

# HALO PLATFORMS

## DIGITAL PATHOLOGY SOFTWARE



**indica labs**  
AI-POWERED PATHOLOGY

For Research Use Only. Not for use in diagnostic procedures.




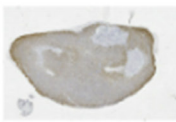



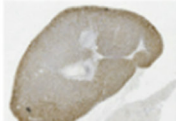


Accelerate Your Journey  
Imagine The Possibilities

**Leica**  
BIO SYSTEMS

# PROMOTING DISCOVERY THROUGH COLLABORATION



HALO Link is a browser-based digital pathology image management system that helps research organizations worldwide to safely and securely manage, share, and analyze digital slides and data.

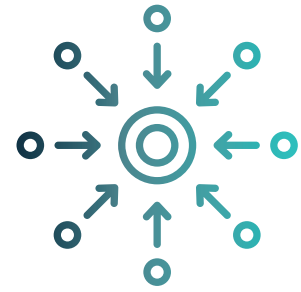
		Slide Attributes		Tasks <		
<input type="checkbox"/>	Label	Thumbnail	Barcode	Scan QC	Annotate	Final Review
<input type="checkbox"/>	578355 FOXX2 Group 0 - 0 mg/kg 		578355;Group 0 - 0 mg/kg;FOXX2	<span style="color: green;">■</span> Completed	<span style="color: orange;">■</span> Pending	<span style="color: orange;">■</span> Pending
<input type="checkbox"/>	578356 FOXX2 Group 2 - 40 mg/kg 		578356;Group 2 - 40 mg/kg;FOXX2	<span style="color: green;">■</span> Completed	<span style="color: orange;">■</span> Pending	<span style="color: orange;">■</span> Pending
<input type="checkbox"/>	578357 FOXX2 Group 2 - 40 mg/kg 		578357;Group 2 - 40 mg/kg;FOXX2	<span style="color: green;">■</span> Completed	<span style="color: orange;">■</span> Pending	<span style="color: orange;">■</span> Pending
<input type="checkbox"/>	578358 FOXX2 Group 0 - 0 mg/kg 		578358;Group 0 - 0 mg/kg;FOXX2	<span style="color: green;">■</span> Completed	<span style="color: orange;">■</span> Pending	<span style="color: orange;">■</span> Pending
<input type="checkbox"/>	578359 FOXX2 Group 1 - 20 mg/kg 		578359;Group 1 - 20 mg/kg;FOXX2	<span style="color: green;">■</span> Completed	<span style="color: orange;">■</span> Pending	<span style="color: orange;">■</span> Pending

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## Your Data, Centralized

- + Streamline your workflows and boost productivity by seamlessly incorporating images, metadata, and image analysis in a flexible study-based architecture.



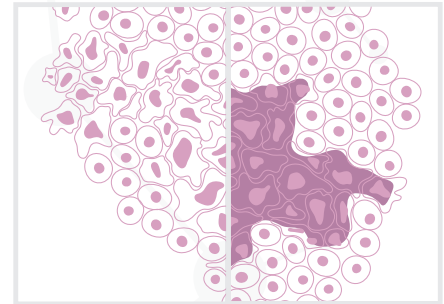
## Collaboration Without Limits

- + Collaborate with colleagues anytime, anywhere on shared image markups and analysis results.



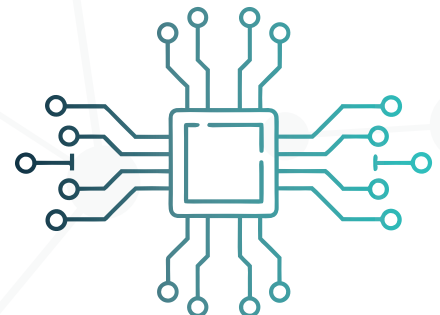
## Analysis Ready

- + Leverage industry leading image analysis through the ability to apply saved HALO® analysis settings and HALO AI classifiers within HALO Link.



## Flexible Integrations

- + Integrate HALO Link with LIS | LIMS systems, compatible third-party image analysis platforms, and other third-party databases of your choice thanks to our powerful API.



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## 1. Image & Data Upload

Automatically add images and data from scanners or pull from third-party databases.

**Invite Users**

<b>SM</b> Smith Lab	Viewer	✕
<b>TO</b> Tox Path Group	Editor	✕
<b>RS</b> rsheshadri@indicalab.com	Owner	✕
<b>SL</b> slarson@indicalab.com	Editor	✕

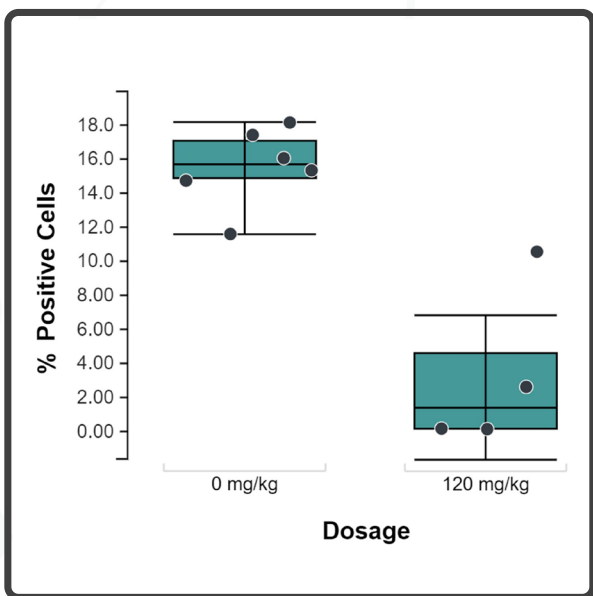
Thumbnail	Slide ID	Image QC	Annotate	Organ	Subject Group
	2354	Completed	Pending	colon	Group 1
	2355	Failed	Pending	head & neck	Group 2
	2356	Completed	Pending	lung	Group 3

## 2. Invite Collaborators

- + Organize users by group and invite them simultaneously; ensure data security and integrity with role-based access permissions.

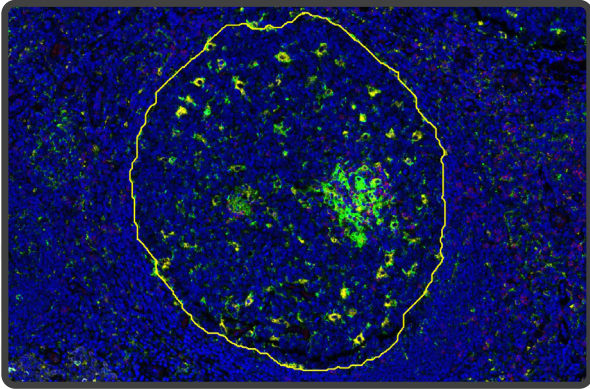
## 3. Organize & Track

- + Organize studies and slides using custom data fields and leverage powerful search functionality to quickly locate slides and studies of interest.



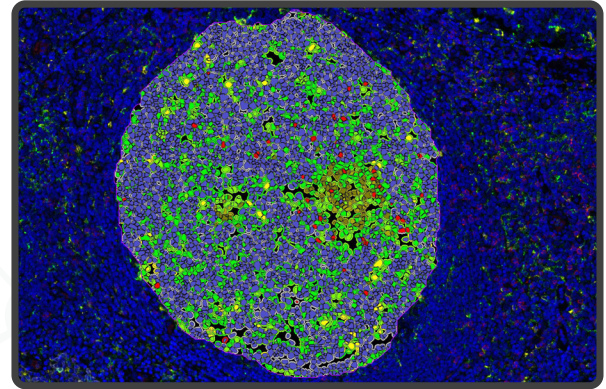
## 6. Visualize

- + Visualize analysis results using interactive markups and review trends and perform quality control checks using diverse plotting tools including heatmaps, scatter, violin, and box and whisker plots.



## 4. Annotate

- + Collaborate with colleagues on tissue annotation using a robust collection of tools; minimize user fatigue with ergonomic navigation options.



## 5. Analyze

- + Score tissues or perform other image analysis by launching saved HALO analysis settings and HALO AI classifiers.

Analysis jobs	Scan QC	Annotate	Final Review
8/8/2024 11:47 AM EDT 7/9/2024 6:41 PM EDT - + 3 jobs	Completed	Completed	Pending
8/8/2024 11:47 AM EDT 9/26/2023 1:07 PM EDT 6/3/2023 9:48 AM EDT -	Completed	Completed	Pending
8/8/2024 11:47 AM EDT 9/26/2023 1:07 PM EDT 6/3/2023 9:48 AM EDT -	Completed	Completed	Pending
8/8/2024 11:47 AM EDT 9/26/2023 1:07 PM EDT 6/3/2023 9:48 AM EDT -	Completed	Completed	Pending
8/8/2024 11:47 AM EDT 9/26/2023 1:07 PM EDT 6/3/2023 9:48 AM EDT -	Completed	Completed	Pending

## 7. Review

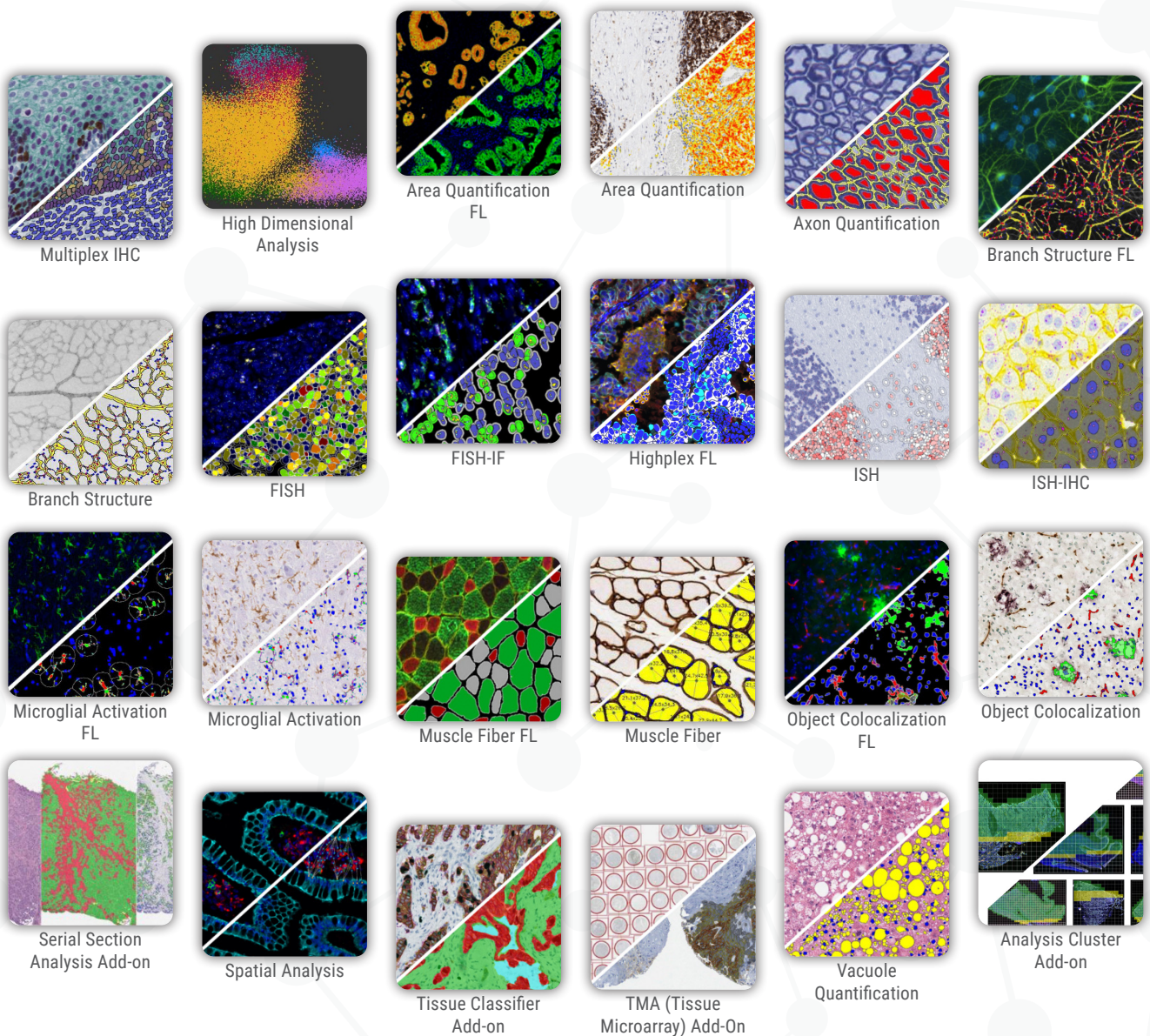
- + Use customizable slide tasks to track workflow progress and note final approval or the need for additional model training or analysis setting modifications.



# IMAGE ANALYSIS SIMPLIFIED

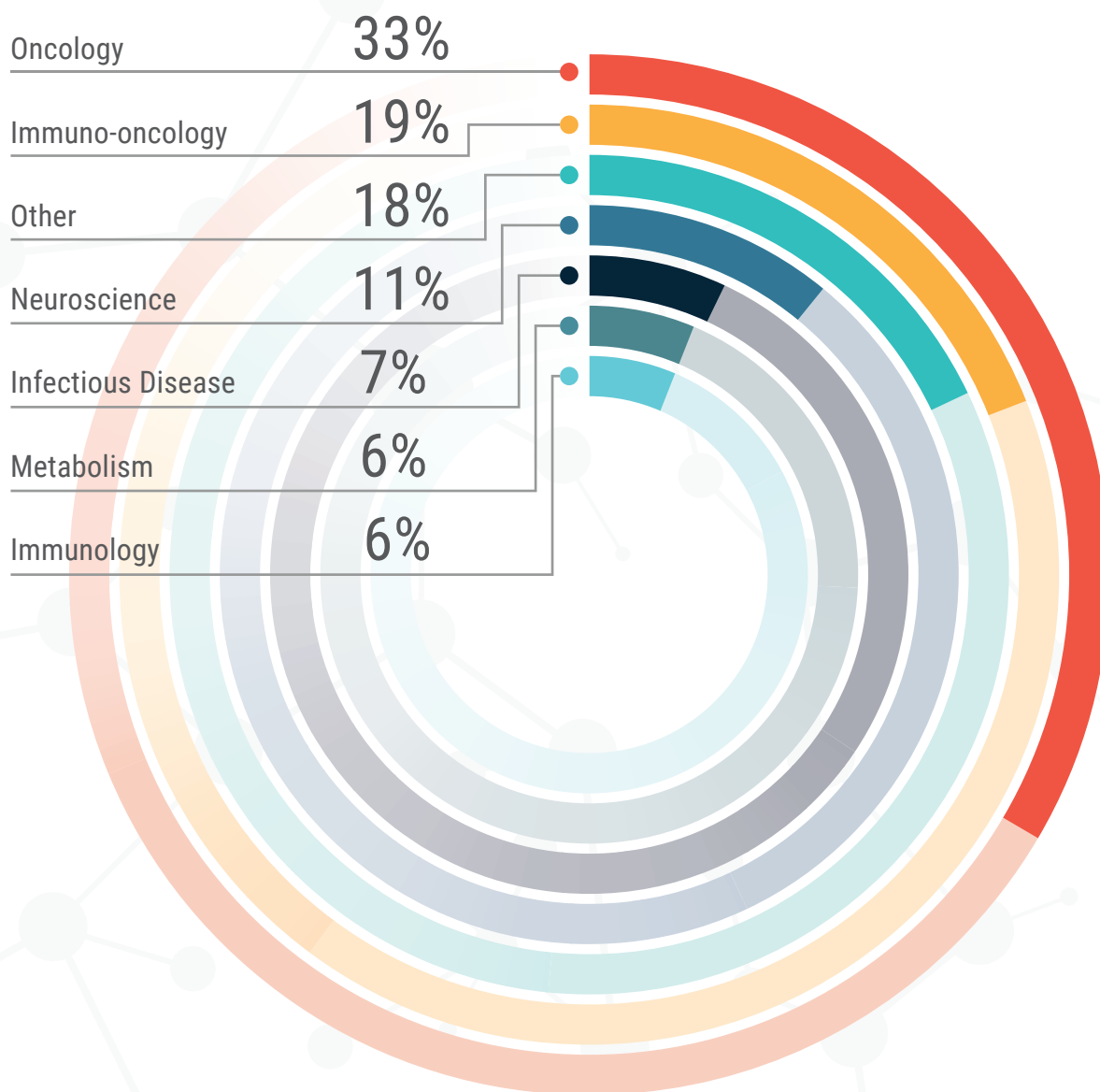


With unmatched ease-of-use and scalability, powerful analytic capabilities, and the fastest processing speeds available for digital pathology, research, pharma and healthcare organizations worldwide are using HALO® for high-throughput, quantitative tissue analysis.



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# 1,600+ PEER-REVIEWED PUBLICATIONS ACROSS DIVERSE FIELDS OF RESEARCH



HALO image analysis appears in over 1,600 peer-reviewed publications, and every year the number continues to grow. Our customers are located around the world and publish across a wide range of disciplines and research areas, from oncology and immuno-oncology to neuroscience, immunology, and infectious disease.

# ADVANCING DISCOVERY WITH TRAINABLE AI

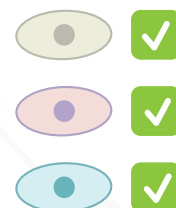


With its advanced deep learning networks and streamlined train-by-example workflow, HALO AI is ready to solve your image analysis challenges in segmentation, classification, and phenotyping – no computer programming or AI knowledge required.



## Manage Variability

+ Easily train classifiers that accommodate variability to deliver accurate segmentation and classification results across large studies and different stains.



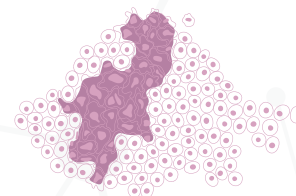
## Exceptional Identification

+ Develop nuclei or cell membrane segmentation networks optimized for your application and incorporate them into HALO modules for maximum utility.



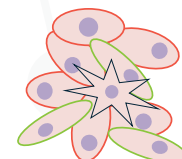
## Powerful Tissue Classification

+ Create high-resolution tissue classifiers in brightfield and fluorescence by quickly optimizing advanced pre-trained networks for your images.



## Advanced Phenotyping

+ Quantify and characterize cells with complex morphologies or lacking biomarker information by training a phenotyper to identify phenotypes of interest.



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# HALO AI APPS

Select from pre-trained HALO AI Apps to accelerate your AI development.

**Ovarian H&E Tumor Tissue Detection**

**Pan Cancer H&E Lymphocyte Cell Phenotyper**

**Breast IHC Cancer Cell Phenotyper**

**Breast IHC Tumor Tissue Detection**

**CRC H&E Cancer Cell Phenotyper**

**Gastric H&E Tumor Tissue Detection**

**NSCLC IHC Tumor Tissue Detection**

**NSCLC IHC Cancer Cell Phenotyper**

**NSCLC H&E Tumor Tissue Detection**

**NSCLC H&E Cancer Cell Phenotyper**

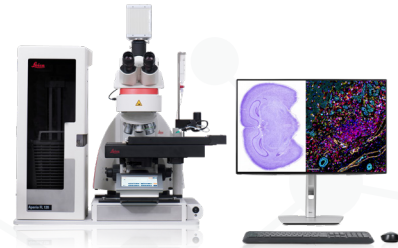
**HNSCC H&E Tumor Tissue Detection**

**Aperio GT 450 scanner**

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# COMPREHENSIVE SOLUTIONS FOR LIFE SCIENCE RESEARCH

Today's translational research is the cornerstone of future clinical advancements. Leica Biosystems provides an optimized solutions portfolio for tissue-based research to deliver the reproducibility and flexibility your research demands.



## STAIN

The **BOND RX** high-throughput research stainer delivers speed and flexibility for IHC, ISH, and multiplexing staining with either chromogenic or fluorescence markers.

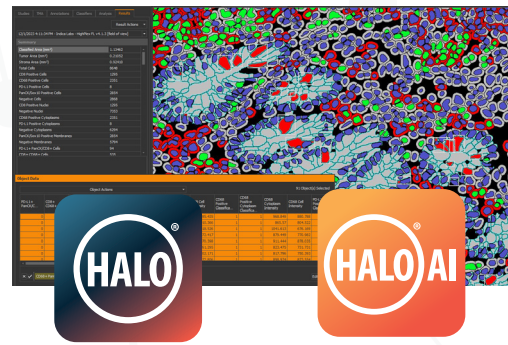
## SCAN

Capture high-quality, high-resolution whole slide images of your research slides. Choose the **Aperio FL 120** scanner for the flexibility of brightfield, fluorescence, and FISH staining in a single platform, or the **Aperio GT 450** scanner for large volume brightfield scanning.

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# QUALITY CONSISTENCY REPRODUCIBILITY

Label	Thumbnail	Slide Attributes	Tasks
		Barcode	Scan QC
<input type="checkbox"/>		S78356Group 0 - 0 mg/kg/POK2	Completed
<input type="checkbox"/>		S78356Group 2 - 40 mg/kg/POK2	Completed
<input type="checkbox"/>		S78357Group 2 - 40 mg/kg/POK2	Completed
<input type="checkbox"/>		S78356Group 0 - 0 mg/kg/POK2	Completed
<input type="checkbox"/>		S78356Group 1 - 20 mg/kg/POK2	Completed



## MANAGE

**HALO Link** software provides an optimized platform to integrate whole slide images, study data, and analysis results for secure sharing across local and remote research teams.

## ANALYZE

Extract insights from your slides with advanced analysis tools. Intuitive design is coupled with powerful analytics in **HALO** and **HALO AI** software solutions for quantitative tissue analysis.

# DIGITAL PATHOLOGY

## Focus on Experience

Adopting digital pathology is complex, but it doesn't have to be complicated. Leica Biosystems is proud to partner with Indica Labs to deliver comprehensive digital pathology solutions by combining expertise in scanners, image management, and image analysis software. Leica Biosystems can clarify your organization's path to digitally driven discoveries through our world-leading, modular technology that is deployed in thousands of digital pathology implementations worldwide.

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For detailed contact information on your nearest sales office or distributor please visit our website: [LeicaBiosystems.com](https://www.LeicaBiosystems.com)

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Leica Biosystems is a global leader in workflow solutions and automation. As the only company to own the workflow from biopsy to diagnosis, we are uniquely positioned to break down the barriers between each of these steps. Our mission of "Advancing Cancer Diagnostics, Improving Lives" is at the heart of our corporate culture. Our easy-to-use and consistently reliable offerings help improve workflow efficiency and diagnostic confidence. The company is represented in over 100 countries. It has manufacturing facilities in 9 countries, sales and service organizations in 19 countries, and an international network of dealers. The company is headquartered in Nussloch, Germany. Visit [LeicaBiosystems.com](https://www.LeicaBiosystems.com) for more information.