
Equipped with two 20× objectives, the system supports both high-resolution imaging and standard slide analysis. The high-NA objective provides subcellular detail across sample types for precise visualization. An integrated sCMOS camera delivers high-quality, detail-rich images, supporting confident, high-impact research outcomes.



### High-end technology

Powered by two high-performance computers, the system ensures seamless operation, precise cycle management, and real-time image analysis within the preprocessing pipeline.



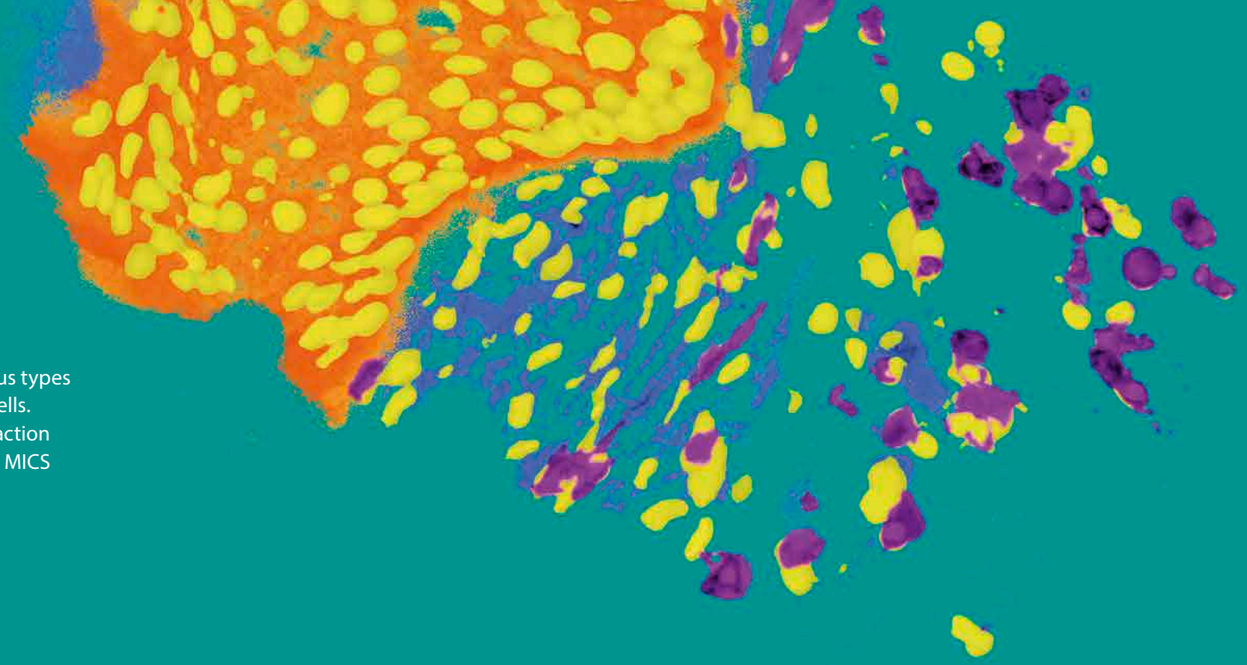


# MACSwell Sample Carriers

## Analyze any kind of fixed sample

To answer complex scientific questions, you shouldn't be held back by technical constraints. That's why we developed MACSwell Sample Carriers for the MACSima System, providing you with total flexibility in analyzing fixed samples.

These carriers are designed to support various types of samples, including tissues and adherent cells. Each carrier features a precisely designed reaction cavity, ensuring confidence and trouble-free MICS experiments.



### TISSUE



### MACSwell Imaging Frames

MACSwell Imaging Frames can be attached to any standard microscope slide and provide the reaction cavity needed for a MICS experiment. These frames come in different sizes, ensuring a perfect fit for your tissue sample. They are fully compatible with our MACSwell HighRes Slides, allowing protein and RNA detection on the same sample.

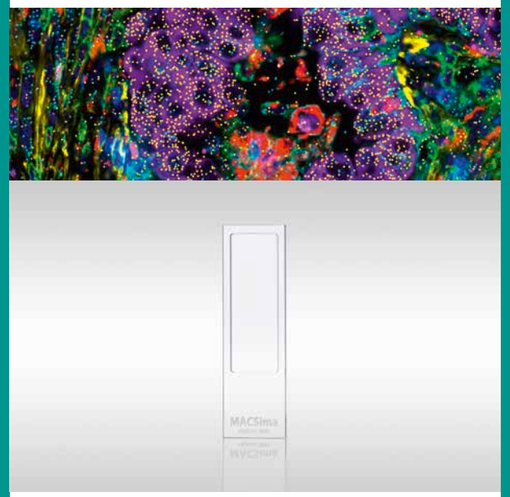
### ADHERENT CELLS



### MACSwell 24 Imaging Plates

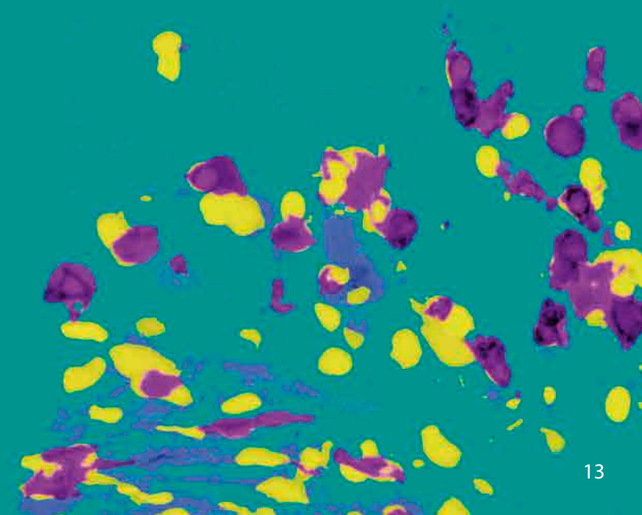
MACSwell 24 Imaging Plates come with 24 rectangular wells and a clear, 170 µm thick glass bottom. Just pipette your cell suspension onto the plate, culture it as usual, and then follow your standard protocol to fix the sample directly on the plate.

### SPATIAL MULTIOMICS



### MACSwell HighRes Slides

To achieve even higher resolution, use our MACSwell HighRes Slides, featuring 170 µm thick glass. They allow for exceptional detail capture and execution of spatial multiomics experiments with detection of proteins and RNA on the same sample.



# Pretested antibodies for MICS

## Specific staining – conclusive results

To achieve reliable and error-free analyses, rely on the world's largest portfolio of fluorochrome-conjugated primary antibodies for spatial biology:

- Pretested for MICS technology on the MACSima Platform, to be compatible with FFPE or frozen (PFA or acetone-fixed) samples of human or mouse origin
- Recombinantly engineered for high specificity
- Lot-to-lot consistent, ensuring reproducible results over time

### The two mechanisms for signal erasure

After staining with fluorochrome-conjugated antibodies and image acquisition of the stained sample, the fluorescent signal can be erased by photobleaching or fluorochrome release (fig. 1).

### Erase by photobleaching

The fluorescent signal of samples that were stained with fluorochrome-conjugated antibodies, such as our recombinant REAfinity® Antibodies or third-party antibodies, coupled to non-photostable FITC, PE, or APC fluorochromes, can be erased via photobleaching.

### Erase by fluorochrome release

Staining of samples with REAdye_lease® and REAlease® Fluorochrome-Conjugated Antibody complexes allows for fast and gentle signal erasure via a controlled release of fluorochromes.

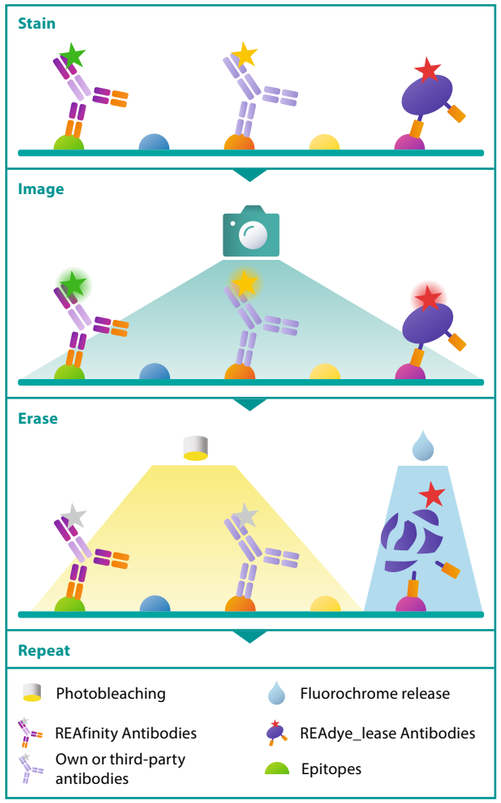



**Figure 1:** MICS cycles are performed automatically by the MACSima System. Fluorescence signal erasure occurs by photobleaching or fluorochrome release.



# Convenient antibody panels – pretested for MICS

Explore 600+ antibodies

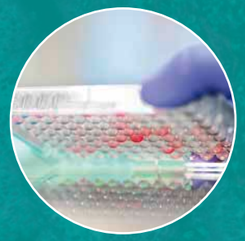
▸ miltenyibiotec.com/MICS-antibodies

## Predefined antibody panels



**REAplex**

- Immuno-Oncology Core: key markers to visualize the tumor microenvironment and major tumor-infiltrating leukocyte populations in human FFPE samples.
- Immune Phenotyping: essential markers to show tissue architecture and immune cells in mouse frozen sections.
- Neuro Core: key markers for neural and glial architecture in mouse frozen brain sections.
- End-to-end workflow with predefined panels, application protocol, and a template with guidance for dataset analysis.
- Flexible, adaptable, and expandable.



**REAscreen™ Panels**

- Skip the panel design and pipetting by using comprehensive, predefined panels.
- Convenient, standardized reagent format with dried antibodies.
- Freely expandable with liquid antibodies.

## Custom antibody panels



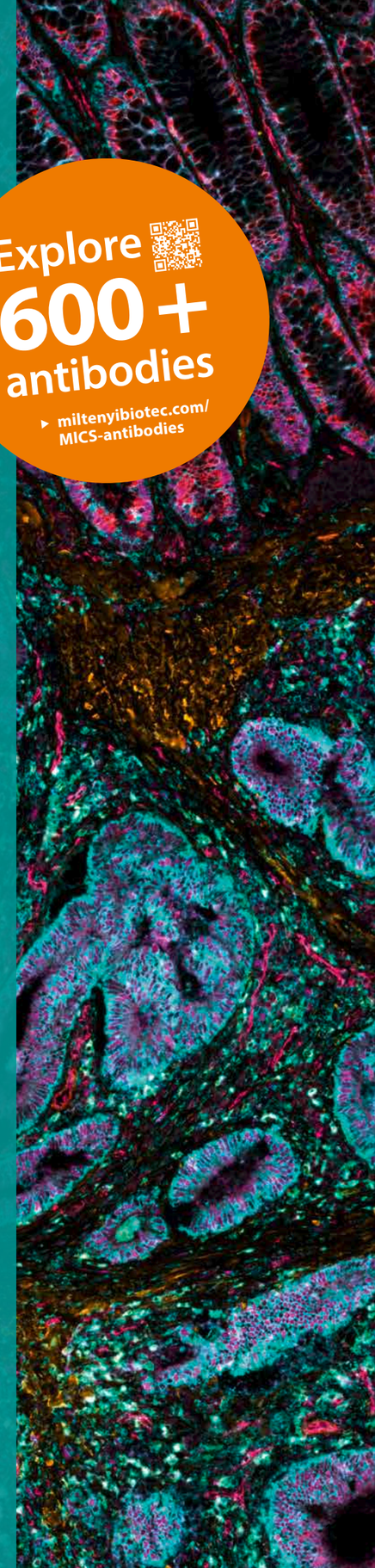
**Individual antibody conjugates**

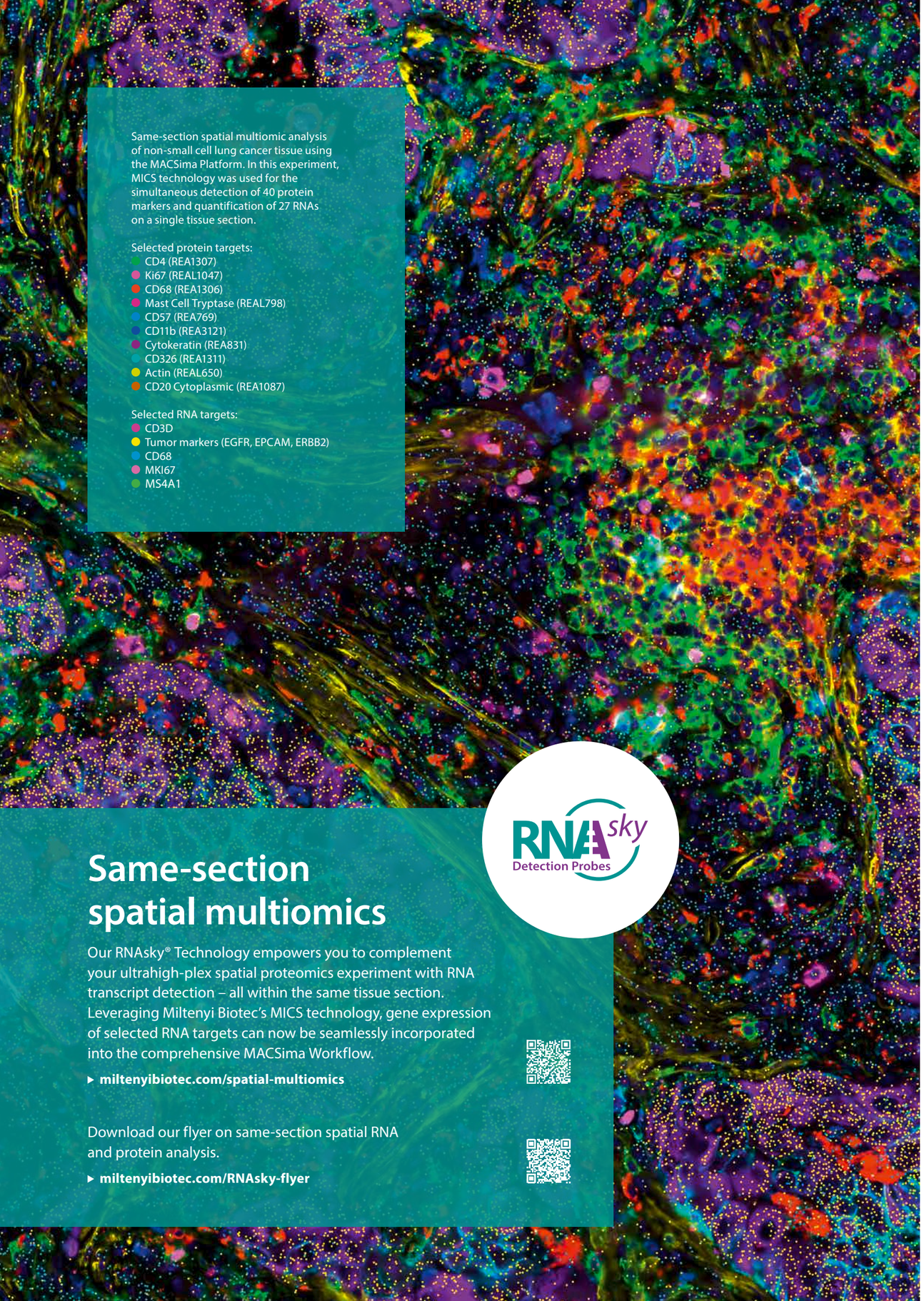
- Huge catalog of fluorochrome-conjugated antibodies.
- Pretested for MICS on FFPE and frozen tissue sections.
- Build your panel with full flexibility.
- Integrate any 3rd party antibody with your panel.



**REAscreen Design custom panels**

- Our highly standardized REAscreen Format – tailored to your panel.
- Define your time-saving and scalable panel with Miltenyi Biotec antibodies.
- Ideal for studies with large sample numbers.





Same-section spatial multiomic analysis of non-small cell lung cancer tissue using the MACSima Platform. In this experiment, MICS technology was used for the simultaneous detection of 40 protein markers and quantification of 27 RNAs on a single tissue section.

Selected protein targets:
- CD4 (REA1307)
- Ki67 (REAL1047)
- CD68 (REA1306)
- Mast Cell Tryptase (REAL798)
- CD57 (REA769)
- CD11b (REA3121)
- Cytokeratin (REA831)
- CD326 (REA1311)
- Actin (REAL650)
- CD20 Cytoplasmic (REA1087)

Selected RNA targets:
- CD3D
- Tumor markers (EGFR, EPCAM, ERBB2)
- CD68
- MKI67
- MS4A1

RNAsky Detection Probes

## Same-section spatial multiomics

Our RNAsky® Technology empowers you to complement your ultrahigh-plex spatial proteomics experiment with RNA transcript detection – all within the same tissue section. Leveraging Miltenyi Biotec's MICS technology, gene expression of selected RNA targets can now be seamlessly incorporated into the comprehensive MACSima Workflow.

▸ **miltenyibiotec.com/spatial-multiomics**

Download our flyer on same-section spatial RNA and protein analysis.

▸ **miltenyibiotec.com/RNAsky-flyer**

# Unlock spatial gene expression insights with RNAsky® Technology

## Spatial multiomic analysis at its finest

RNAsky Technology enhances the MACSima Imaging Platform, enabling *in situ* RNA detection alongside protein analysis in the same tissue section. This multiomic approach preserves spatial context while providing deeper biological insights.

**Why choose RNAsky Technology?**
- Epitope preservation – protease-free protocol ensures protein integrity.
- High specificity – proprietary probe design algorithm minimizes off-target binding.
- Robust performance and sensitivity – multiprobe approach enhances detection.

## RNAsky Design: custom RNA panels for your research

Custom RNAsky Panels allow researchers to target virtually any gene with high specificity. Available in two formats, 12-plex and 24-plex, these panels provide flexibility for different research needs. The standard design service covers well-annotated human, mouse, and rat transcriptomes, while the advanced service extends to non-standard organisms, viral and bacterial targets, and novel sequences.

## How does RNAsky Design work?

**01 PANEL REQUEST**
- Fill out our online form to connect with an expert.
- Discuss your specific experimental needs.
- Choose from our 12-plex and 24-plex panel formats.

**02 DESIGN REVIEW**
- We review your panel request and refine it together.
- You'll receive a quote and confirm the order.

**03 PANEL DESIGN AND PRODUCTION**
- We design your custom probes using our proprietary probe design algorithm optimized to yield highly specific probes.
- After precise design, we produce your panel.

**04 DELIVERY**
- We deliver your custom RNA panel.
- It's ready to use, so you can start your experiments immediately!

**Figure 2:** Workflow for RNAsky Design – from request to delivery.

LEARN MORE

Get more information on our RNAsky Design panels.

▸ **miltenyibiotec.com/RNAsky-Design**

# MACS iQ View – Spatial Biology

## Sophisticated yet simple analysis software

The MACS iQ View – Spatial Biology Software Package is designed to manage and analyze the large-scale datasets generated by the MACSima Platform. It enables intuitive handling of hundreds of images, integrated preprocessing, flexible visualization of individual or combined markers, and reproducible data analysis.

LEARN MORE

Visit our website to learn more about MACS iQ View – Spatial Biology.

▸ **miltenyibiotec.com/MACS-iQ-View**



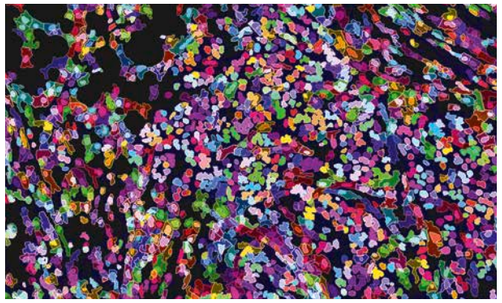

**Figure 3:** Graphical user interface of the MACS iQ View – Spatial Biology Software.



## Key software features

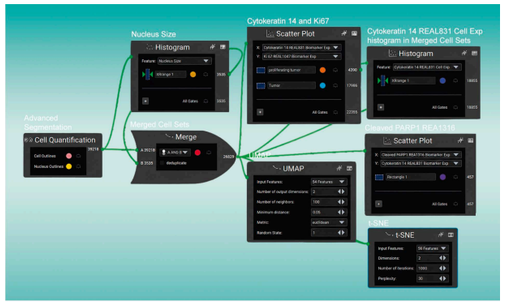
### Interactive and dynamic data display

The software's user interface is highly intuitive and easy to use. Images and videos can be easily exported to create composite images and highlight areas of interest for clear and compelling data presentation. In addition, raw data are accessible in multiple table formats with flexible export options, allowing you to customize data views and perform downstream statistical analyses.



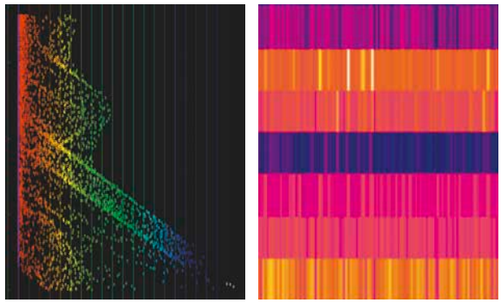
### Dynamic segmentation and cell phenotyping

Quickly segment images using predefined algorithms or trusted custom segmentation masks, and phenotype cells based on biomarker expression, localization, or cell morphology. Flexible analysis options support both established gating strategies and unbiased clustering approaches.



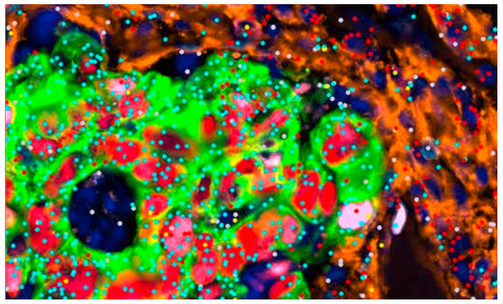

### Seamless analysis workflows

Analyze spatial biology data with comprehensive and flexible workflows. Organize analysis steps visually using an intuitive workflow editor, and easily apply saved workflows to additional datasets for efficient and reproducible analysis.



### Advanced analysis and visualization tools

Explore high-dimensional spatial biology data with powerful analysis and visualization tools. Investigate complex cellular phenotypes and spatial tissue organization using integrated dimensionality reduction methods, including t-SNE and UMAP, as well as distance mapping and heatmaps for intuitive data interpretation.



### Same-section multiomics analysis

Analyze RNA expression data generated with RNAsky Detection Probes alongside multiplex protein expression data from the same tissue section. Spatially resolved transcript counts enable distance and density analyses, adding a new dimension to spatial biology workflows.

# From spatial data to publication-ready results

## End-to-end spatial data analysis for meaningful biological insights

### Step 1:
### Tailored segmentation

A key challenge in spatial biology is the accurate identification of objects such as cells, nuclei, or superpixels for downstream analysis. MACS iQ View provides high flexibility to tailor segmentation to your images. Adjust watershed algorithm parameters to match tissue density and nuclear morphology, refine cell boundaries using cytoplasmic markers, or import masks from external sources.

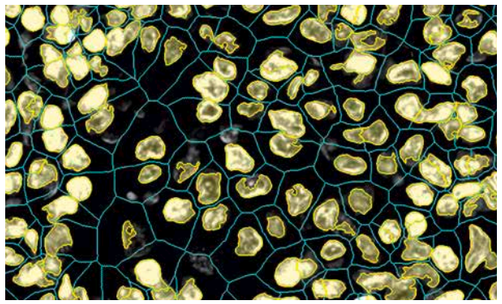


**Figure 4:** Watershed-based cell segmentation of colorectal carcinoma tissue.

### Step 2:
### Built-in normalization

Data is easier to interpret when properly normalized. Built-in normalization features help reduce technical effects that can influence marker intensity distributions. This makes expression patterns easier to compare across regions of interest, cell populations, and markers, helping you focus on biologically meaningful differences.

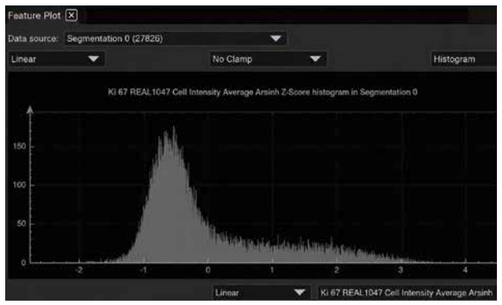



**Figure 5:** Normalized (Arsinh-transformed) KI-67 intensity distribution.

### Step 3:
### Dimensionality reduction

Reveal the global structure of your dataset using dimensionality reduction algorithms. UMAP leverages information from all protein markers to position cells with similar expression patterns closer together. Gating on UMAP plots provides a powerful way to explore major cell populations and tissue architecture within your region of interest.

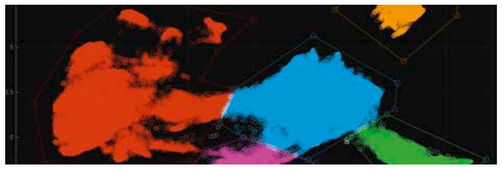


**Figure 6:** UMAP clustering of cells with similar protein expression profiles.

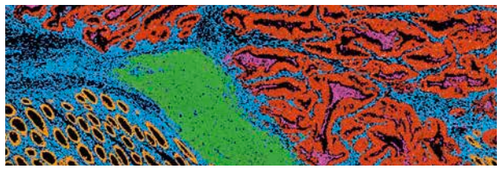


**Figure 7:** Spatial mapping of UMAP-defined cell populations within the tissue.

### Step 4:
### Gating and fine-tuning

Create histograms and scatter plots of marker expression and select cells of interest directly within the plots. Previously defined cell sets can be used to generate additional plots and build a hierarchical gating strategy for annotating cell types and phenotypes across images. Gate finetuning is simplified through side-by-side visualization with real-time updates of labels and colors, enabling immediate review of gated cells in tissue context.

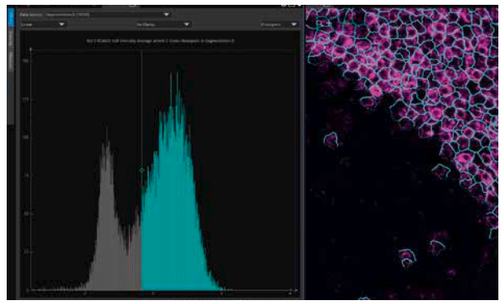


**Figure 8:** Histogram-based gating of biomarker expression and visualization of gated cells on the tissue image.

### Step 5:
### Cell clustering

MACS iQ View provides multiple clustering algorithms to identify biologically meaningful cell populations. Options include rapid grouping methods such as K-Means, deterministic connectivity-based classification, and spatial clustering approaches such as DBSCAN, each with tunable parameters and intuitive visualization. Use normalized expression data to cluster cells with similar phenotypes for automated cell typing, or apply spatial information to identify spatially organized cell clusters.

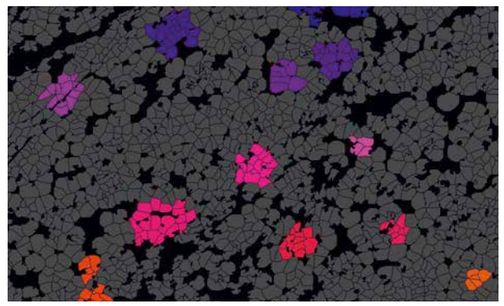


**Figure 9:** Identification of spatially organized cell clusters using DBSCAN and spatial location data.

### Step 6:
### Distance mapping and spatial analysis

After cell typing and labeling structures of interest, quantify distances and densities to unlock the full power of spatial biology. Create image annotations, distance maps, and density fields that can be visualized, quantified per cell, and analyzed to reveal novel insights.

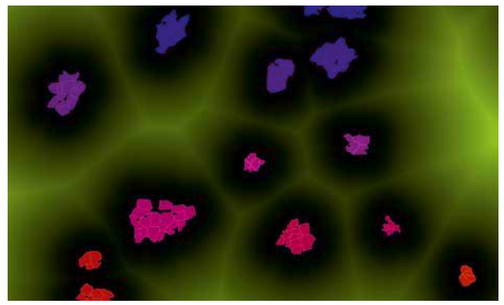


**Figure 10:** Distance field from colored cell populations, where increasing yellow intensity represents greater distance to the nearest cluster.

# One experiment, endless discoveries

## Deep phenotyping

By examining hundreds of protein markers in their spatial context, researchers can uncover intricate details about cell heterogeneity, microenvironment interactions, and disease-specific patterns, ultimately advancing our knowledge of complex biological systems.

## Biomarker research and discovery

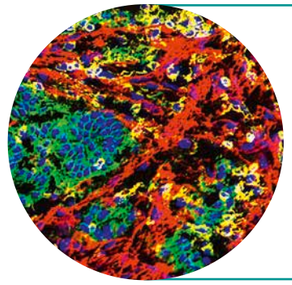
The correlation between various markers in your sample is vital for uncovering biomarker signatures. This understanding plays a pivotal role in developing patient stratification strategies and innovative therapies tailored to individual needs, revolutionizing the treatment of numerous diseases.

## Drug target discovery and validation

By conducting spatial analysis with a wide range of markers, you can identify potential drug development targets. Using the MACSima Platform, these candidates can be further assessed and validated in preclinical research studies, considering the comprehensive microenvironment. This approach can enhance the accuracy and depth of drug effectiveness analysis.

# Where every marker tells a story

Thoroughly analyzing a wide range of markers not only boosts your current research but also creates a valuable archive for addressing future questions, even those you haven't thought of yet. You can revisit datasets from your MICS experiments anytime to uncover new insights. Your spatial data holds unlimited potential for discoveries. Explore how other researchers used the MACSima Platform in their groundbreaking research in the examples below.

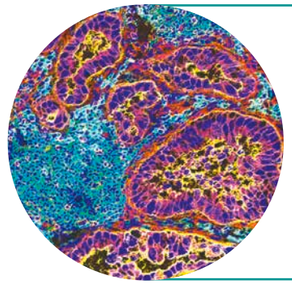


### Spatial single-cell atlas of the liver

MICS technology helped researchers to generate a cellular atlas of the entire human and murine liver.

Read the paper in Cell.

▸ **cell.com/cell/fulltext/S0092-8674(21)01481-1**

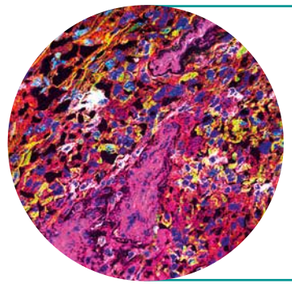


### Deciphering functional tumor-immune crosstalk

Multiplexed data from the MACSima System was combined with single-cell laser microdissection and sensitive mass spectrometry to spatially profile tumor cells in human cancer samples.

Read the publication in Molecular Cell.

▸ **cell.com/molecular-cell/fulltext/S1097-2765(24)01041-4**



### Deterministic neutrophil reprogramming in tumors

Data from the MACSima System were combined with RNA- and ATAC-sequencing to unravel distinct neutrophil states within tumors originating from different tissues.

Read the full story in Science.

▸ **science.org/doi/10.1126/science.adf6493**

**LEARN MORE**

Delve into cutting-edge spatial biology research with the MACSima Platform.

▸ **miltenyibiotec.com/MACSima-publications**

# All you need for spatial biology excellence

## MACSima Platform specifications

### Microscope

| | |
|---|---|
| Instrument type | Widefield epifluorescence microscope |
| Camera | Equipped with a latest-generation sCMOS camera with high resolution and thermoelectrically cooled sensor (15 megapixel, large 25 mm diagonal field of view) |
| Excitation | Six high-power excitation LEDs (filters: 386/23 nm, 420/10 nm, 470/40 nm, 531/46 nm, 628/32 nm, 725/40 nm) |
| Emission | Five emission filters (470/40 nm, 530/43 nm, 580/25 nm, 698/70 nm, 809/81 nm) |
| Autofocus | Dual approach of hardware- and image-based autofocus mechanisms |
| Objectives | • 2× objective to generate overview images; NA 0.1<br>• 20× long working distance objective (designed for 1 mm thick slides); NA 0.45<br>• 20× objective with high numerical aperture (designed for 170 µm thick cover glass); NA 0.75 |
| Bleaching unit | • Separate bleaching unit for optimized signal erasure<br>• Illuminated area: 3 mm × 3 mm<br>• Light intensity: 2 W |

### Liquid handling system

| | |
|---|---|
| Needle arm | Robotic needle arm allowing fully automated liquid transfer |
| Steel needle | Washable stainless steel needle with minimized spillover |
| Syringe pump | Syringe pump drive for accurate volumetric staining of samples |
| Fluid containers | 1.5 L fluid containers for automatic operation over several days without the need to exchange containers |

### Sample and reagent stage

| | |
|---|---|
| Automated stage | Stage with sub-micron positioning accuracy of 100 nm (automated image registration for different cycles) |
| Automated sample and reagent carrier positioning | Convenient loading and clamping of all supported sample carriers and reagents |

### Technical data

| | |
|---|---|
| Computer | Two integrated computers for experiment planning/execution and image analysis |
| Monitors | • Tiltable integrated touch display (Full HD) for PC1<br>• External 4K monitor for PC2 |
| Storage/ports | • 25 TB integrated storage to store data of several experiments<br>• 2× USB 3.0<br>• HDMI port |
| Network | 1× 10 GbE 1× RJ45 GbE/10GbE |
| Power requirement and consumption | 100–240 V, 50/60 Hz, max. 7/13A, max. 1,300 W |

### MACS iQ View Software

| | |
|---|---|
| Control software | • Comprehensive sample and reagent management system<br>• Easy planning and design of both simple and complex experiments<br>• User-friendly execution and monitoring of experiments |
| Analysis software (Spatial Biology Package) | • Easy display of hundreds of markers from high-dimensional datasets<br>• Fast and flexible segmentation<br>• Interactive gating<br>• Unbiased data analysis (k-means clustering, UMAP and t-SNE calculation)<br>• Multiple plotting options (histogram, scatter plot, strip and violin plots, heatmaps)<br>• Workflow editor<br>• Distance analyses |

### Size and weight

| | |
|---|---|
| Dimensions | • Instrument dimension: 1,220 mm × 780 mm × 650 mm (w × d × h); footprint: 1,210 mm × 750 mm (w × d)<br>• MACSima Table[1]: 1,250 mm × 765 mm × 813 mm (w × d × h) |
| Weight | • Instrument: 170 kg<br>• MACSima Table[1]: 120 kg |



## Product type

### Instrument

| |
|---|
| MACSima System |
| MACSima Table |
| MACSima 4K monitor |

### Software

**Licences for MACS iQ View – Spatial Biology[2]**

- Annual license
- Permanent license

### RNAsky Reagents

- RNAsky IO Explore Panel, human
- RNAsky Support Kit
- RNAsky Sample Preparation Kit
- RNAsky Design 12- and 24-Plex

### Antibodies and reagents

**MICS-pretested antibody conjugates[3]**

- REAfinity Recombinant Antibodies
- REAdye_lease Releasable Fluorochromes
- REAlease Releasable Antibodies

**Pre-defined Antibody Panels for MICS[3]**

- REAscreen Immuno-oncology Kit, human, FFPE, version 01
- REAscreen MAX Kit, human, FFPE, version 02
- REAscreen MAX Kit, human, PFA, version 02
- REAscreen MAX Kit, mouse, PFA, version 02
- REAplex Immuno-oncology Core, human, FFPE

**Support Reagents for MICS**

- MACSima Stain Support Kit, human
- MACSima Stain Support Kit, mouse

### Sample carriers[4]

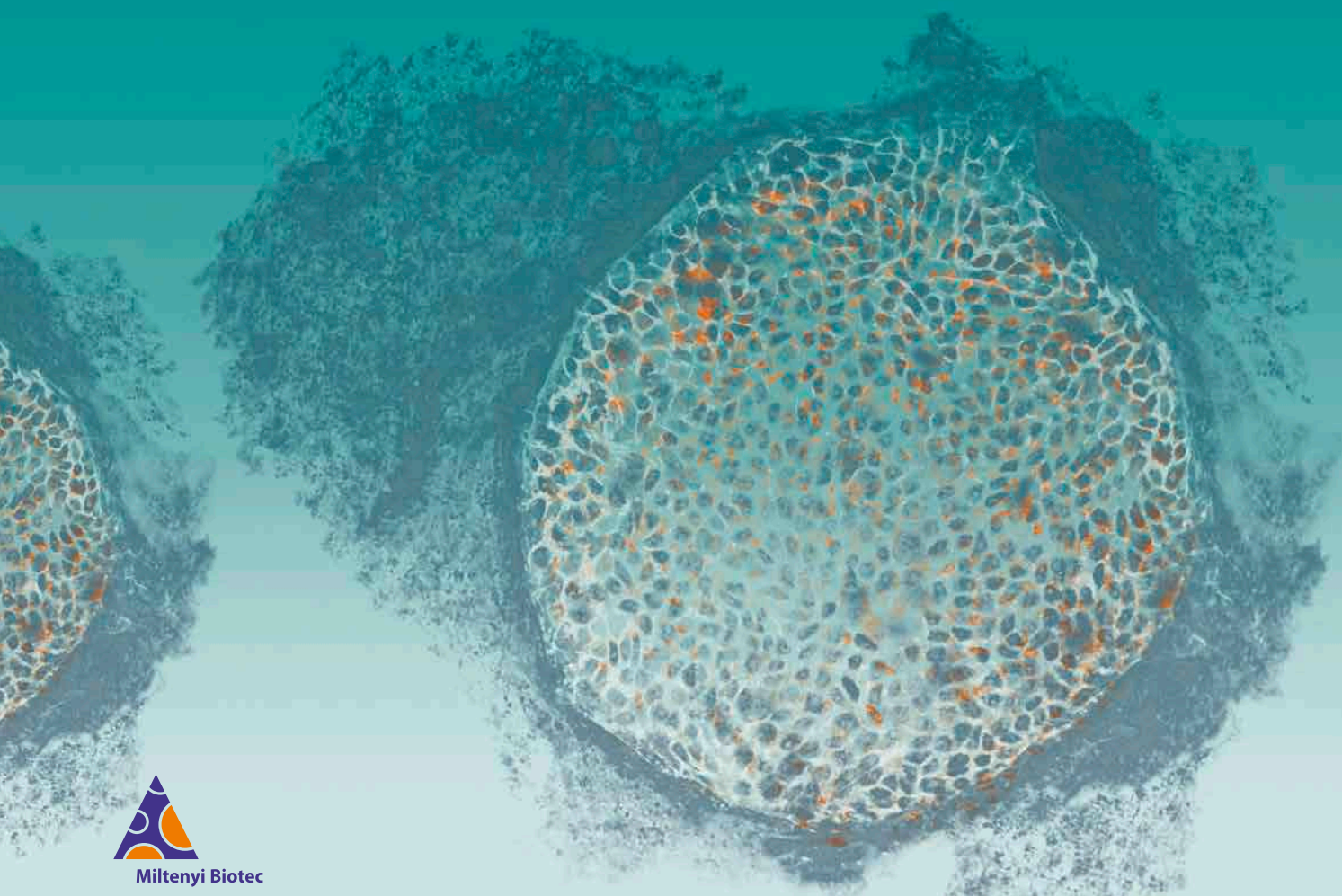
- MACSwell One Imaging Frames
- MACSwell One Small Imaging Frames
- MACSwell Two Imaging Frames
- MACSwell Four Imaging Frames
- MACSwell 24 Imaging Plates
- MACSwell HighRes Slides

### Buffers and accessories

| |
|---|
| MACSima Buffer Starting Kit |
| MACSima Running Buffer 6×1.5 L |
| MACSima System Buffer 6×1.5 L |
| MACSQuant®/MACSima Storage Solution 6×1.5 L |
| MACSwell Deepwell Plates |
| MACSwell Sealing Foils |

[1] The MACSima System is delivered with a trolley table specifically designed to support the system. It has anti-vibration properties and provides a closed storage compartment.
[2] For detailed information about the different license options, visit **miltenyibiotec.com/MACS-iQ-View**
[3] For details on the wide range of Miltenyi Biotec antibodies for MICS, visit **miltenyibiotec.com/MICS-antibodies**
[4] For more information about the latest sample carriers from Miltenyi Biotec, visit **miltenyibiotec.com/MICS-sample-carriers**

# ▸ miltenyibiotec.com/MACSima



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130-124-621.09