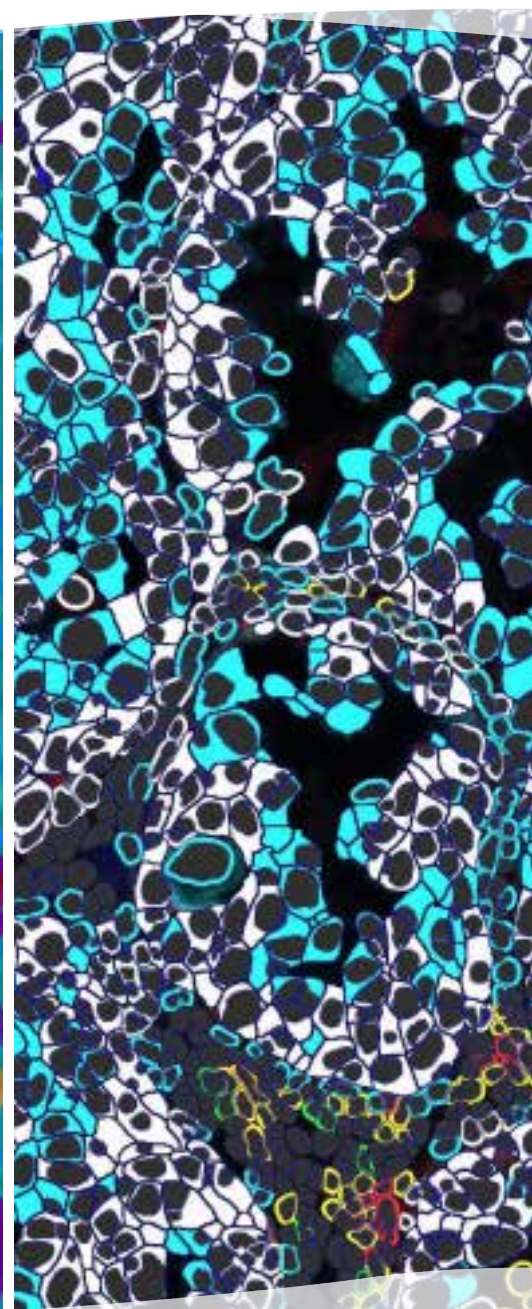
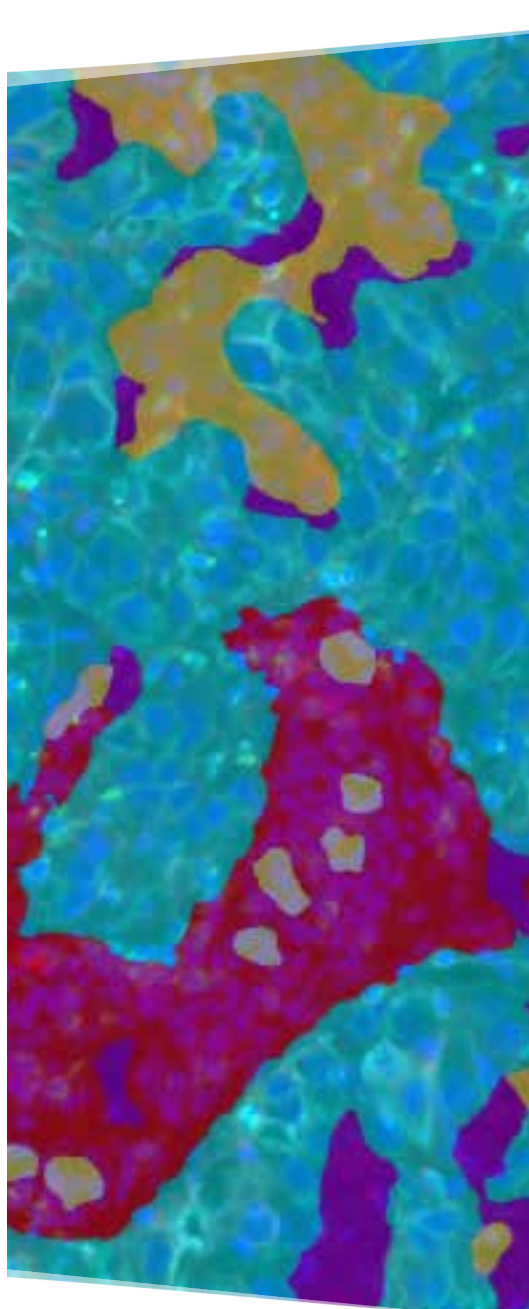
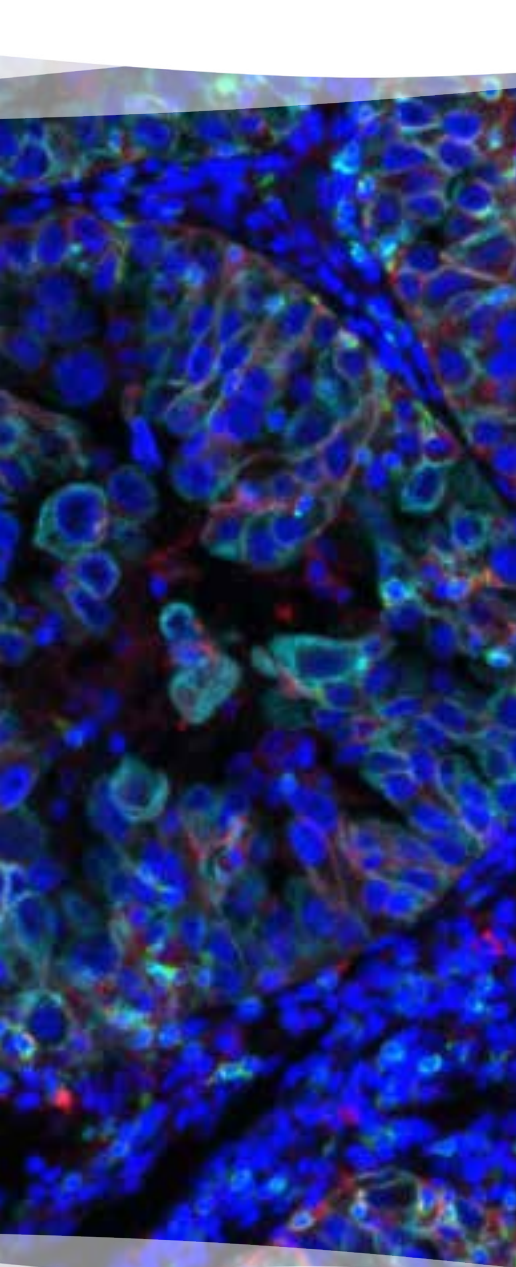




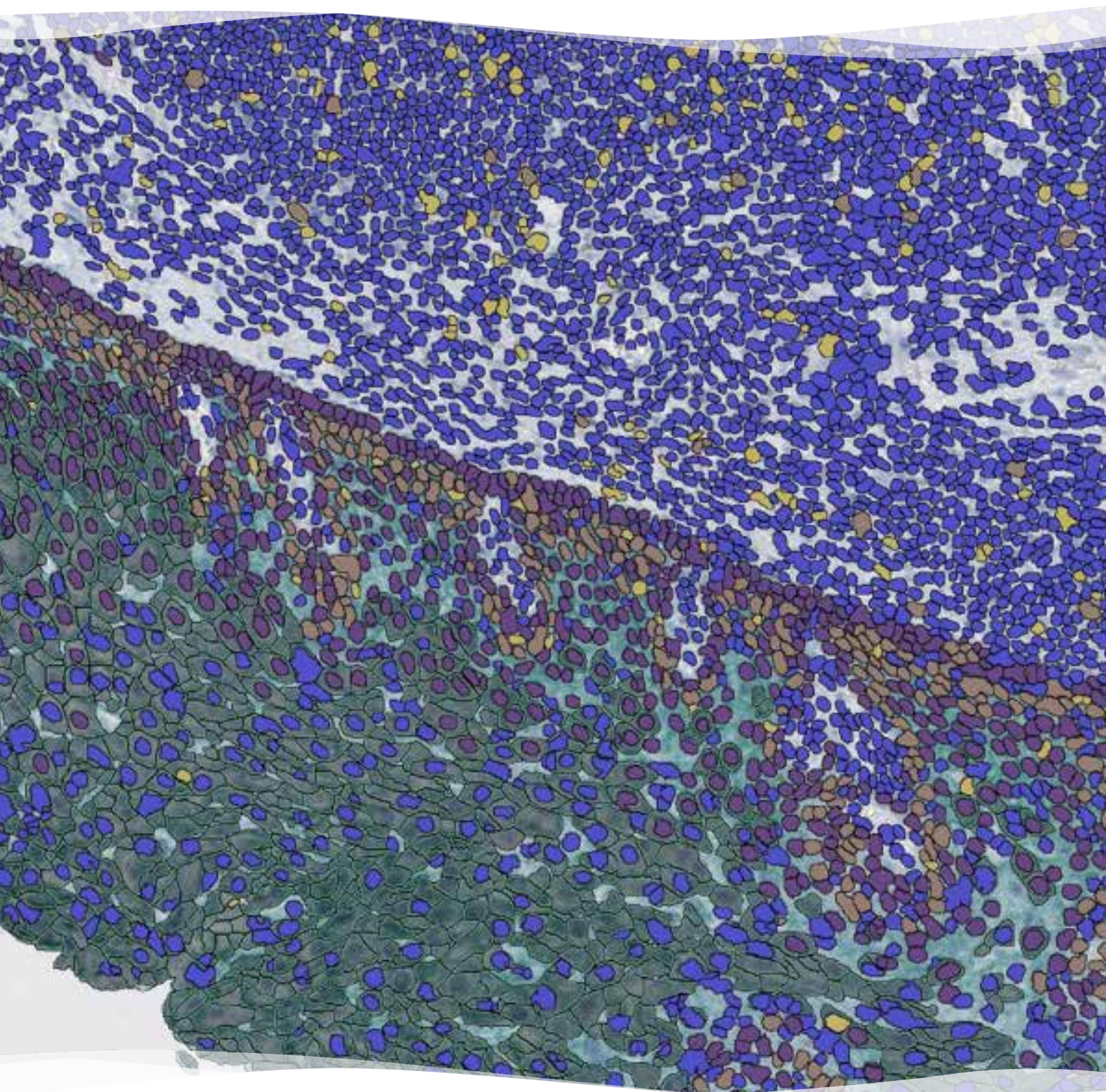
HALO Platforms for Life Sciences



POWERING DISCOVERY WITH AI

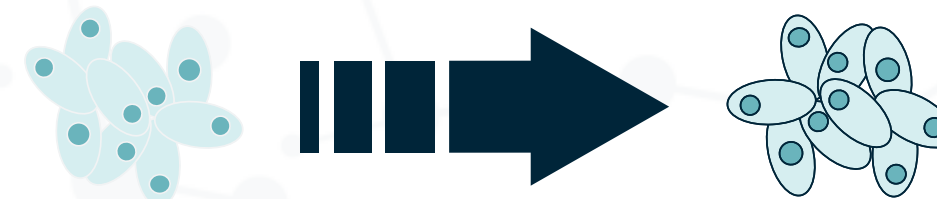


HALO® offers unmatched ease-of-use and scalability, powerful AI-assisted analytic capabilities, and the fastest processing speeds available for digital pathology.



Integrated AI

- + Achieve highly accurate identification by leveraging pre-trained deep-learning networks for nuclei and membrane segmentation.



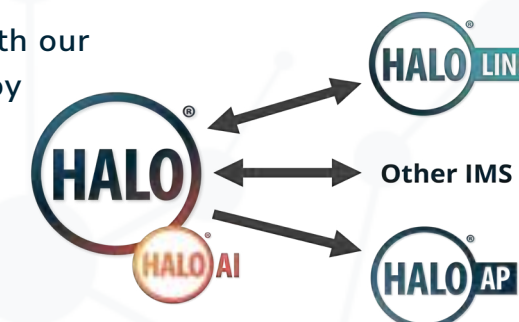
Intuitive Workflow

- + Image analysts of all levels can be up and running with core analysis functions in just a couple of hours thanks to a user-centric platform.



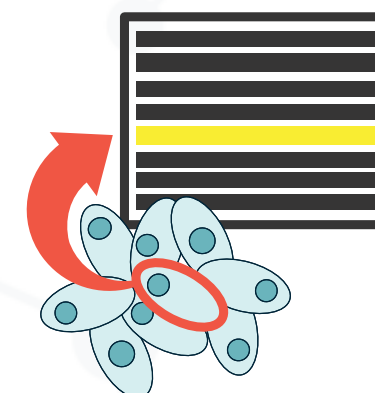
Interoperable Ecosystem

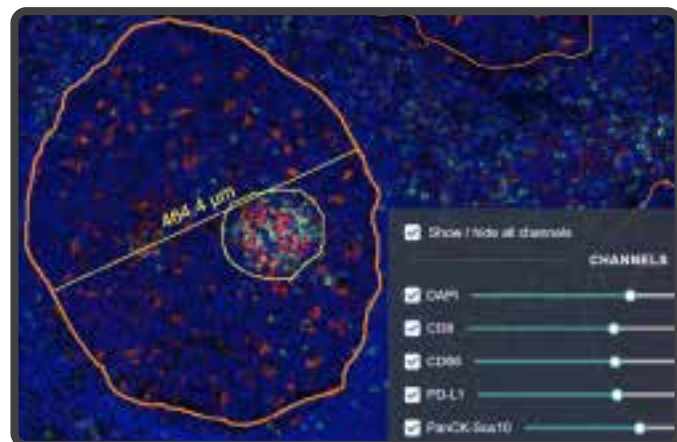
- + Seamlessly integrate with our other platforms or deploy custom integrations using our powerful and open GraphQL API.



Extensive Analytics

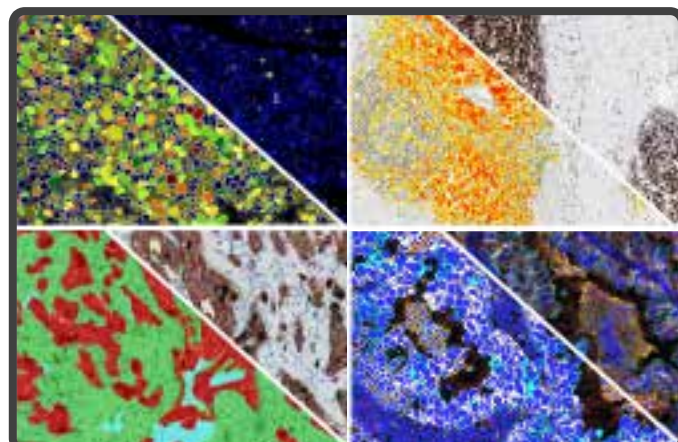
- + Collect per-cell morphological and multiplexed expression data while maintaining an interactive link between cell data and image.





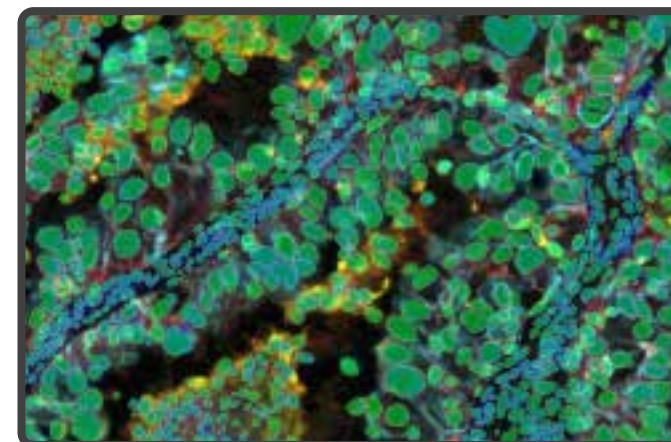
1 Annotate and Explore

- + Open files from all major scanners and annotate and explore images with a variety of tools.



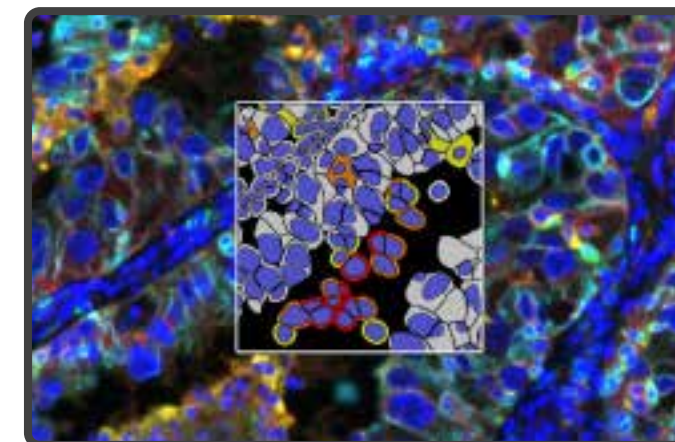
2 Select Module

- + Choose from dozens of modules purpose-built to simplify your analysis workflow, like the Highplex FL module demonstrated in this workflow.



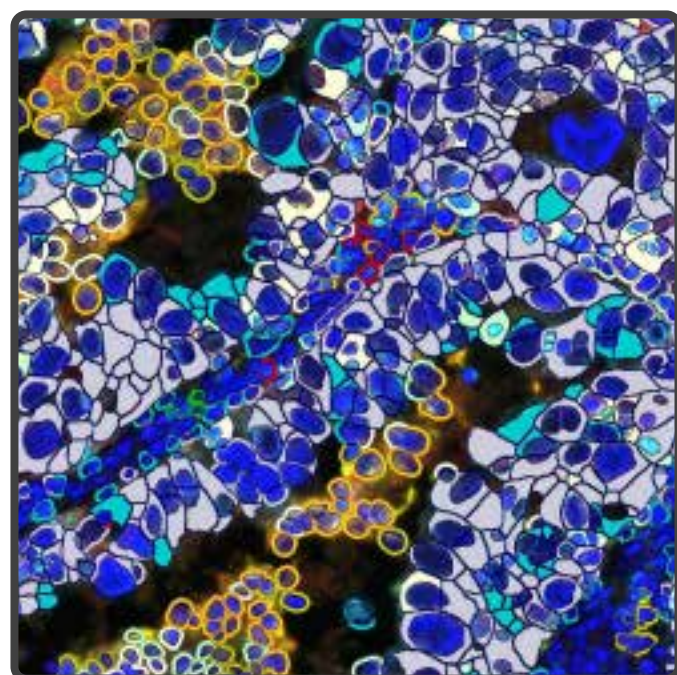
3 Segment Cells & Tissues

- + Develop machine learning-based tissue classifiers, deploy pre-trained AI networks for nuclear and membrane segmentation, or integrate custom segmentation networks developed in HALO AI.



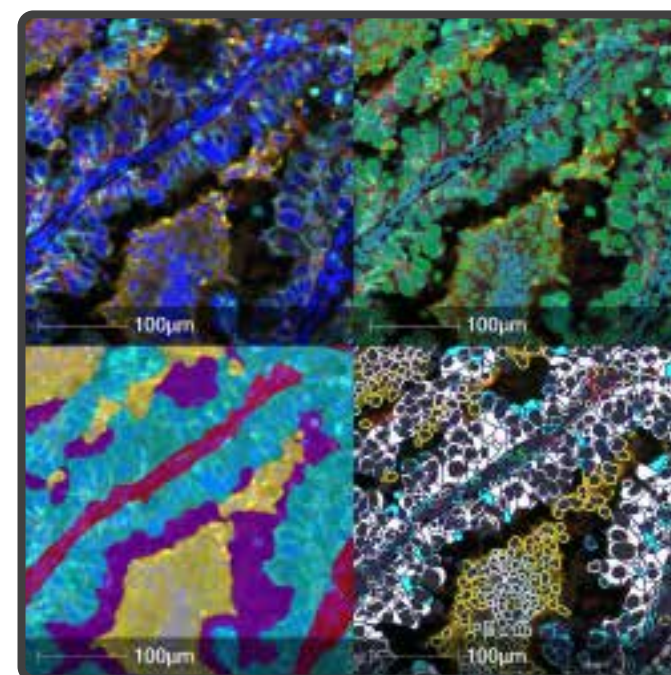
4 Classify & Analyze

- + Use the live feedback provided by the real-time tuning window to easily set biomarker positivity thresholds and refine combined phenotypes before launching analysis.



5 Visualize

- + Review your results with sortable and filterable cell-by-cell data linked to your image and observe cell populations with ease thanks to interactive markup images that allow you explore populations of interest.



6 Export

- + Get exactly the data you need for downstream analysis with advanced export functions, and construct publication-quality figures in a few clicks with the figure maker feature.



Scan to Learn More

ADVANCING DISCOVERY WITH TRAINABLE AI

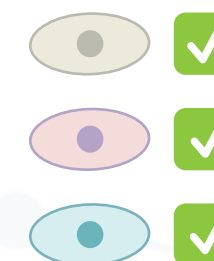
With its advanced deep learning networks and streamlined train-by-example workflow, HALO AI is ready to solve your image analysis challenges in segmentation, classification, and phenotyping — no computer programming or AI knowledge required.

HALO AI



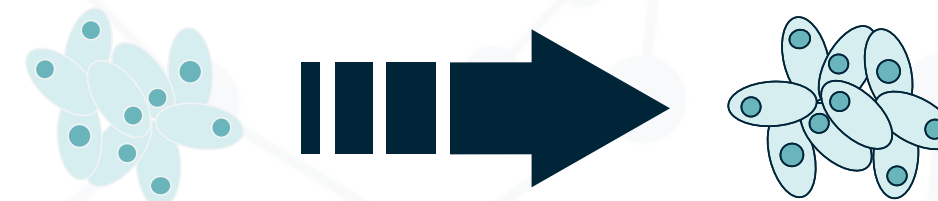
Manage Variability

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



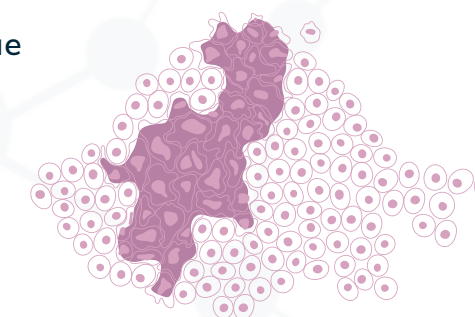
Exceptional Identification

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



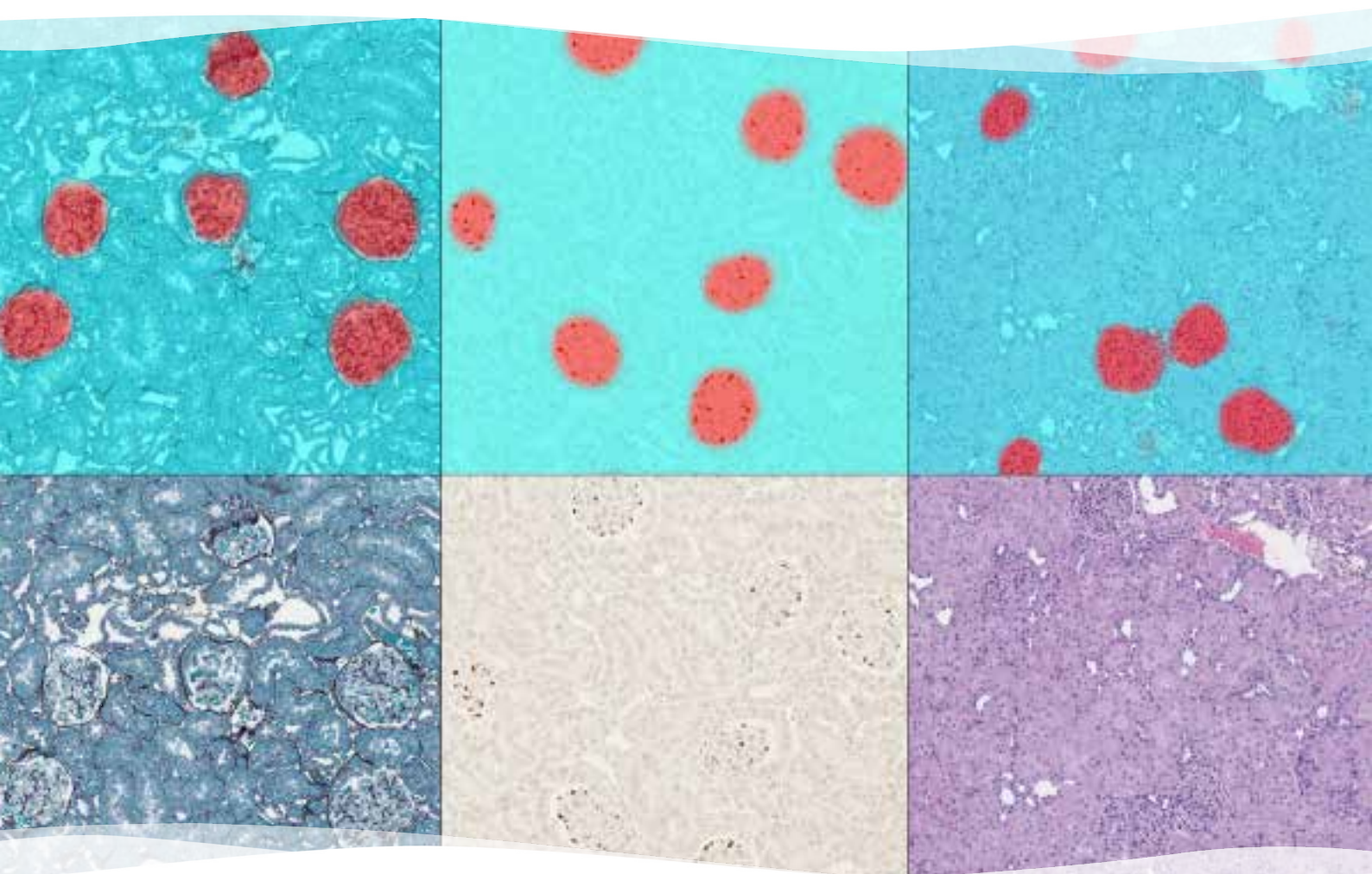
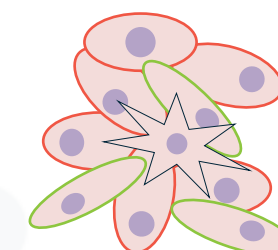
Powerful Tissue Classification

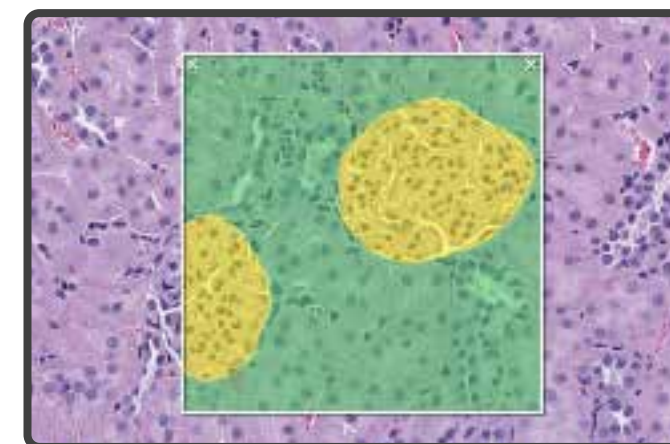
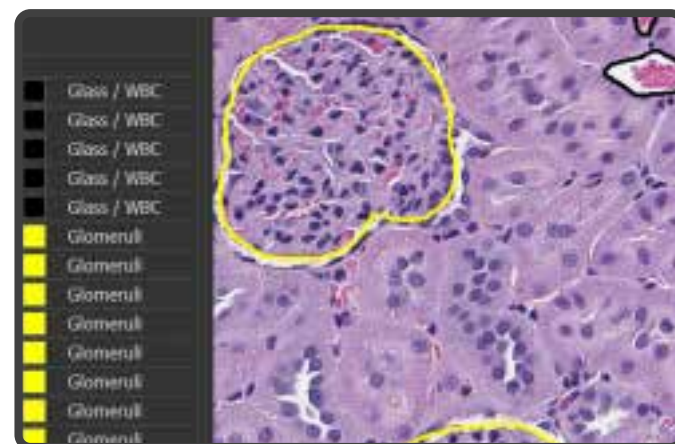
- + Create high-resolution tissue classifiers in brightfield and fluorescence by quickly optimizing advanced pre-trained networks for your images.



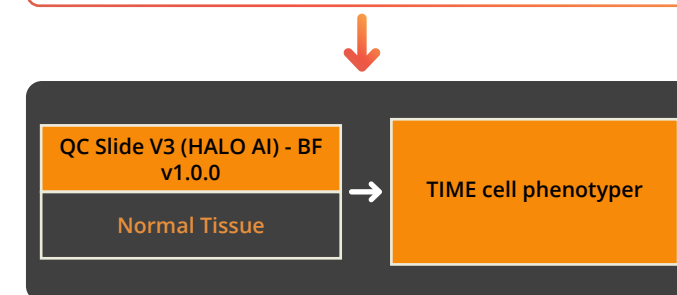
Advanced Phenotyping

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



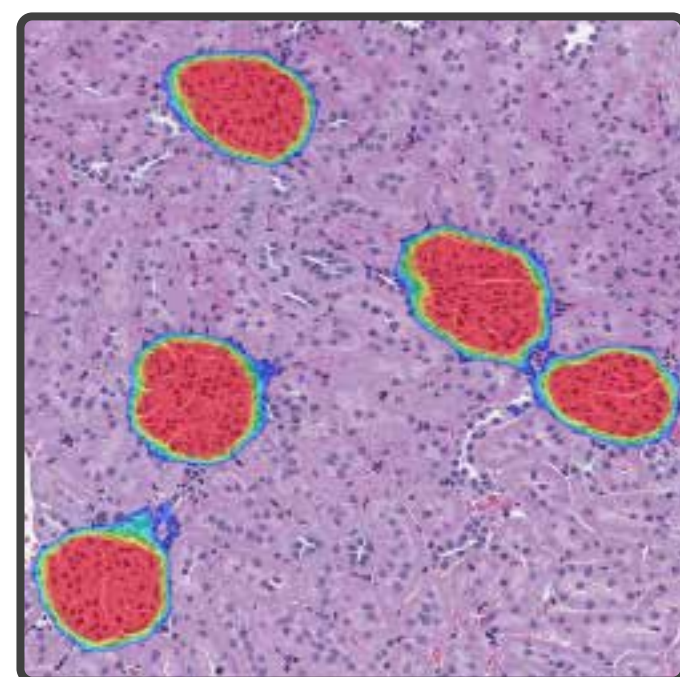


HALO AI Apps
Select from our pre-trained HALO AI Apps to accelerate your AI development.



1. Select Network

- + Select the architecture for your classifier from our collection of segmentation, classification, and phenotyping networks for brightfield and fluorescence applications, or import compatible AI models.

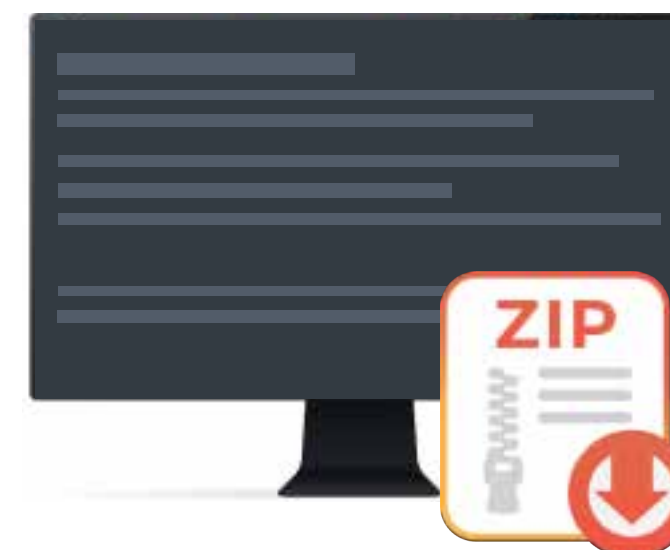


2. Create Classes & Annotate

- + Define classes and quickly acquire training annotations using the AI-powered annotation tool and a variety of freehand tools.

3. Train

- + Use real-time tuning to watch your model train in real time and evaluate performance, add training data, or change network parameters on-the-fly.



4. Deploy

- + Deploy your models within HALO modules or as free-standing analysis and create time-saving classifier pipelines by connecting multiple classifiers into a single workflow.

5. Visualize

- + Investigate your results with interactive markup images or visually evaluate model performance using classification probability heatmaps.

6. Export

- + Leverage flexible export options to export your HALO AI model in the ONNX format to easily move classifiers between machines and share with collaborators.



Scan to Learn More

PROMOTING DISCOVERY THROUGH COLLABORATION

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



		Slide Attributes		Tasks			
☐	Label	Thumbnail	Barcode	Analysis jobs	Scan QC	Annotate	Final Review
☐			578355:Group 0 - 0 mg/kg:FOXX2	9/4/2024 3:25 PM EDT - 9/4/2024 2:38 PM EDT - + 5 jobs	Completed	Completed	Pending
☐			578356:Group 2 - 40 mg/kg:FOXX2	9/4/2024 3:25 PM EDT - 9/4/2024 2:38 PM EDT - + 5 jobs	Completed	Completed	Pending
☐			578357:Group 2 - 40 mg/kg:FOXX2	9/4/2024 3:25 PM EDT - 9/4/2024 2:38 PM EDT - + 5 jobs	Completed	Completed	Pending
☐			578358:Group 0 - 0 mg/kg:FOXX2	9/4/2024 3:25 PM EDT - 9/4/2024 3:23 PM EDT - + 5 jobs	Completed	Completed	Failed
☐			578359:Group 1 - 20 mg/kg:FOXX2	9/4/2024 3:25 PM EDT - 9/4/2024 2:38 PM EDT - + 6 jobs	Completed	Completed	Pending
☐			578360:Group 0 - 0 mg/kg:FOXX2	9/4/2024 3:25 PM EDT - 9/4/2024 2:38 PM EDT - + 5 jobs	Completed	Completed	Pending



Your Data, Centralized

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



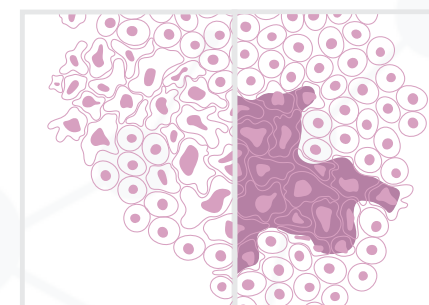
Collaboration Without Limits

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



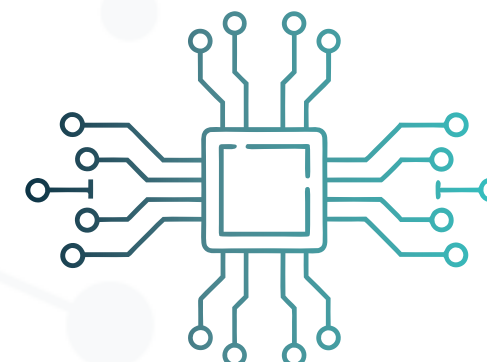
Analysis Ready

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



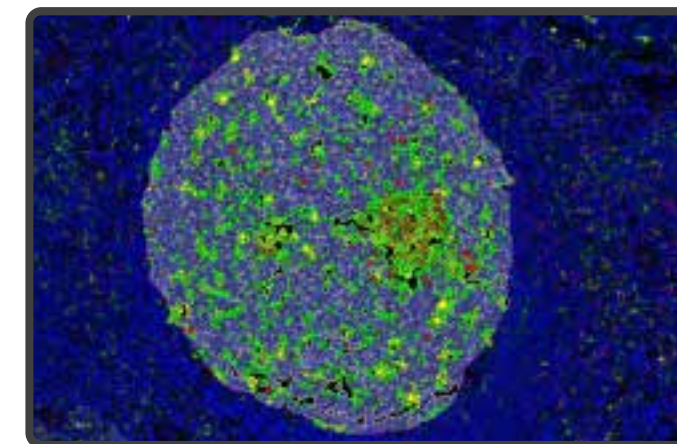
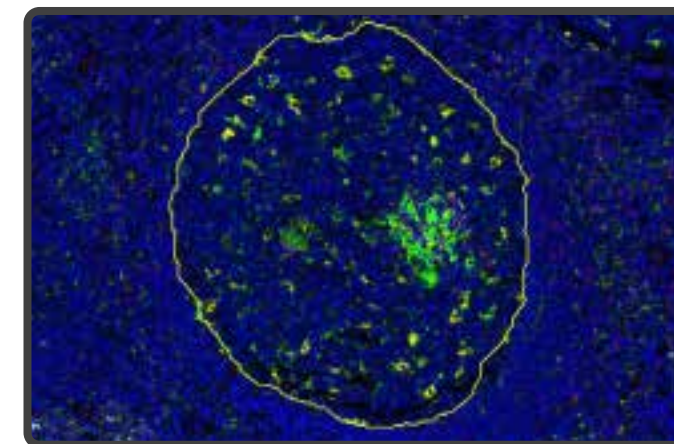
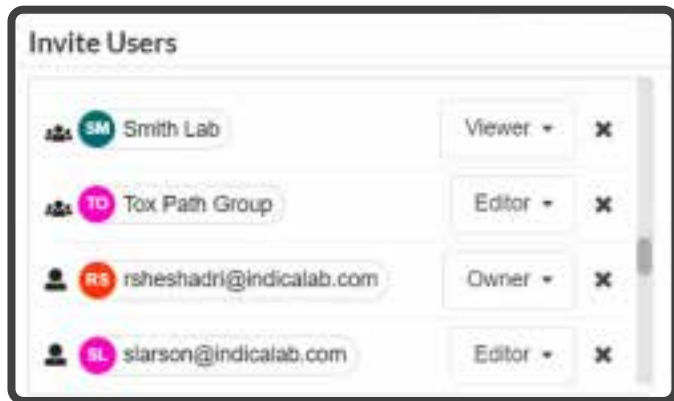
Flexible Integrations

- + 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.



1. Image & Data Upload

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



2. Invite Collaborators

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

3. Organize & Track

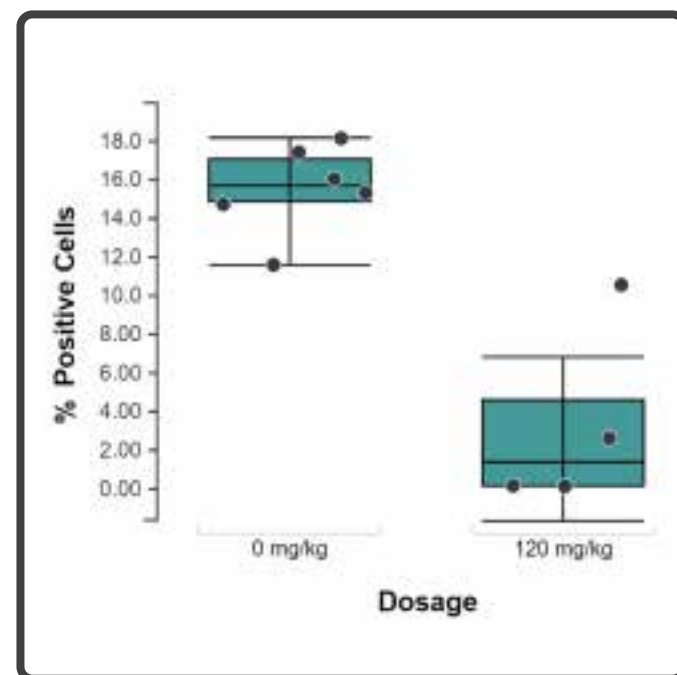
- + Organize studies and slides using custom data fields and leverage powerful search functionality to quickly locate slides and studies of interest.

4. Annotate

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

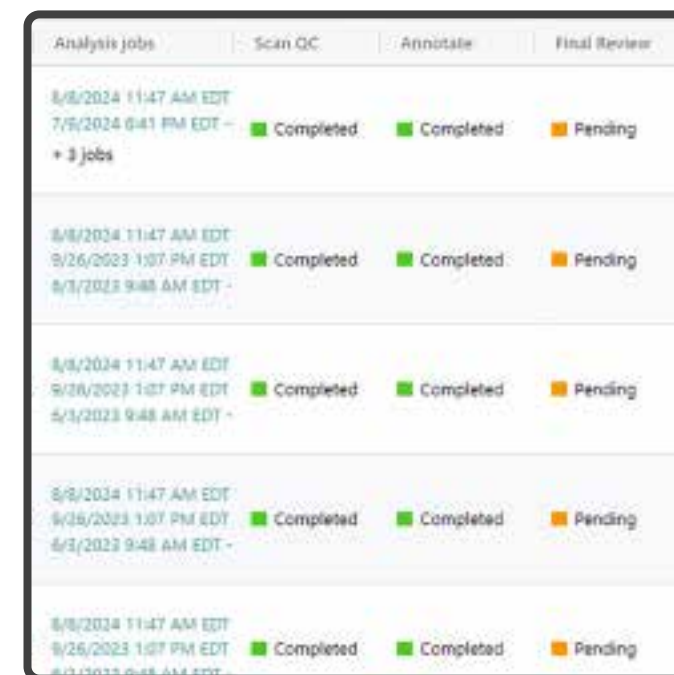
5. Analyze

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



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.



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.



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indicallab.com/halo-link/

COMPREHENSIVE TRAINING AND SUPPORT

At Indica Labs, we take pride in providing top-quality support for all our products. Unlimited IT support, scientific support, training, and access to our Learning Portal are included with every license of HALO, HALO AI, and HALO Link.



Global Support



Software Upgrades



Training



FULLY MANAGED, CLOUD-BASED DEPLOYMENTS

HALO, HALO AI, and HALO Link can be deployed on-premise or in the cloud to work within your IT framework. Our Cloud Services team helps organizations migrate to, manage, and optimize their cloud deployments, delivering a highly performant, flexible, and secure environment while you maintain full ownership of your AWS account.

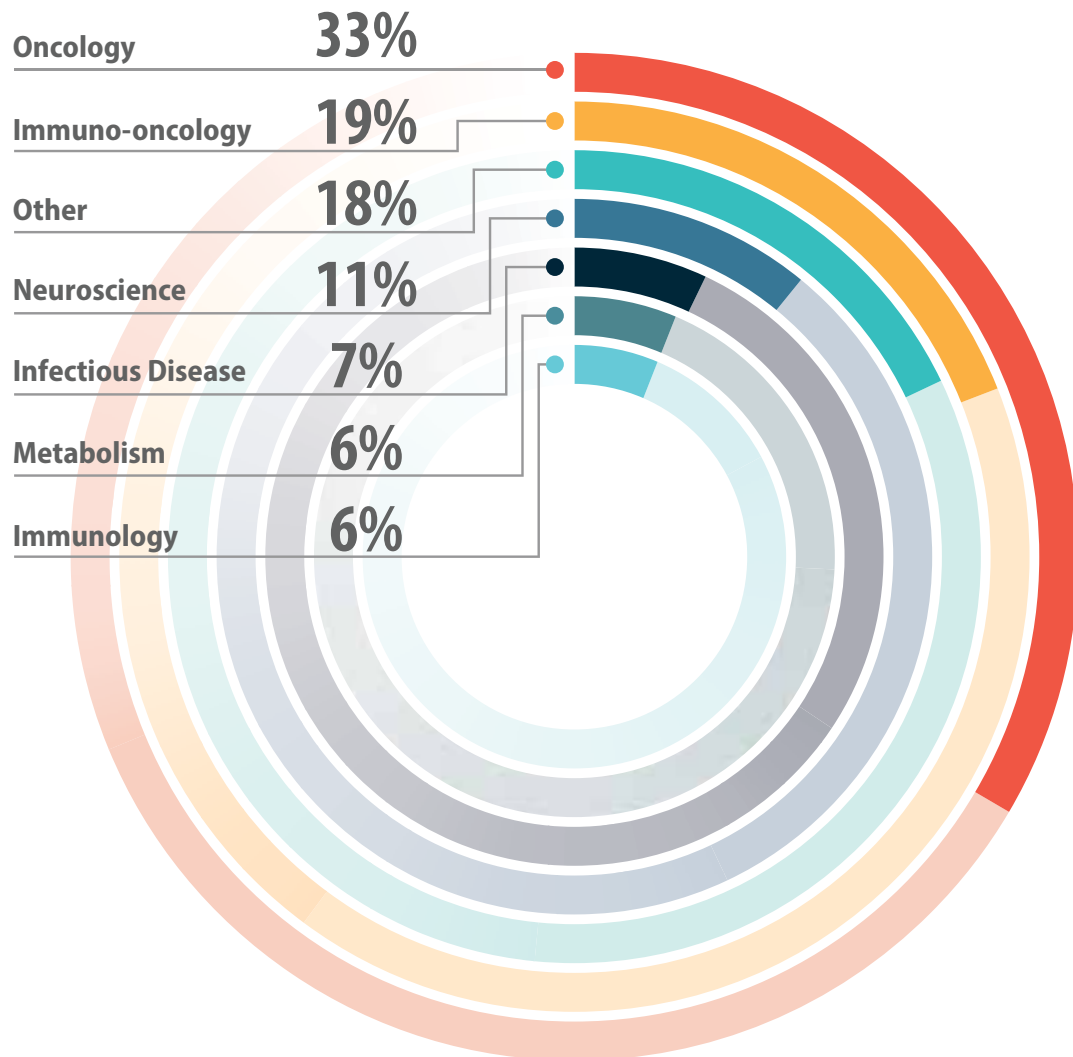


Cloud Services

Learn more about our Cloud Services team on our [website](https://indicalab.com/cloud-services/):



1,600+ Peer-Reviewed Publications Across Diverse Fields of Research



Contribute to the growing list of high-impact HALO publications

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.

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<https://indicalab.com>