



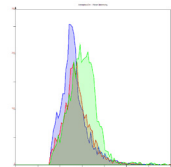
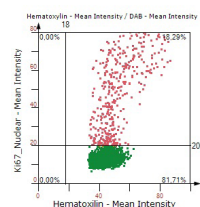
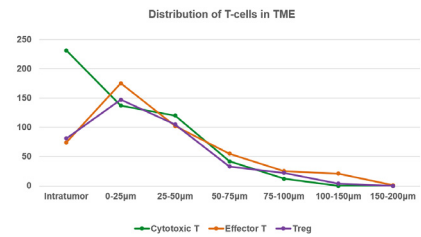
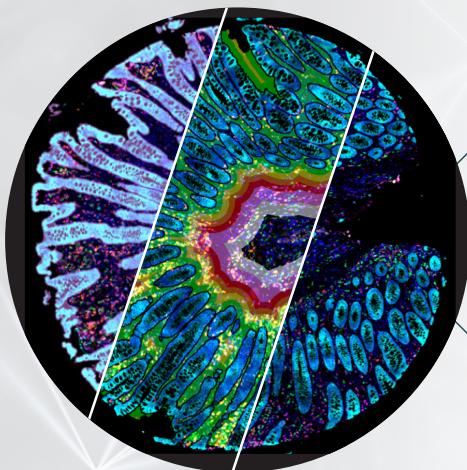
# TISSUEGNOSTICS

PRECISION THAT INSPIRES

THE ONE STOP SOLUTION FOR HIGH-END & AUTOMATED **TISSUE CYTOMETRY**



## FROM IMAGE TO DATA



## ONE SCANNING PLATFORM MULTIPLE APPLICATIONS

Acquire any IF/IHC processed sample on slides or in microwell plates with the versatile TissueFAXS cytometer.

### IMAGE CYTOMETRY SOLUTIONS

- Single cell detection
- Co-expression analysis
- Contextual tissue cytometry
- AI based histological classification
- Deep learning algorithms

### IMAGING MODALITIES

- Brightfield
- Widefield fluorescence
- Confocal
- Multispectral
- Multiplexing
- Live cell imaging (on inverted configuration)

### MODULARITY

- Highly sensitive sCMOS cameras
- Powerful multi-LED light engines
- Adaptable filter configurations
- Single-band, multi-band or liquid crystal tunable filters
- High-quality objective lenses (1x-100x)



**TISSUEFAXS PLUS**  
brightfield and  
fluorescence cytometer

### AUTOMATION

- One click workflow
- Tissue detection
- Autofocus and focal plane
- Live stitching
- Slide ID scanner/Barcode reader
- BF/FL Shading correction
- 3D visualization
- Automatic oil dispenser

### MICROSCOPE CONFIGURATIONS

- Precision stage for 8 slides
- High-throughput option for 120 slides
- Standard and oversized slides
- Inverted configuration for well plates

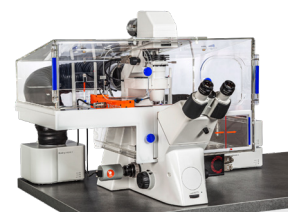
### FEATURED TISSUEFAXS CONFIGURATIONS



**TISSUEFAXS SPECTRA**  
multispectral imaging and  
spectral unmixing



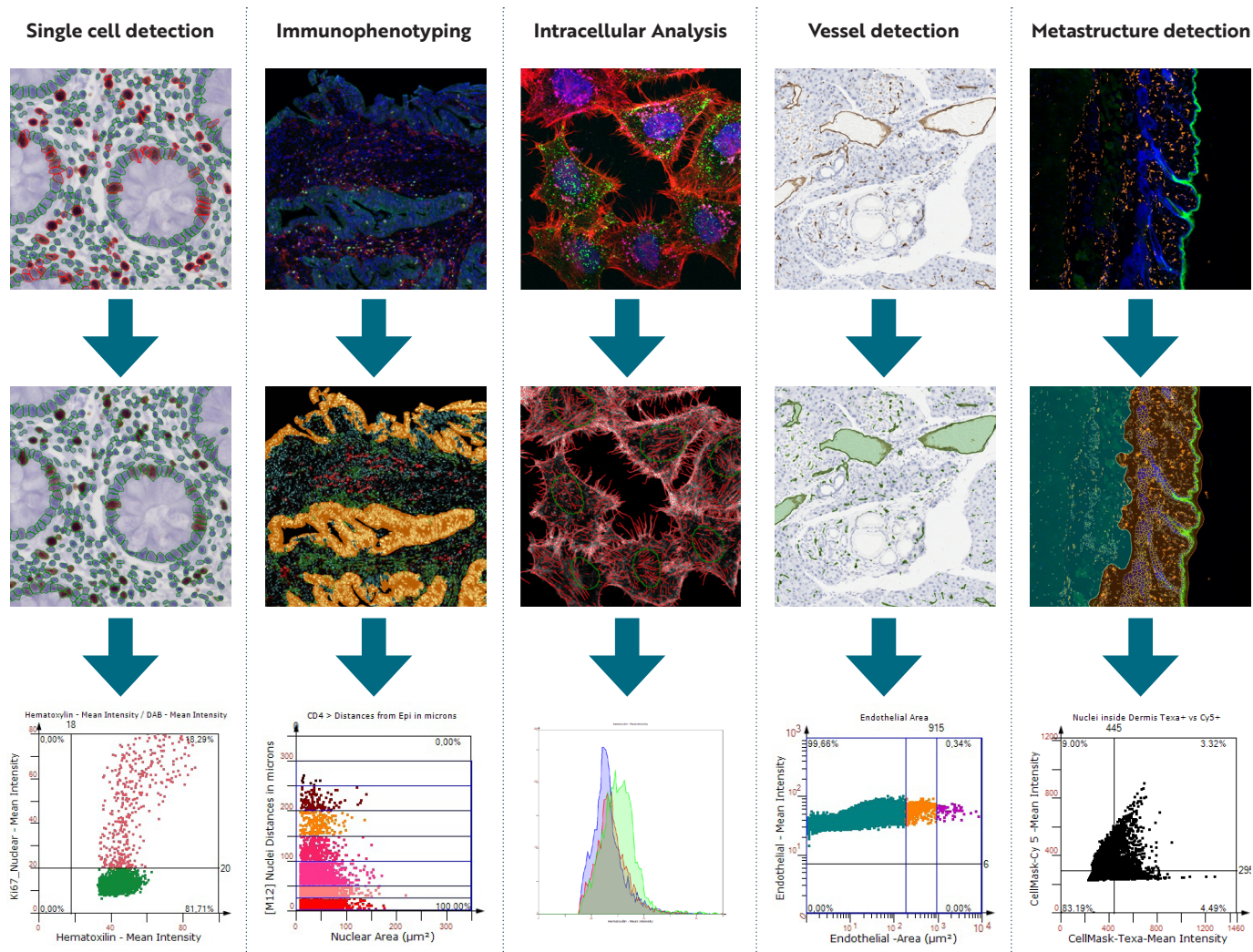
**TISSUEFAXS SL Q**  
high-throughput confocal  
whole slide scanner



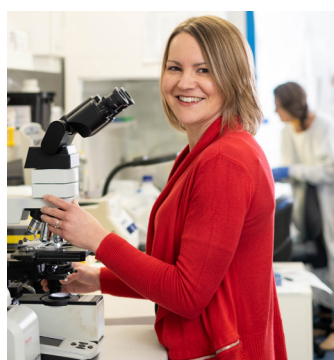
**TISSUEFAXS i PLUS**  
live cell imaging with full  
incubation control

## BIOMEDICAL IMAGE ANALYSIS

Powerful integrated image analysis software for single cell quantification (HistoQuest and TissueQuest) and/or contextual image analysis with integrated AI modules (StrataQuest).



## TG USER EXPERIENCES



### EXPLORE THE IMMUNE MICROENVIRONMENT

»We have found StrataQuest to be an incredibly powerful tool for assessing the complex nature of the immune microenvironment in patient cancer samples. One of the major strengths of the software is its flexibility, allowing us to customise our analyses to each specific research question.«

*(Dr. Melanie J. McCoy, Medical School, University of Western Australia, Crawley, WA, Australia)*

## REFERENCE PUBLICATIONS

### FROM AUSTRALIAN RESEARCH GROUPS

#### **SPATIAL IMMUNOPHENOTYPING IN COLORECTAL CANCER**

Miller TJ, Anyaegbu CC, Lee-Pullen TF, Spalding LJ, Platell CF, McCoy MJ. PD-L1+ dendritic cells in the tumor microenvironment correlate with good prognosis and CD8+ T cell infiltration in colon cancer. *Cancer Sci.* 2020 Dec 20. doi: 10.1111/cas.14781. Epub ahead of print. PMID: 33345422

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#### **DETECTION OF PROGNOSTIC AND PREDICTIVE BIOMARKERS IN CANCER**

Miller TJ, McCoy MJ, Lee-Pullen TF, et al. The Prognostic and Predictive Value of SOX2+ Cell Densities in Patients Treated for Colorectal Cancer. *Cancers (Basel).* 2020;12(5):1110. Published 2020 Apr 29. doi:10.3390/cancers12051110

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### COVID-19 RESEARCH CONDUCTED WITH TISSUEGNOSTICS PRODUCTS

#### **COVID-19 PATIENTS DISPLAY SEVERE ALTERATIONS IN ADAPTIVE IMMUNE RESPONSE**

Kaneko N, Kuo HH, Boucau J, et al. Loss of Bcl-6-Expressing T Follicular Helper Cells and Germinal Centers in COVID-19. *Cell.* 2020;183(1):143-157.e13. doi:10.1016/j.cell.2020.08.025

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#### **SARS-COV-2 INDUCES HYPOXIA IN THE LUNG**

Liu Y, Lv J, Liu J, et al. Mucus production stimulated by IFN-AhR signaling triggers hypoxia of COVID-19. *Cell Res.* 2020;30(12):1078-1087. doi:10.1038/s41422-020-00435-z

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