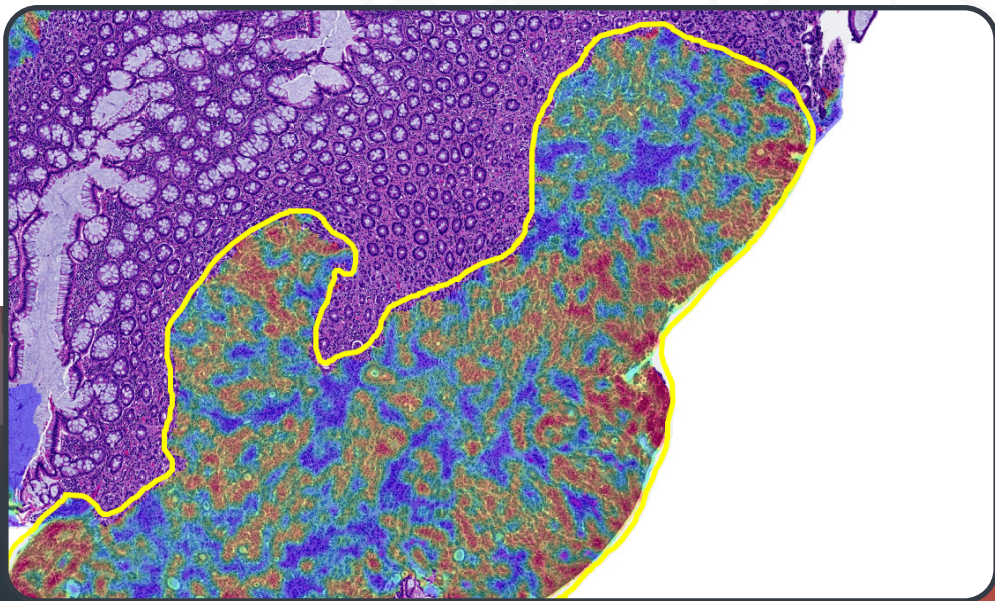


CRC MACRODISSECT AI

HALO Macrodissect Solutions

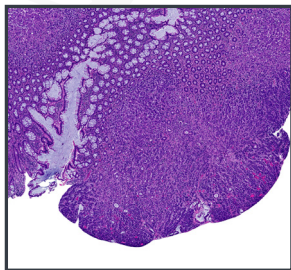


CRC Macrodissect AI harnesses the power of AI to quantify and visualize tumor content to improve reliability of downstream molecular testing in colorectal carcinoma.

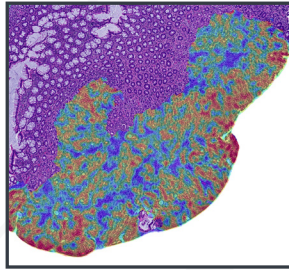
powered by **indica labs**

MACRODISSECTION REINVENTED

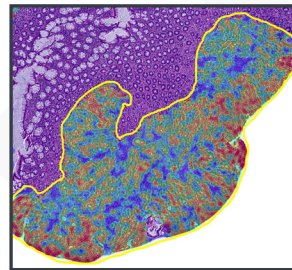
CRC Macrodissect AI is an AI-powered tool that quantifies tumor content and guides ROI selection to enhance macrodissection workflows and downstream molecular analysis in colorectal carcinoma.



H&E



Tumor Content Heatmap



Heatmap with Annotation

File Format Compatibility

- + Non-proprietary (JPG, TIF, OME, TIFF, DICOM [DCM*])
- + Leica (SVS, AFI, SCN, LIF)
- + Hamamatsu (NDPI, NDPIS)
- + Philips (iSyntax, i2Syntax)
- + 3DHistech (MRXS)
- + Nikon (ND2)
- + Akoya (QTIFF, component TIFF)
- + Olympus / Evident (VSI)
- + Zeiss (CZI)
- + Ventana (BIF)
- + KFBIO (KFB, KBBF)

*whole slide images

Inputs

- + H&E whole slide images from primary and metastatic CRC resections, excisions, and/or core needle biopsies

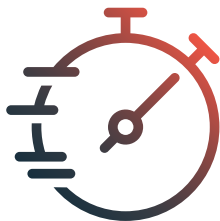
Key Output Metrics

- + Tumor density heatmap
- + Total cell count
- + Tumor cell count
- + Percent tumor content for whole slide image and ROIs



CONFIDENCE IN RESULTS

CRC Macrodissect AI reliably quantifies tumor content for downstream molecular analysis, ensuring the quality of downstream test results.



STREAMLINE WORKFLOWS AND SAVE RESOURCES

With automated tumor content analysis, you can streamline your ROI selection process and save time.



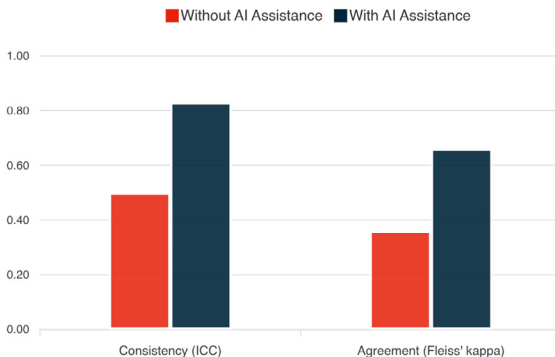
AUDITABLE PROCESS

Create an auditable macrodissection workflow, ensuring transparency, efficiency, and accuracy of molecular test results.

Experiment: CRC Macrodissect AI was validated on the Leica Aperio GT 450 (SVS format). 280 externally sourced primary and metastatic colorectal cancer H&E images previously unseen by the algorithm were assessed for tumor content by five pathologists. After a four-week washout period, the five pathologists reviewed the same slides again, this time with the assistance of CRC Macrodissect AI. They had the option to agree with the algorithm's analysis or provide their own tumor content estimations.

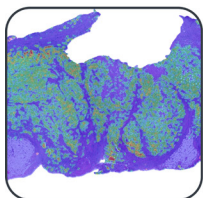
The intraclass correlation coefficient (ICC) was calculated using continuous tumor content data and Fleiss' kappa was calculated after samples were dichotomized based on a 20% tumor content cut-off, a minimum requirement for most molecular tests. Both ICC and Fleiss' kappa were measured before and after assistance from CRC Macrodissect AI.

Inter-Pathologist Agreement of Tumor Content Estimation With and Without CRC Macrodissect AI

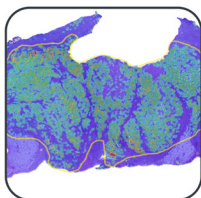


Results: CRC Macrodissect AI significantly increased the consistency and agreement of inter-pathologist tumor content reporting, demonstrating the algorithm's ability to accurately quantify tumor content, standardize macrodissection workflows, and reduce the number of inadequately concentrated tests sent for downstream analysis.

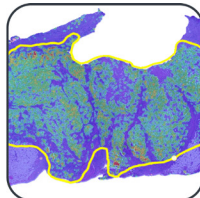
A FULLY-AUTOMATED CRC MACRODISSECT AI WORKFLOW



CRC Macrodissect AI analyzes tumor content



Pathologist annotates regions of tumor



Annotations are modified for macrodissection platform



Automated tissue macrodissection

CRC Macrodissect AI can be coupled with the Tisector automated macrodissection platform from our partner Xyall, for all-in-one solution that is auditable, precise, and more efficient.

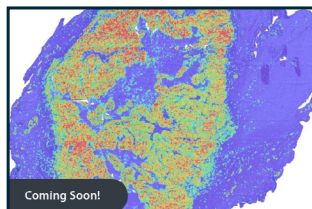
HALO Macrodissection Solutions

Lung Macrodissect AI

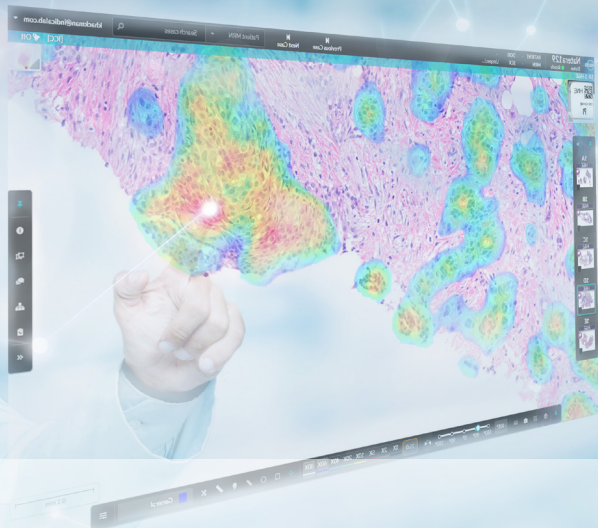


Reliable tumor content analysis for non-small cell lung cancer specimens.

Breast Macrodissect AI



Reliable tumor content analysis for breast carcinoma specimens.



Ready to learn more?

Contact us to schedule a demo of CRC Macrodissect AI and HALO AP®.

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