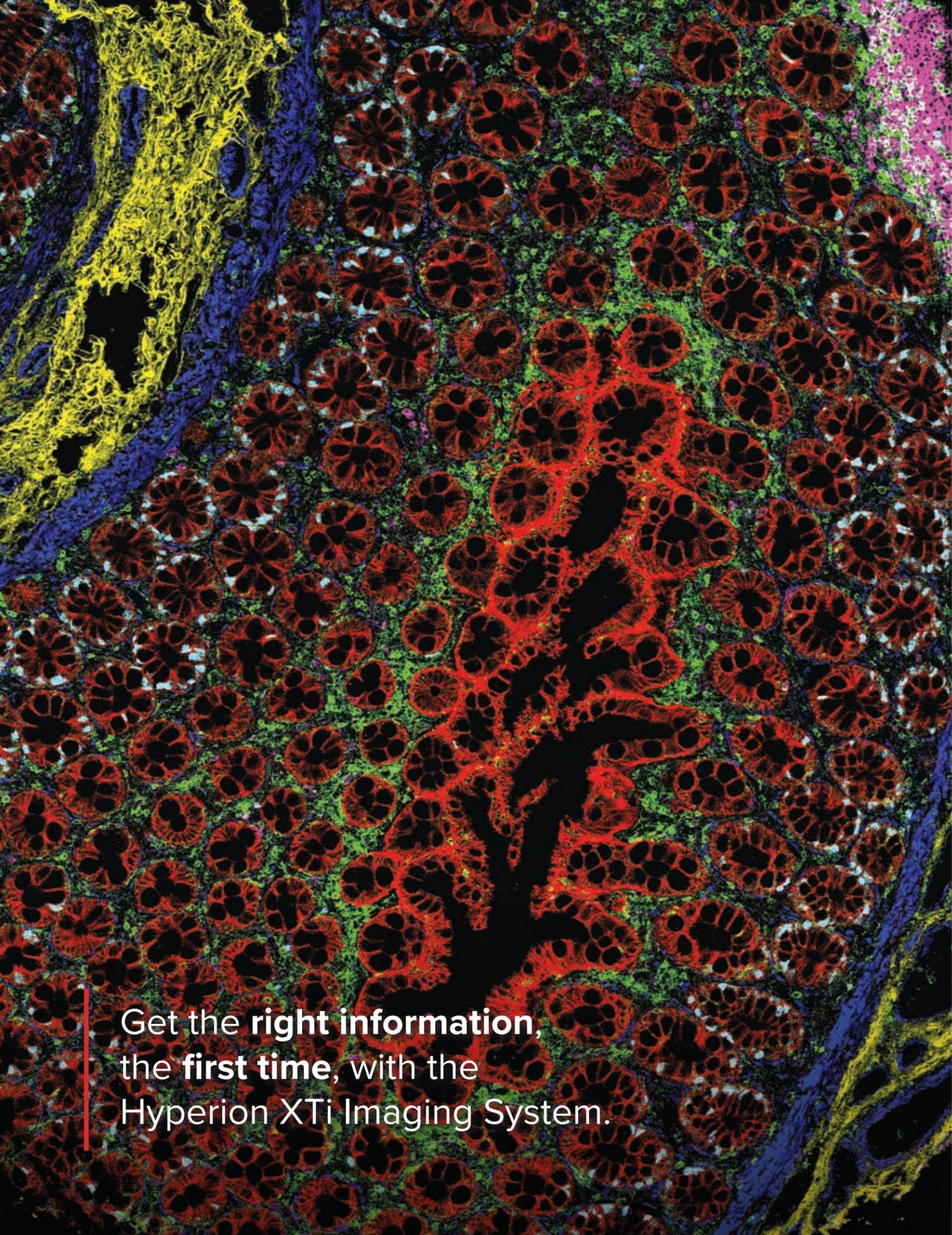


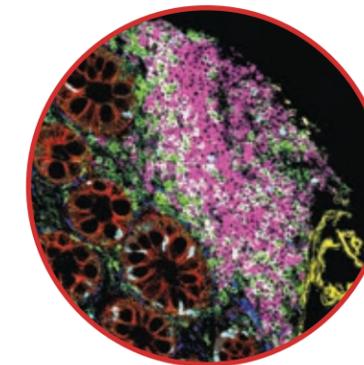
Hyperion™ XTi

IMAGING SYSTEM



Spatial context, applied.

Imaging Mass Cytometry



The study of biological systems at the single-cell level reveals complexity and underlying heterogeneity that impact cell differentiation, disease progression and immune response.

Imaging Mass Cytometry™ (IMC™) is the most reliable technology available for providing timely and accurate identification of cell types and pathways in order to translate clinical research data into actionable outcomes.

THE FASTEST AND MOST RELIABLE WORKFLOW FOR HIGH-PLEX IMAGING

IMC is the only technology with:

- No autofluorescence interference to image any tissue type
- 40-plus markers imaged simultaneously to get results faster
- Protein and RNA co-detection for deeper insights
- Integrated cell segmentation for faster interpretation
- Batch staining of all slides for high-volume studies
- Dual imaging and flow cytometry mode to maximize investment

DISCOVER THE PRECISION OF THE NEW HYPERION XT_i

Powered by proven Imaging Mass Cytometry, Hyperion XT_i™ is a next-generation imaging system with 5x the speed and an unmatched limit of detection to accurately quantify and visualize the tissue microenvironment.

Explore mechanism of action, disease progression and therapeutic outcomes.

CELL PHENOTYPING

TISSUE ATLAS

BIOMARKER DISCOVERY

IMMUNE PROFILING

SIGNALING NETWORK

FUNCTIONAL STATE

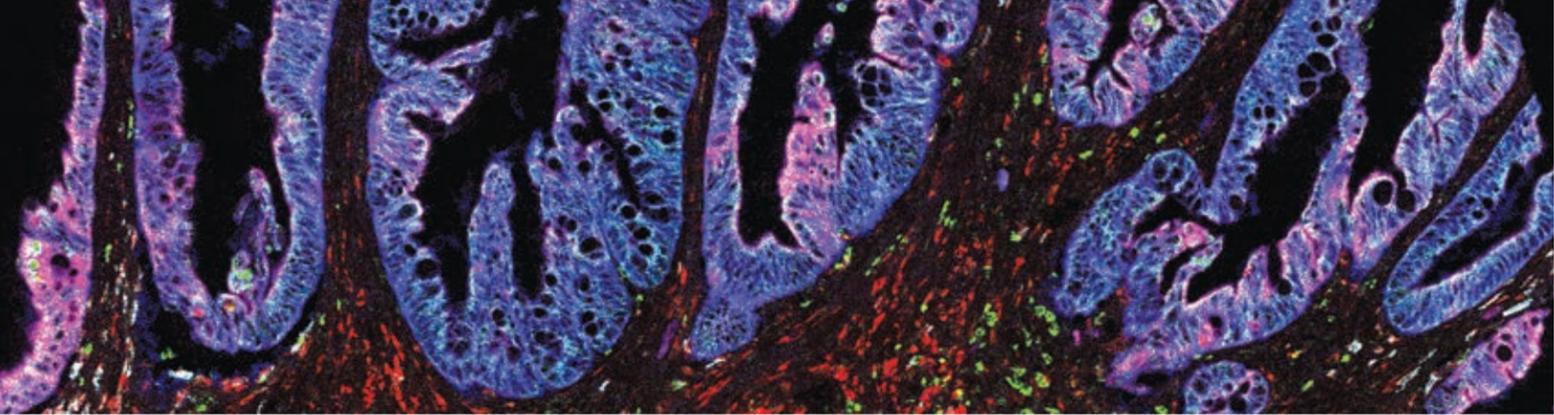
RARE CELL ANALYSIS

SPATIAL ARCHITECTURE

EXPRESSION SIGNATURE

Get the **right information**,
the **first time**, with the
Hyperion XT_i Imaging System.



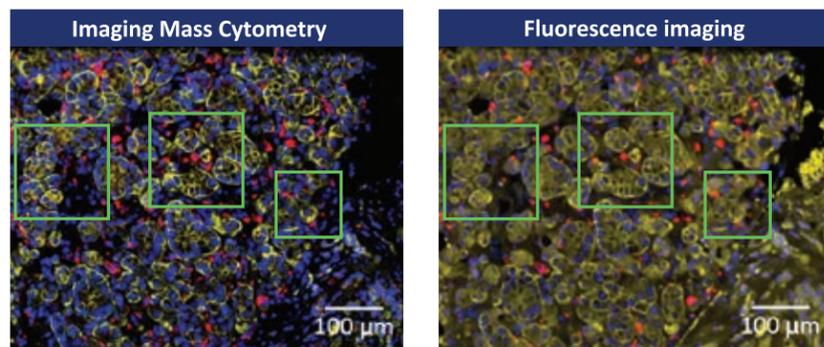
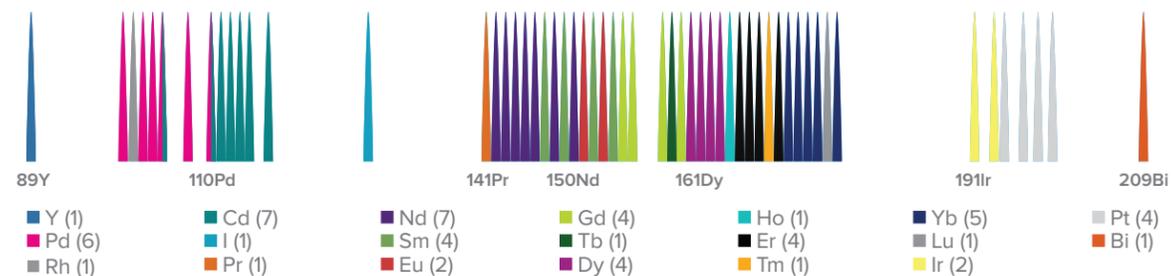


Quantify and visualize targets without compromise.

Imaging Mass Cytometry is the only technology equipped to handle high-plex imaging for all tissue types – including lung, bone marrow, colon and brain – **without autofluorescence interference**, enhancing the sensitivity and specificity of imaging with clinical-grade-quality data.

GAIN TRUE BIOLOGICAL INSIGHTS

See clearly without artifacts and uncover data hidden within spatial context. IMC applies **purified heavy metal labels**, not normally found in biological systems, instead of fluorophores.

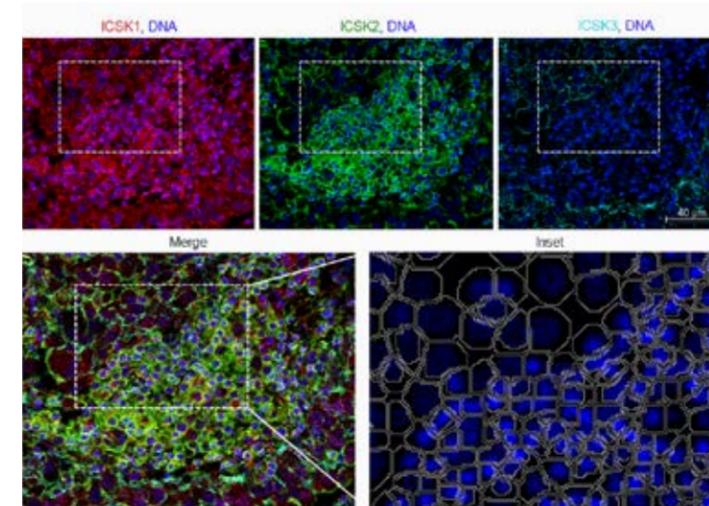


The IMC image (left) shows many well-defined red signals from CD68 that are indistinct or missing from the fluorescence image (right).

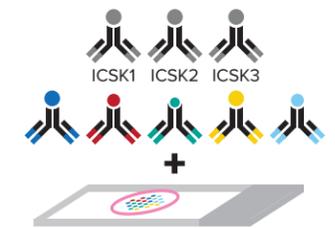
INTEGRATED CELL SEGMENTATION

Solving the most important step in spatial imaging.

The only technology with integrated cell segmentation that simplifies quantitative single-cell analysis in which cell types, cellular functions and intra- and intercellular processes can be defined.



Human formalin-fixed, paraffin-embedded non-small-cell lung cancer stained with the Maxpar IMC Cell Segmentation Kit. Scale bar is 40 μ m. Red, ICSK1; green, ICSK2; teal, ICSK3; blue, DNA stain. Cell segmentation was generated using Visiopharm® Phenoplex™ software.

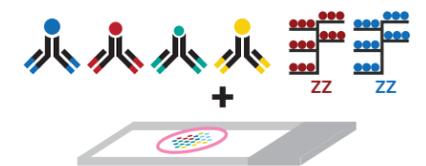


The Maxpar® IMC Cell Segmentation Kit contains three markers that can easily be added to existing panels.

COLLECTIVELY ILLUMINATE PROTEINS AND RNA

Explore the only imaging approach for protein and RNA co-detection on the same tissue sample to correlate transcriptional signatures and spatial context, pathogens and host cells or protein sources.

Quantify mRNA, proteins and post-translational modifications to expand knowledge of cellular networks and cell type-specific gene expression.



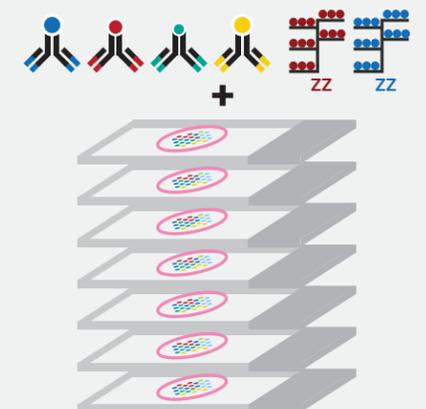
- | | |
|------------------------------|---------------------------|
| Tissue architecture | Transcriptional signature |
| Protein modifications | Cytokines and chemokines |
| Signaling pathway activation | Cell injury states |
| Cell proliferation | Cell proliferation |
| | And more ... |

ALL-AT-ONCE STAINING

IMC uniquely enables a stain all-at-once approach to streamline experiment workflows.

Large batches of 40–50 slides can be stained simultaneously to eliminate batch effects and technical variation, then stored until you are ready for analysis.

A workflow ideal for high-volume samples, **clinical trials** and multi-site studies.

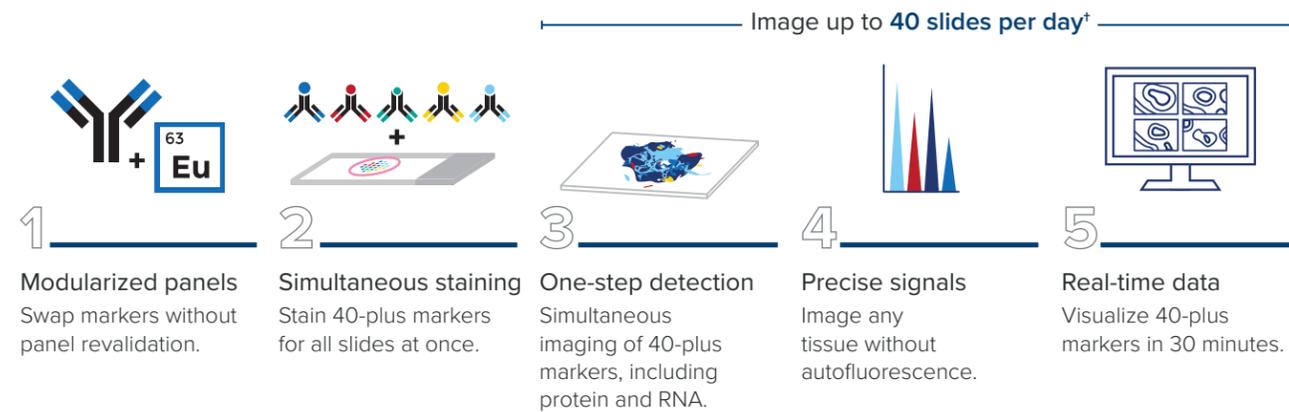


Biology is complex, seeing it in context doesn't have to be.

SPATIAL PHENOTYPING FROM SAMPLE COLLECTION TO HIGH-DIMENSIONAL INSIGHTS IN 3 DAYS*

Get results faster.

Hyperion XTi uses a one-step staining and detection approach that enables samples to be simultaneously stained, acquired and analyzed. Simplify your spatial imaging workflow without time-consuming panel design, acquisition cycles and management of spectral overlap.



* After panel and image analysis optimization

† Based on 3 regions of interest per slide, 0.5 mm x 0.5 mm

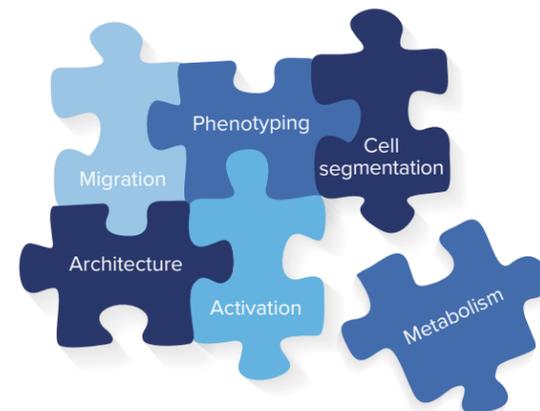
Imaging panels that can evolve with your research.

MULTIPLEXED PANEL DESIGN – WITH EASE

Start with ready-to-go panels.

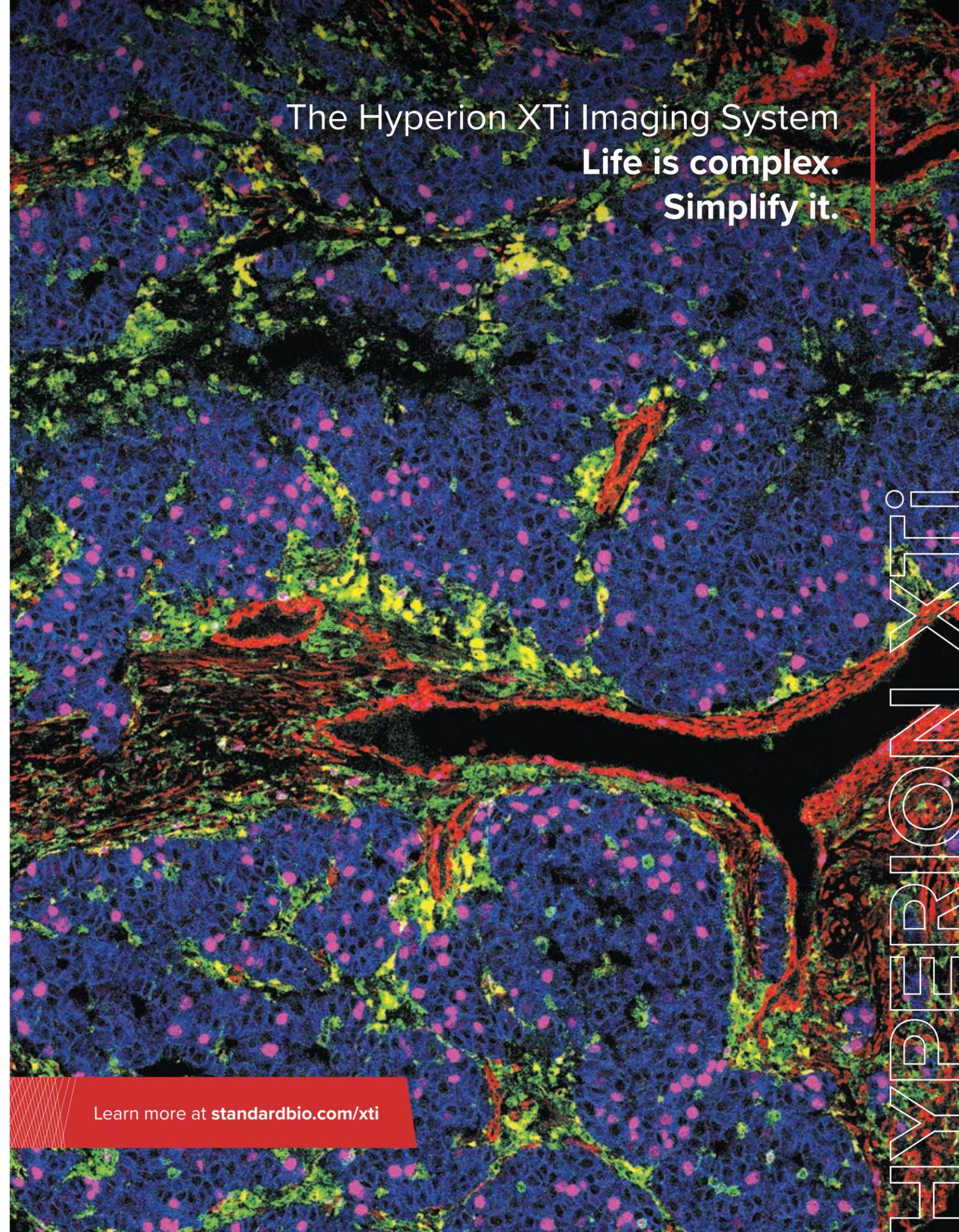
The **Maxpar Human Immuno-Oncology IMC Panel Kit** provides an understanding of tumor-infiltrating lymphocyte activation and infiltration, T cell activation and tissue architecture across several human cancer types.

The **Maxpar OnDemand™ Mouse Immuno-Oncology IMC Panel Kit** assesses tumor growth, metastasis and immune response across multiple mouse tissues.



Design your panel **in days**, not months.
Easily customize targets of interest.

The Hyperion XTi Imaging System
Life is complex.
Simplify it.



Learn more at standardbio.com/xti



Unleashing tools to accelerate
breakthroughs in human health™

We are dedicated to supporting your research. At Standard BioTools™, we meticulously work to improve and update our product offerings to better serve your needs.

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