

# Result Report

Not for Diagnostic Purposes - RESEARCH USE ONLY

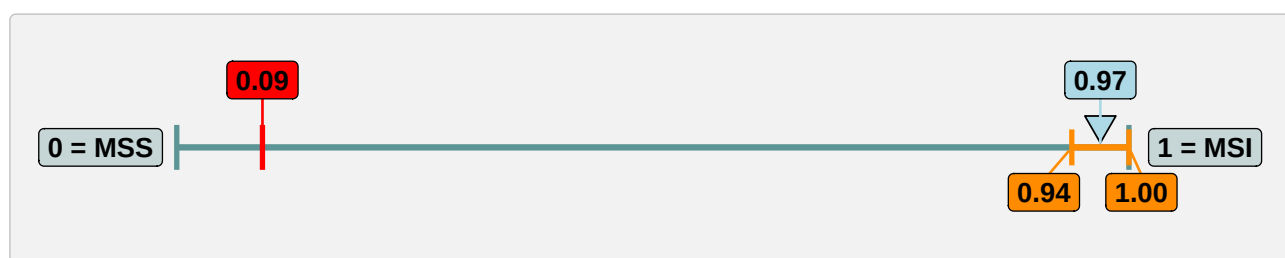
Slide-ID: 37  
Filename: col\_67\_7.tiff  
Date of Analysis: 2025-08-14  
Software Version: 0.5.5

## RESULT

Tumor is most likely MSI

## Reading the Result

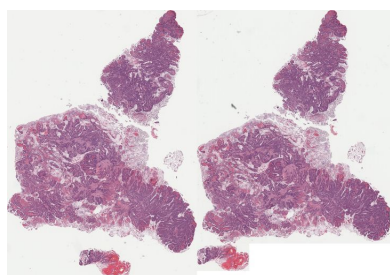
Given the tissue composition, the analysis resulted in a MSI score 0.97 (scale: 0 = *clearly MSS* to 1 = *clearly MSI*) with a confidence range from 0.94 to 1.0. The score is above the threshold of 0.09 and therefore the analyzed tissue is considered to be **MSI**.



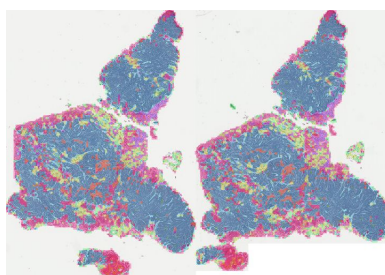
## Prediction Status

Model outputs are consistent – no contradicting results.

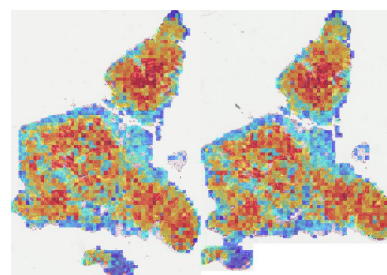
## Slide Interpretation



Original Image



Segmentation Overlay

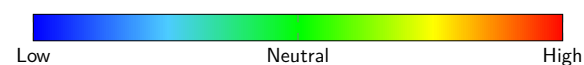


Attention Map

### Segmentation Classes



### Attention Level



## About SatSightDx

PAICON SatSightDx is an analysis tool utilizing machine learning on histology slides of H&E stained colorectal tumor specimen to distinguish between microsatellite stable (MSS) and microsatellite instable (MSI) tumors. It is designed to aid doctors in making faster treatment decisions by providing detailed insights into tumor status. The primary objective of SatSightDx is to expedite the diagnostic process and enhance treatment accuracy.

### MSI Score (torquoise blue triangle)

The MSI/MSS score represents the morphological features being relevant to classify a sample as either Microsatellite Instability (MSI) or Microsatellite Stability (MSS).

### Threshold (red vertical line)

To translate the score into categorical classes, SatSightDx applies a decision boundary. Scores falling below the defined threshold are categorized as MSS, while scores equal to or above the threshold are categorized as MSI.

### Confidence Interval (orange solid horizontal and vertical line)

SatSightDx provides a confidence interval to indicate the system's level of certainty in its classification. It is based on several prediction models, called an *ensemble*. The entirety of the ensemble decide on the final outcome. The confidence interval may be asymmetrical around the score. If the confidence interval includes the threshold, SatSightDx cannot provide a definitive classification with high confidence.

### Image Segmentation

SatSightDx is trained to identify and segment specific tissue types within H&E-stained colon specimens. Please note that tissue segmentation may include some degree of imprecision or occasional misclassification.

### Image Attention

SatSightDx highlights the areas of the tissue that were deemed most significant in the decision-making process, providing insight into which regions were critical for the final classification.