

Supplementary Information for the manuscript:

Automated Gleason grading of prostate cancer tissue microarrays via deep learning

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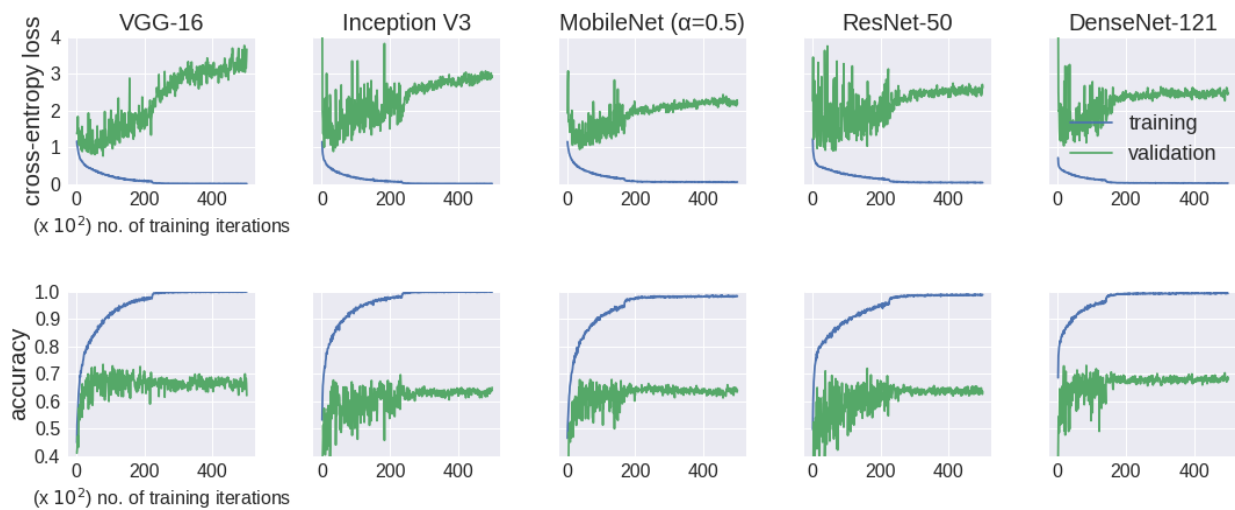
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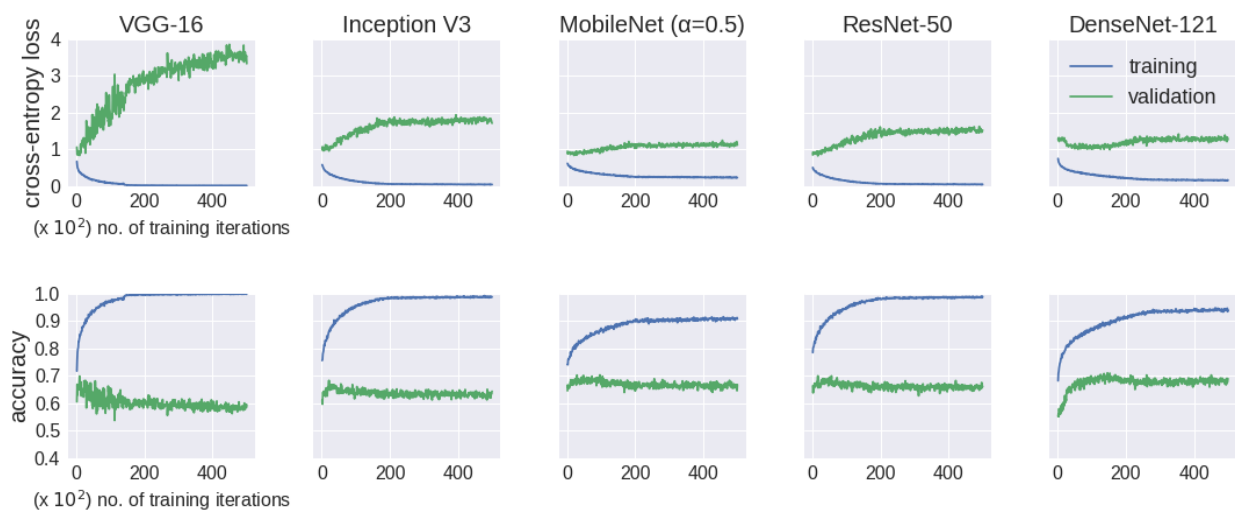
† Co-first authors

* Corresponding authors

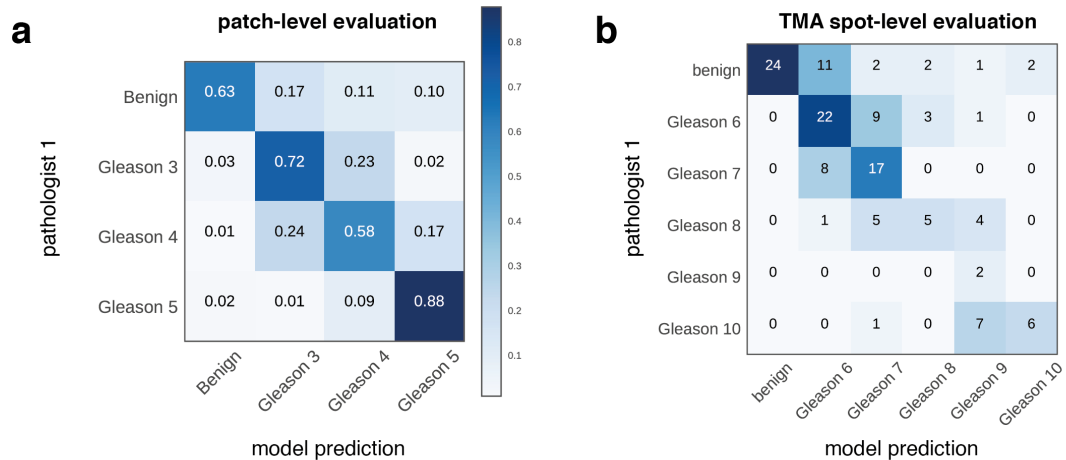
a



b



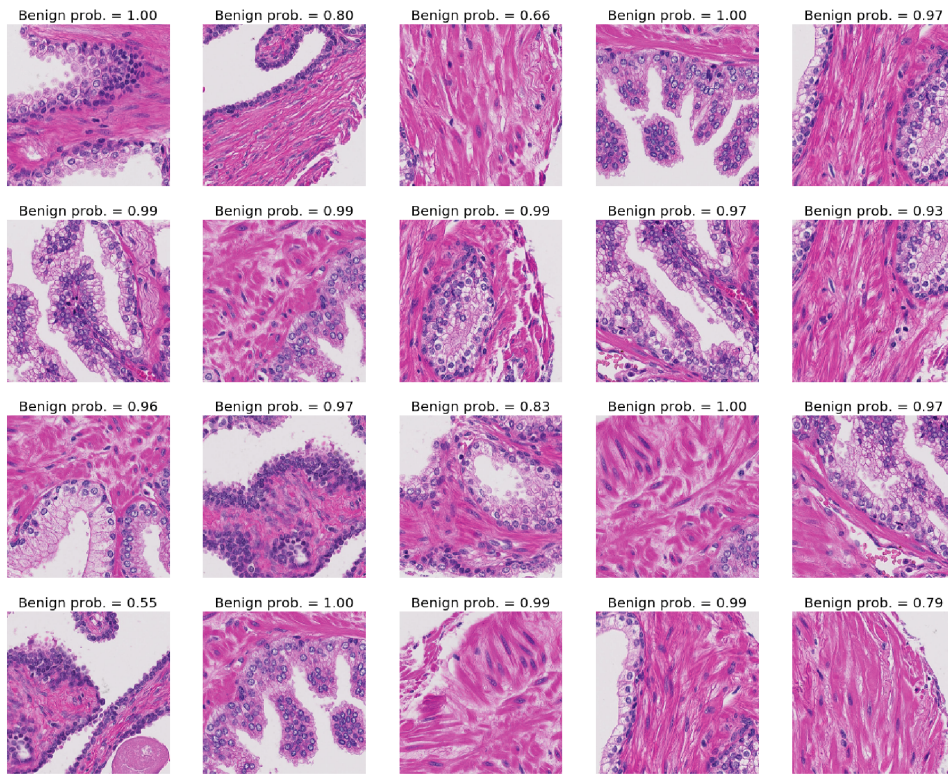
Supplementary Figure S1: Model selection benchmark. Cross-entropy loss and accuracy over training iterations for model variants **(a)** trained from scratch, and **(b)** initialized with ImageNet pre-trained weights. Training and validation mini-batches were balanced with respect to Gleason class labels.



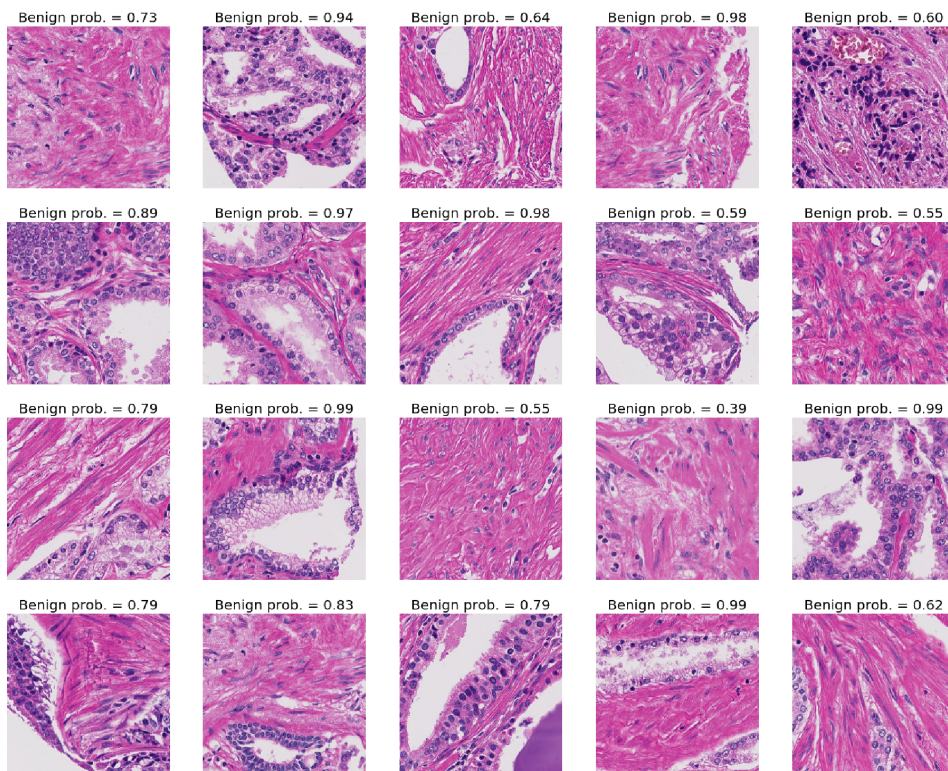
Supplementary Figure S2: Model evaluation on validation cohort. **(a)** Confusion matrix of patch-based model predictions versus pathologist annotations. The confusion matrix is normalized per row (ground truth label) reflecting the recall metric per class. **(b)** Gleason score model predictions for each TMA spot compared with Gleason score assignments by the pathologist. This confusion matrix is not normalized.

a

Model prediction: Benign, Pathologist annotation: Benign

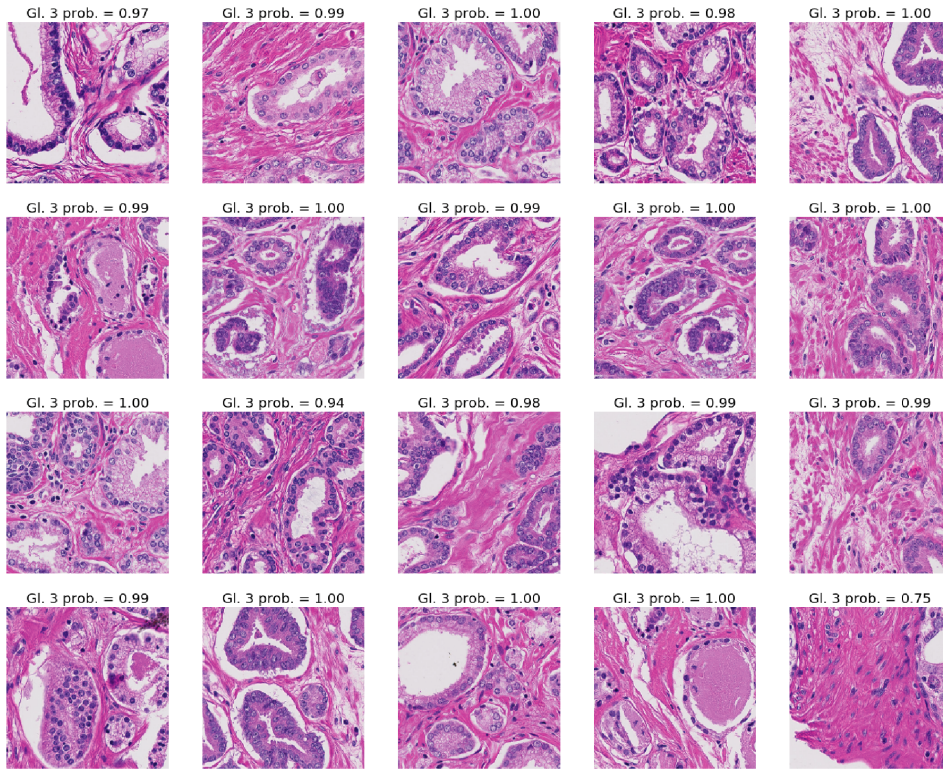


Model prediction: Benign, Pathologist annotation: not Benign

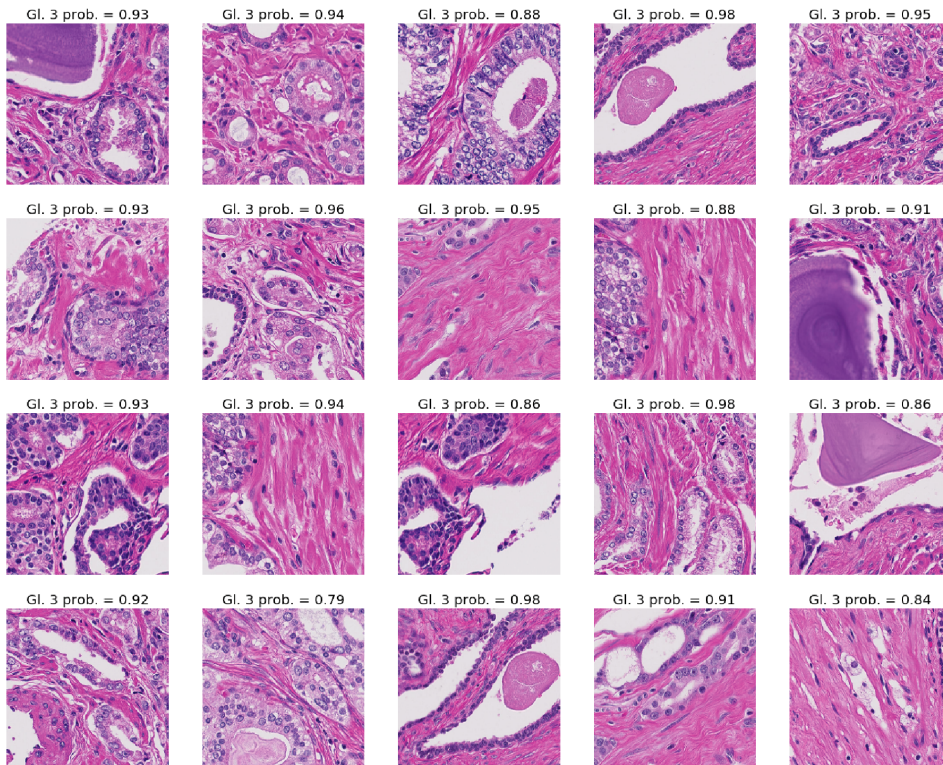


b

Model prediction: Gleason 3, Pathologist annotation: Gleason 3

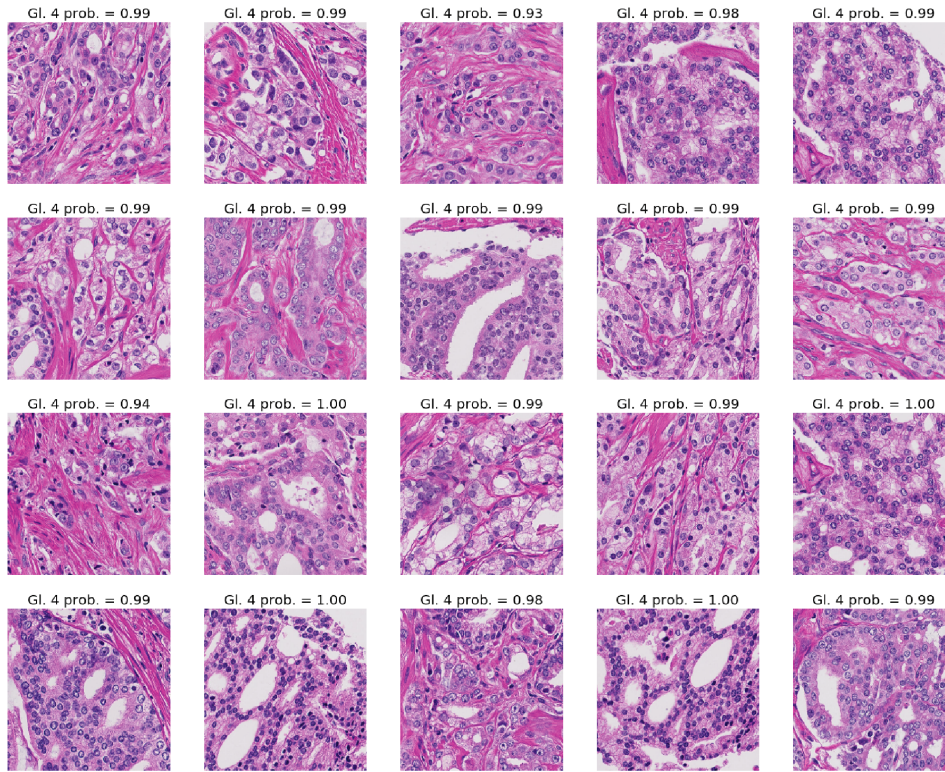


Model prediction: Gleason 3, Pathologist annotation: not Gleason 3

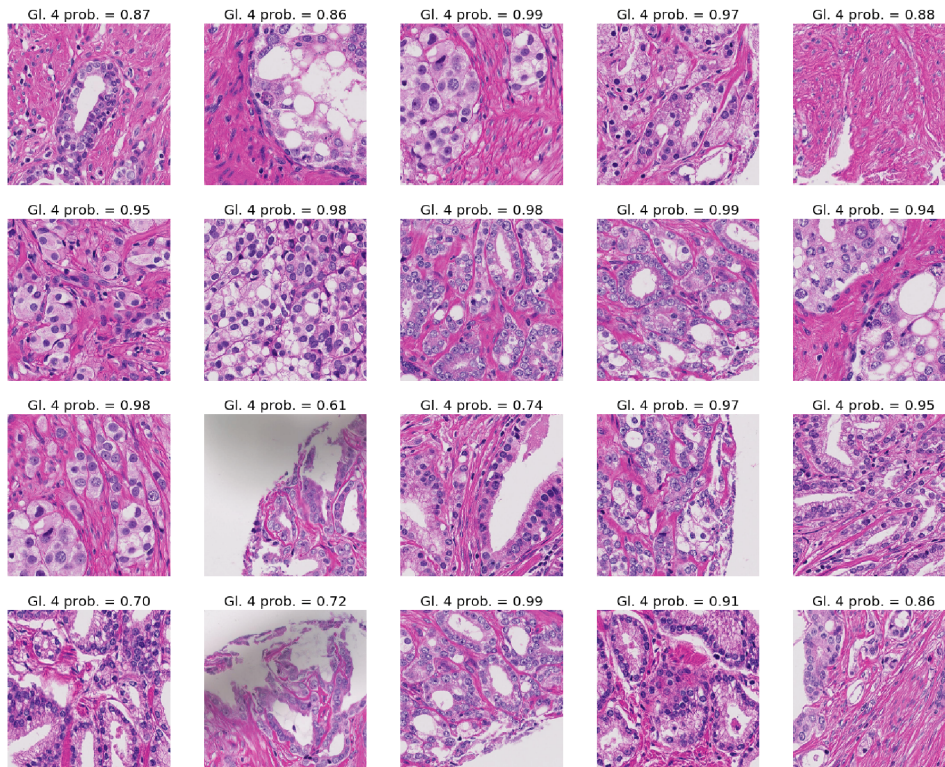


c

Model prediction: Gleason 4, Pathologist annotation: Gleason 4

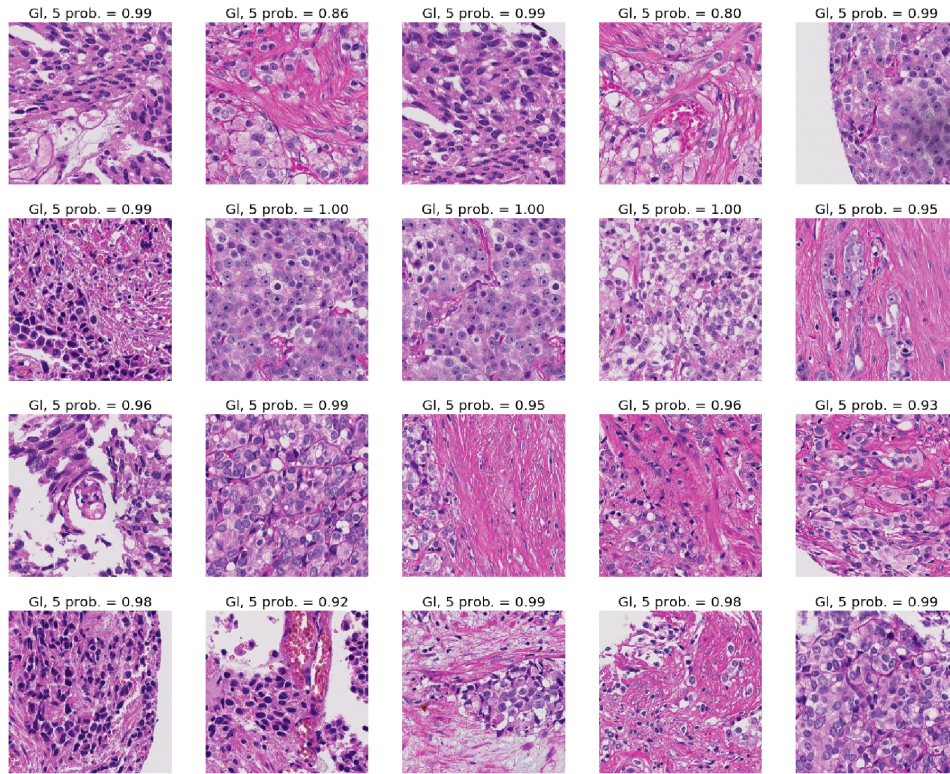


Model prediction: Gleason 4, Pathologist annotation: not Gleason 4

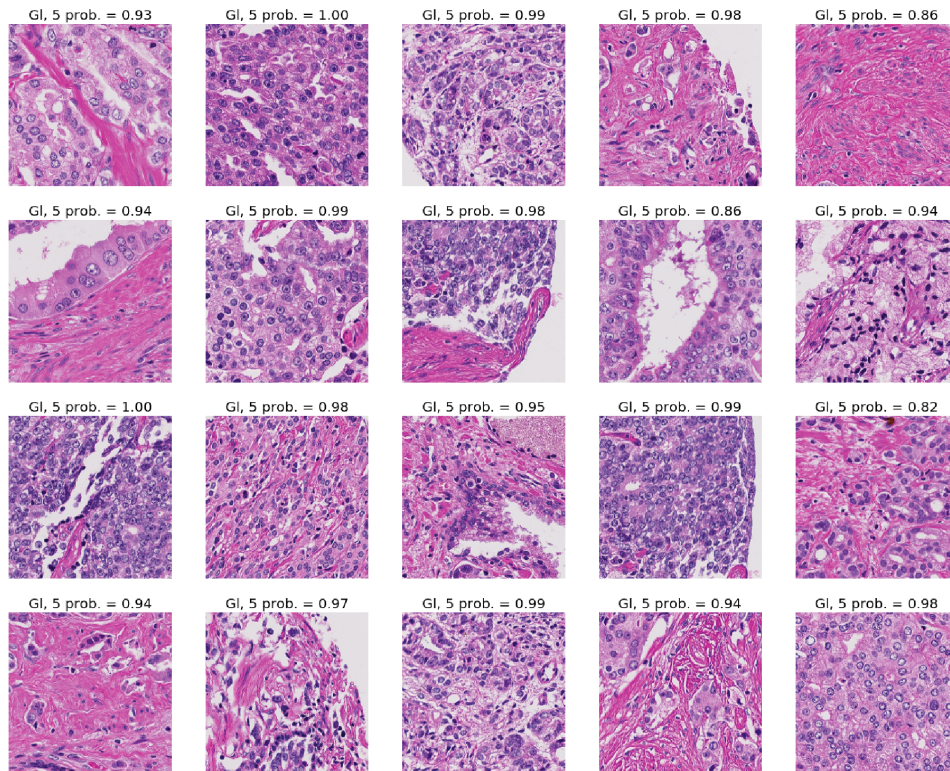


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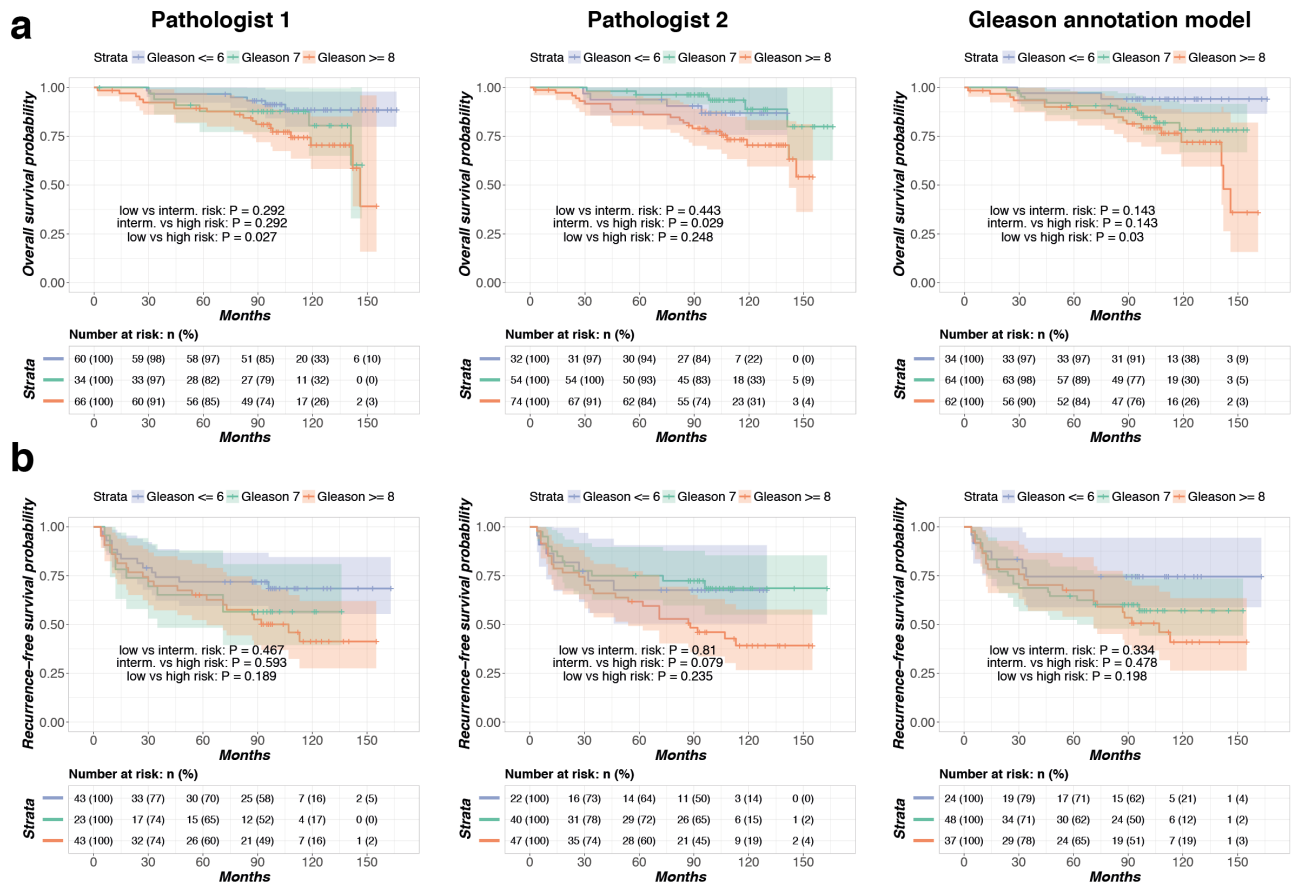
Model prediction: Gleason 5, Pathologist annotation: Gleason 5



Model prediction: Gleason 5, Pathologist annotation: not Gleason 5



Supplementary Figure S3: Comparison of misclassified versus correctly classified small tissue regions (image patches), corresponding to **Figure 2d**. Patches predicted by the model as **(a)** Benign, **(b)** Gleason 3, **(c)** Gleason 4, **(d)** Gleason 5. For each class, we show both example patches for which the model agrees with both pathologists and example patches for which the model does not agree with either pathologist. In all cases, 20 clusters of image patches were obtained via k-means and, from each cluster, the patch with highest predicted probability for the corresponding class was visualized.



Supplementary Figure S4: (a) Overall survival and (b) recurrence-free survival analysis results. Kaplan-Meier curves for patients who were split into three risk groups according to Gleason score annotations by the model and two pathologists. The shaded regions indicate 95% confidence bands. P-values for pairwise two-tailed logrank tests with Benjamini-Hochberg correction are reported.

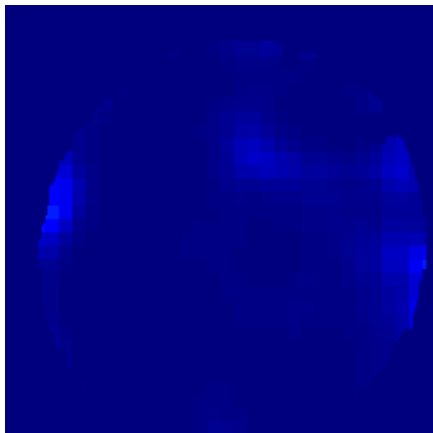
Supplementary Table S1: Univariate Cox proportional hazards regression results for patients who were split into three risk groups (Gleason ≤ 6 , Gleason 7, Gleason ≥ 8) according to Gleason score annotations by the model and two pathologists. Hazard ratios for 1-unit increase in the explanatory variable (risk group 1, 2 or 3) are reported.

	Overall survival		Disease-specific survival		Recurrence-free survival	
	Hazard Ratio (95% CI)	p-value	Hazard Ratio (95% CI)	p-value	Hazard Ratio (95% CI)	p-value
Model	2.063 (1.192-3.571)	0.0097	3.048 (1.319-7.042)	0.0091	1.441 (0.962-2.159)	0.0763
Pathologist 1	1.784 (1.145-2.781)	0.0106	2.164 (1.141-4.106)	0.0181	1.361 (0.976-1.899)	0.0694
Pathologist 2	1.831 (1.037-3.231)	0.0369	2.79 (1.150-6.770)	0.0233	1.508 (0.990-2.298)	0.0556

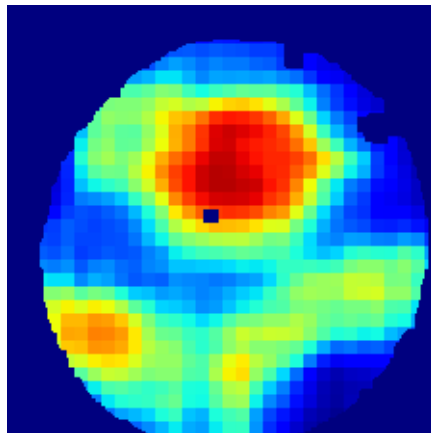
Supplementary Data

Model predictions as pixel-level probability maps and visual comparison with pathologist annotations for all TMA spots in the test cohort, corresponding to Figure 3. For each example, the subplots in the right-most column show the Gleason patterns assigned by the two pathologists (blue: Gleason 3 region, yellow: Gleason 4 region, red: Gleason 5 region). The other four subplots show the model's Gleason annotations.

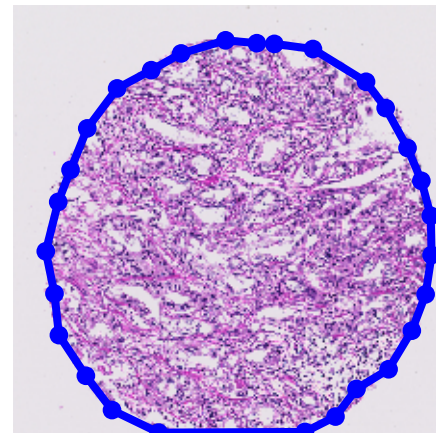
benign



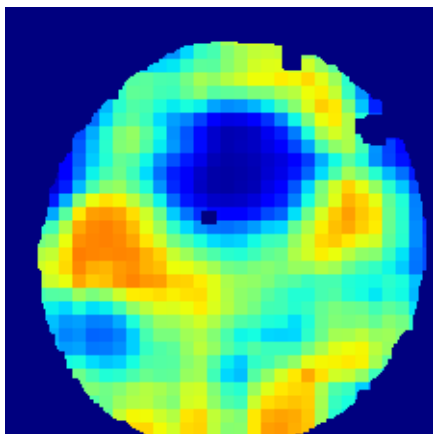
Gleason 3



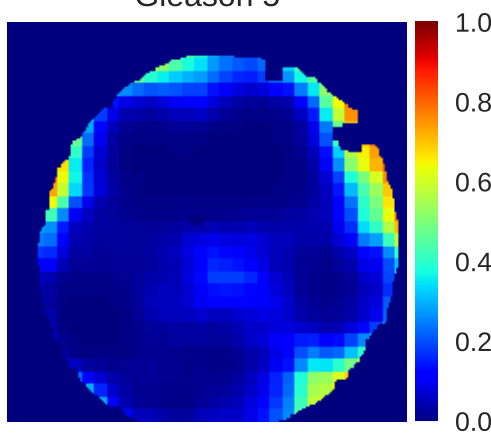
Pathologist 1



Gleason 4



Gleason 5



1.0

0.8

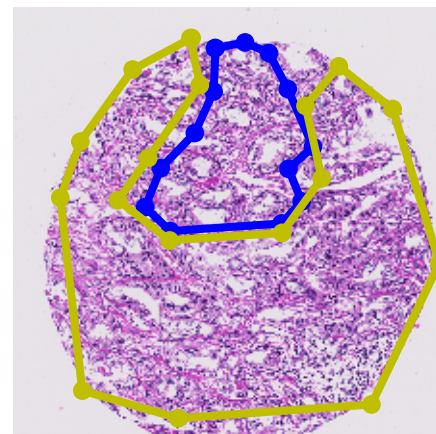
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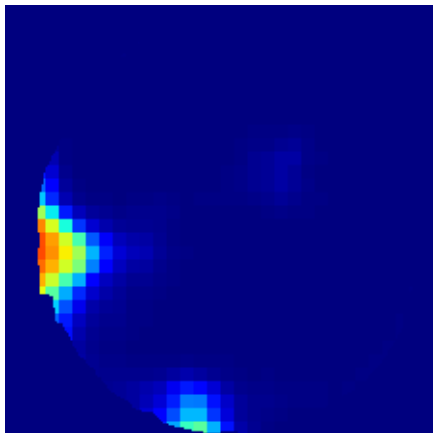
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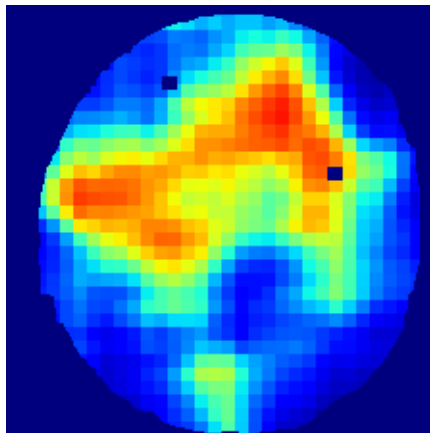
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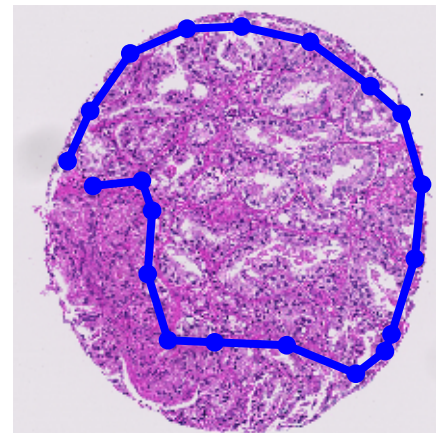
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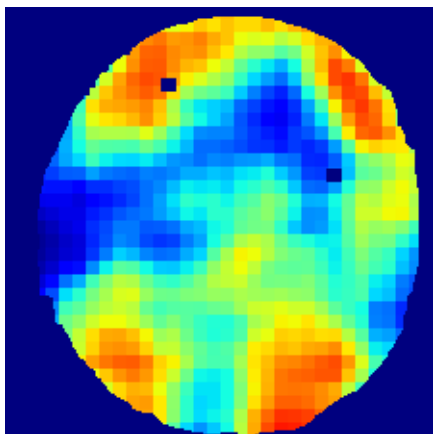
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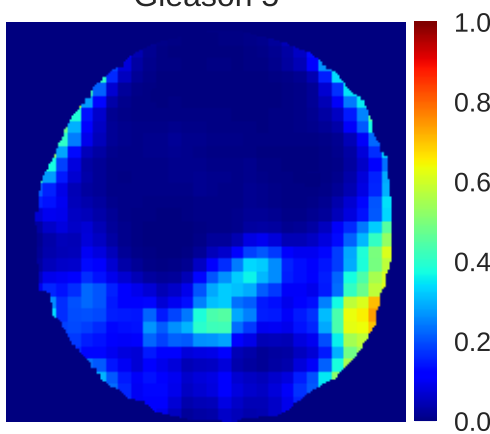
Pathologist 1



Gleason 4



Gleason 5



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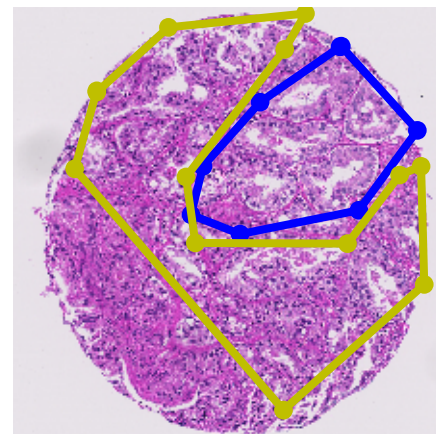
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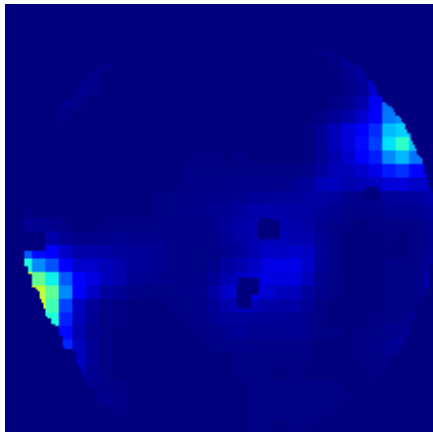
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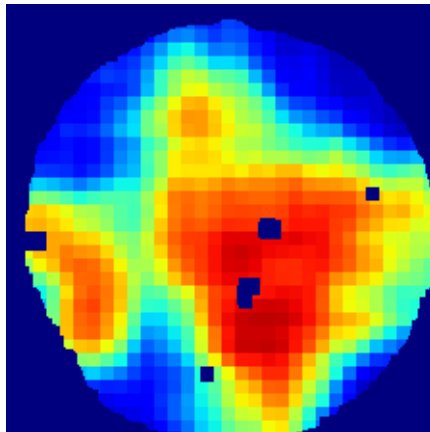
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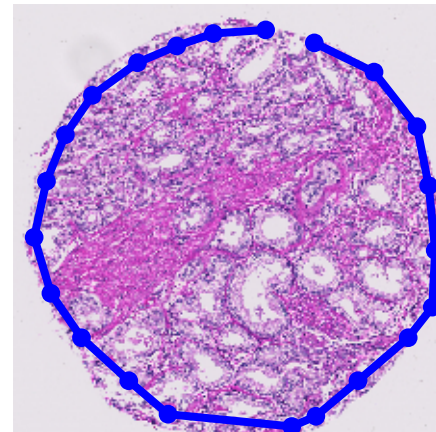
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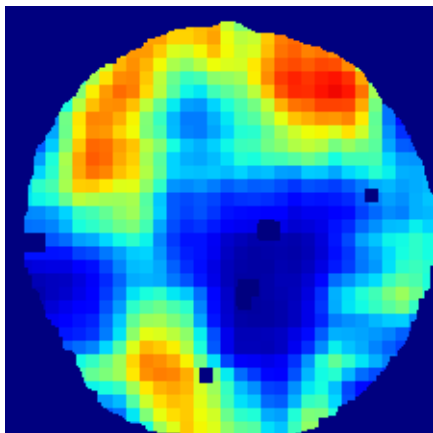
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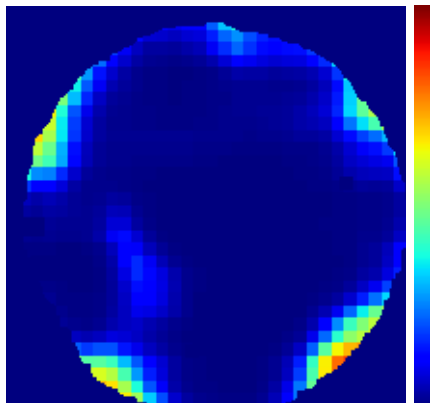
Pathologist 1



Gleason 4



Gleason 5



1.0

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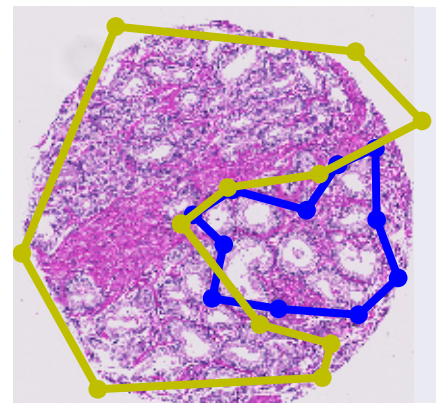
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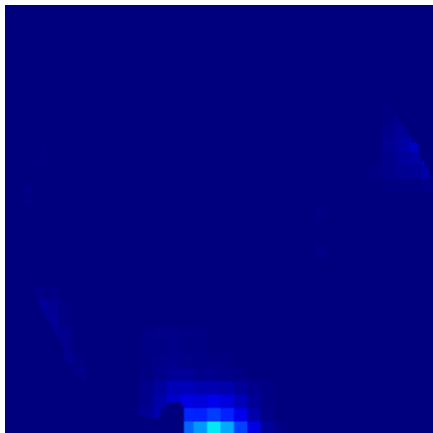
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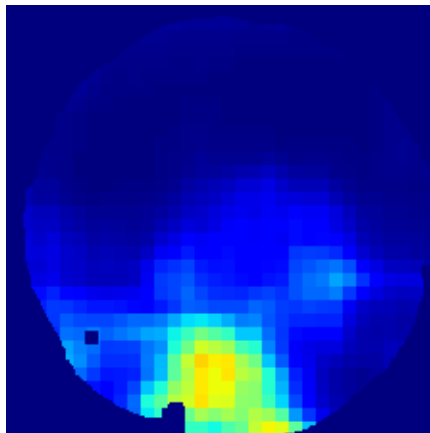
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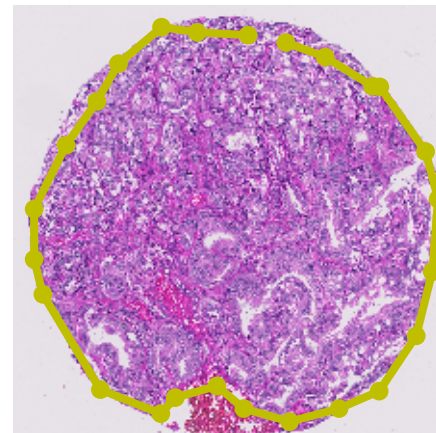
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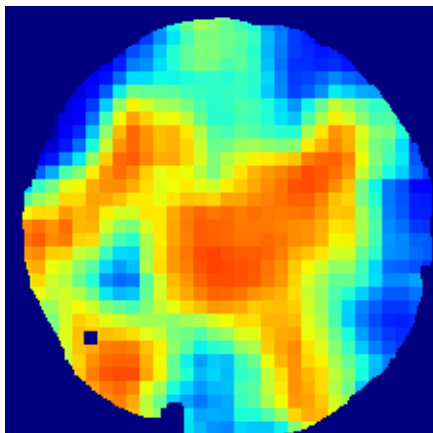
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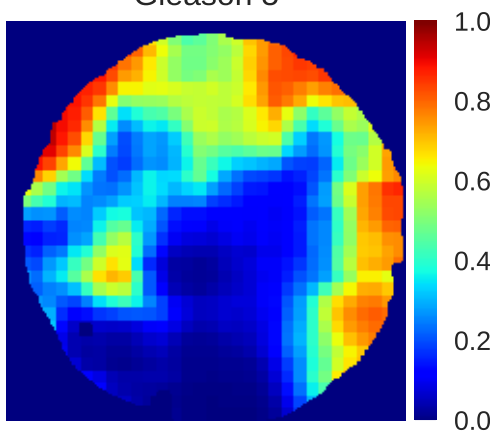
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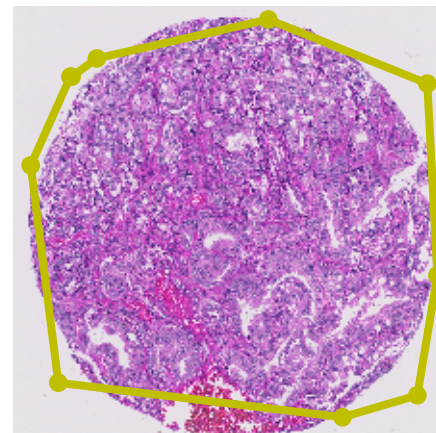
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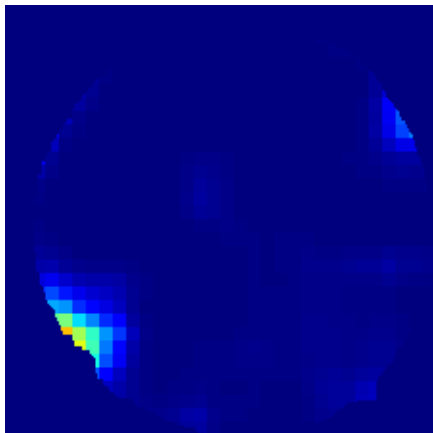
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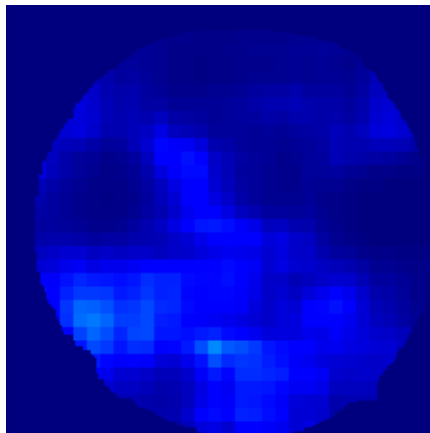
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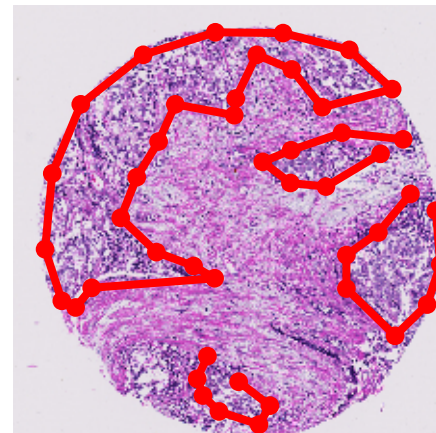
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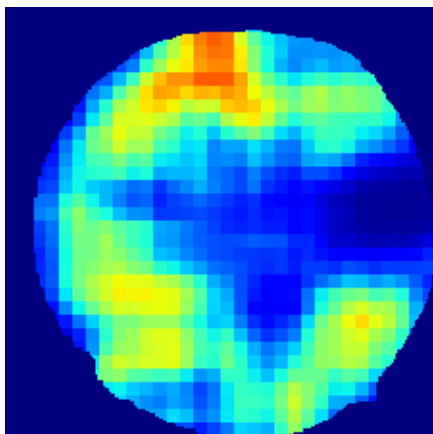
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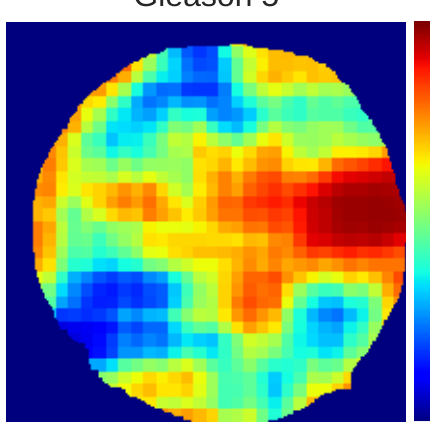
Pathologist 1



Gleason 4



Gleason 5



1.0

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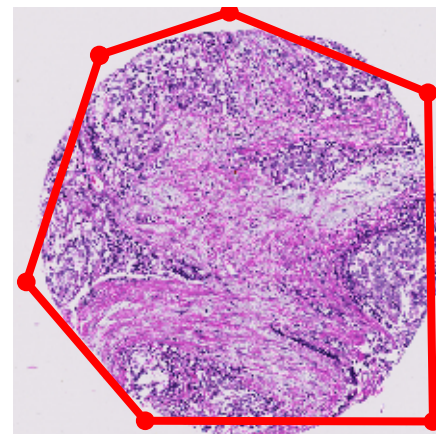
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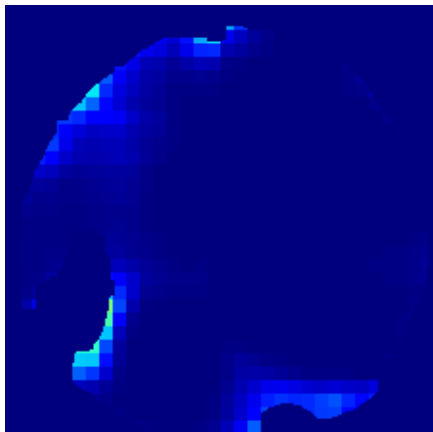
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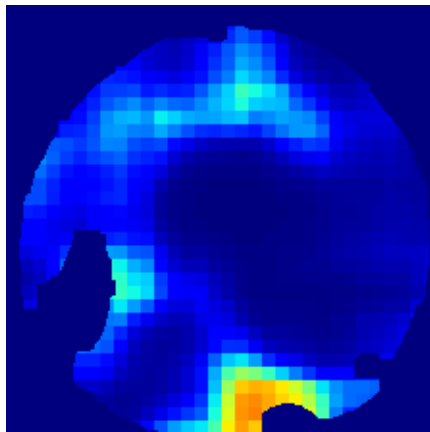
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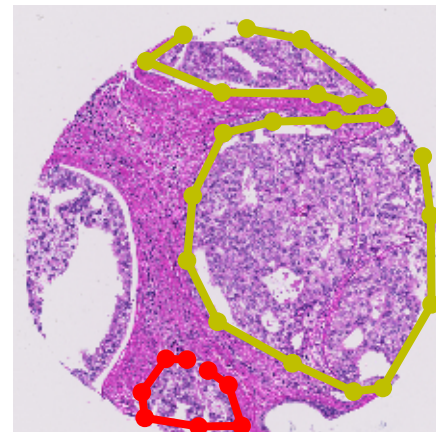
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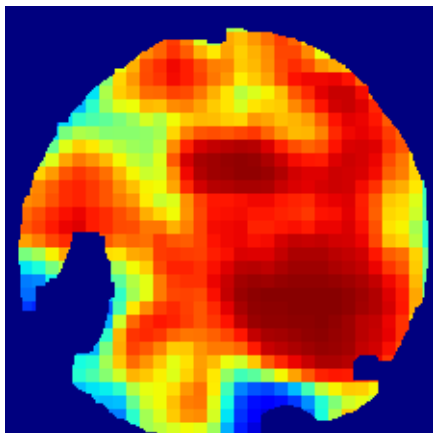
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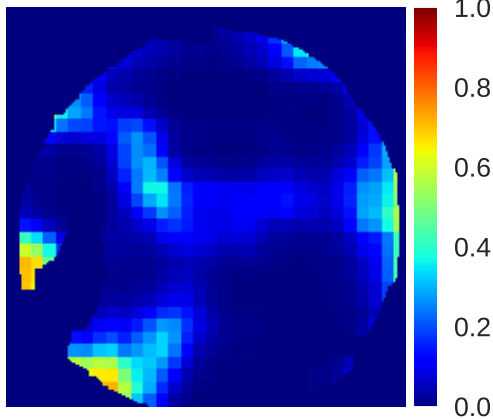
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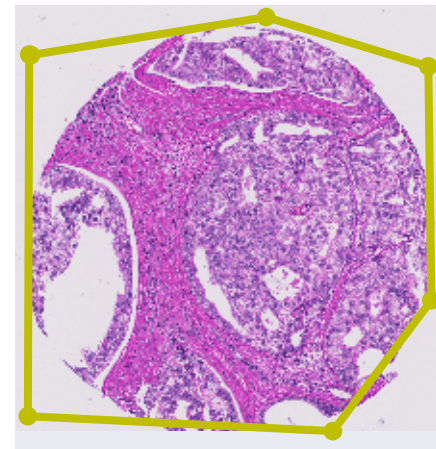
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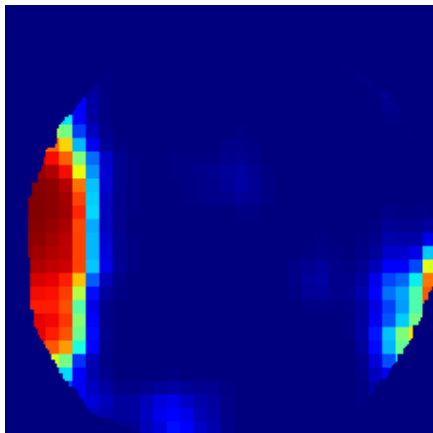
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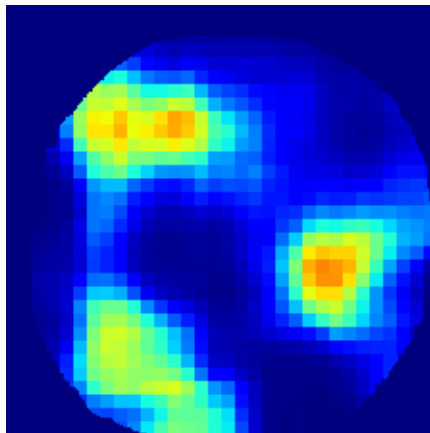
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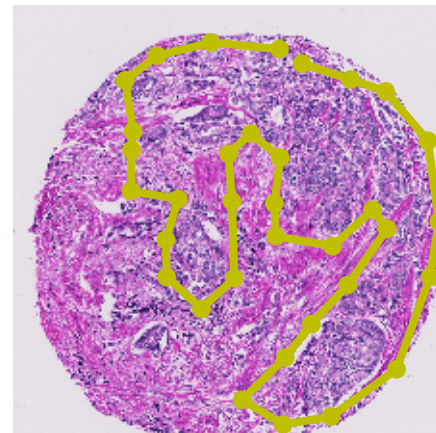
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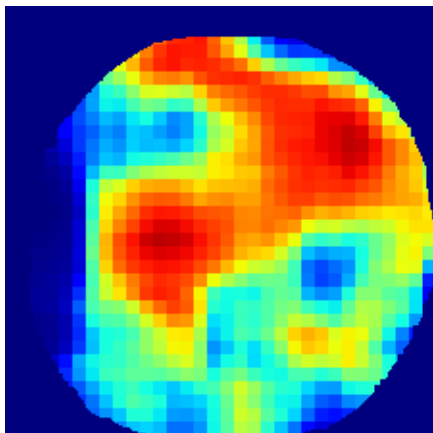
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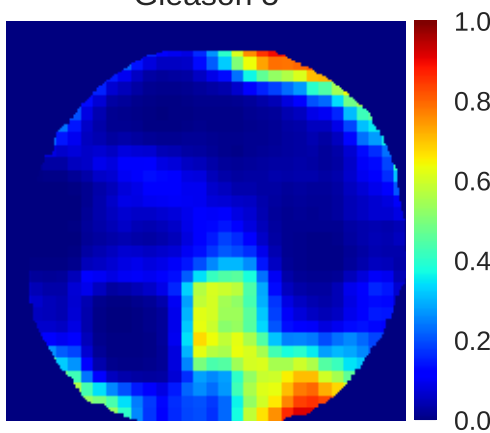
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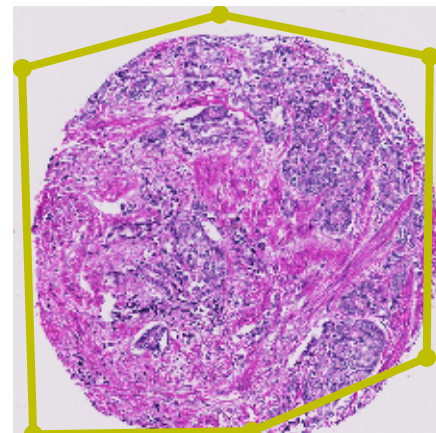
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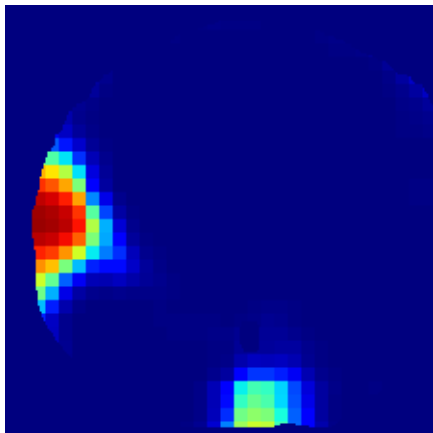
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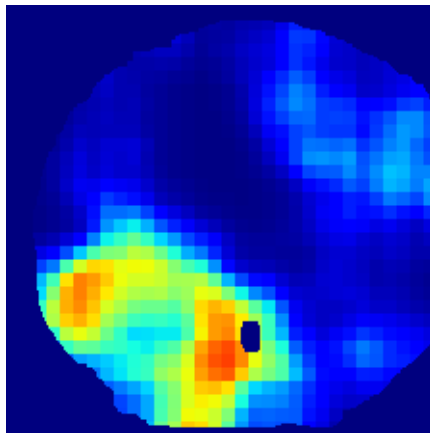
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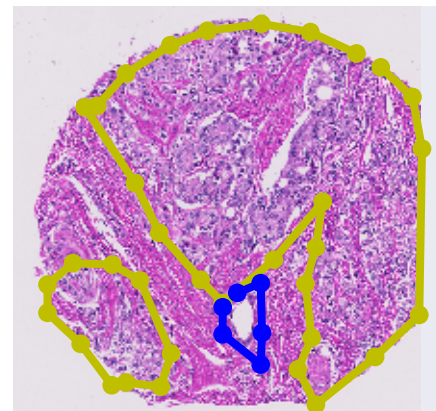
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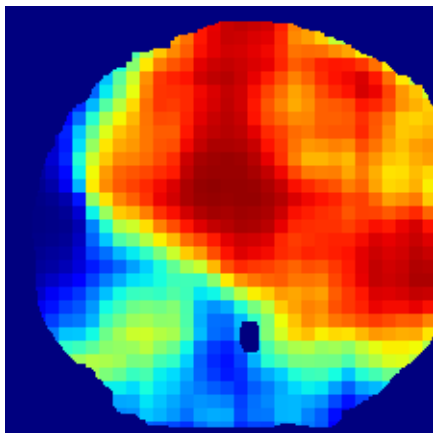
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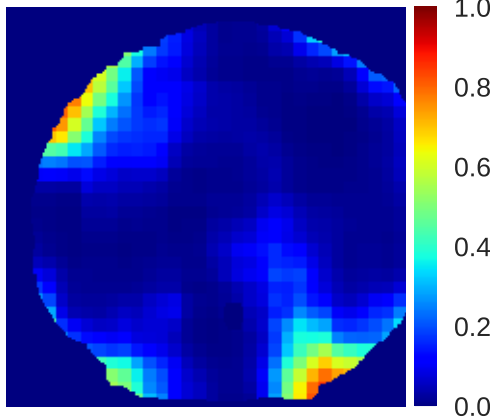
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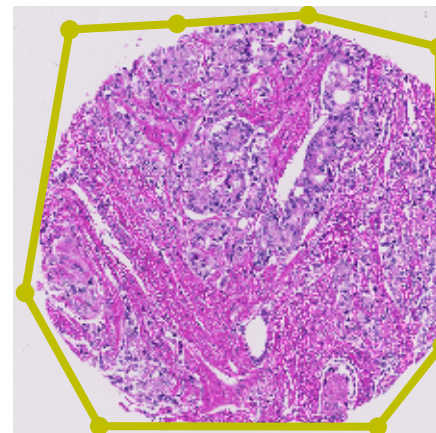
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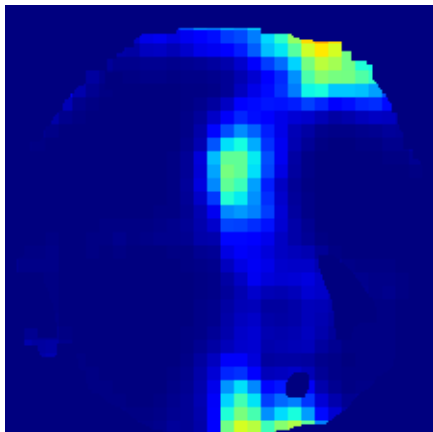
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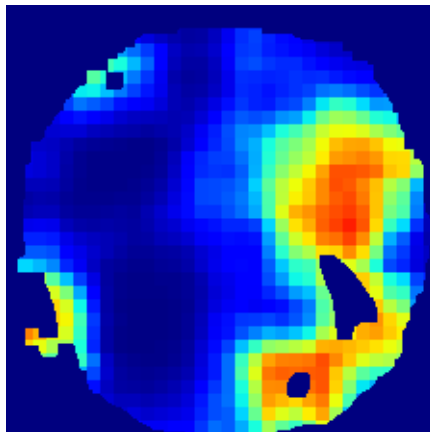
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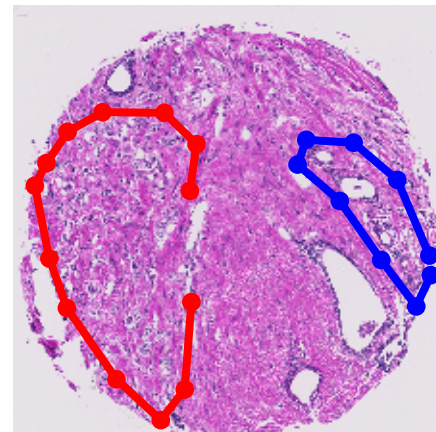
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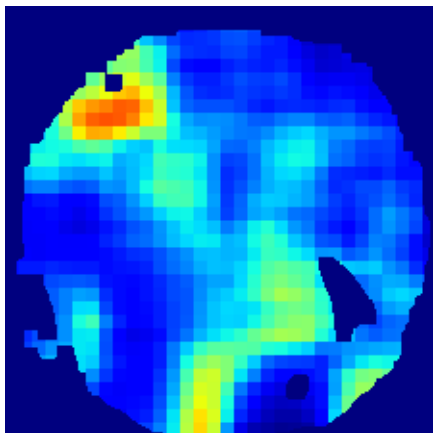
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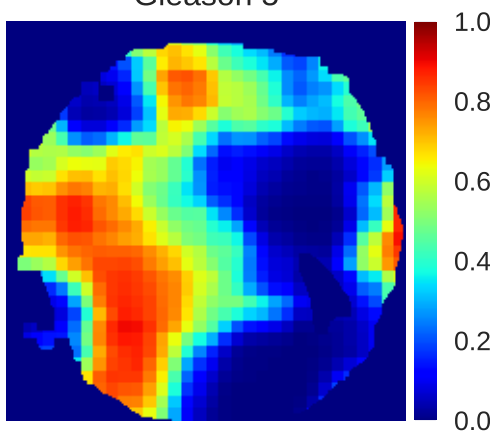
Pathologist 1



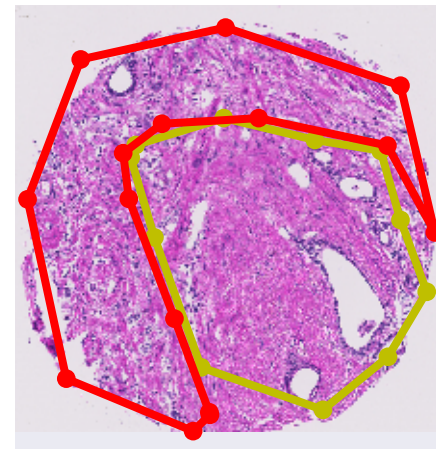
Gleason 4



Gleason 5



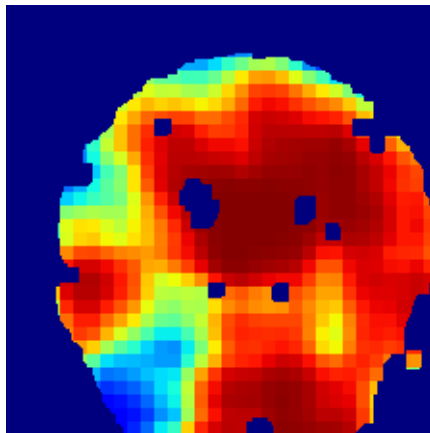
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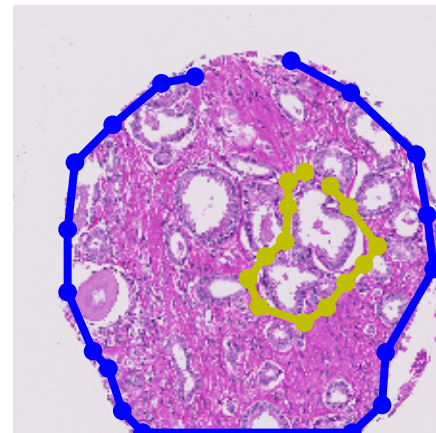
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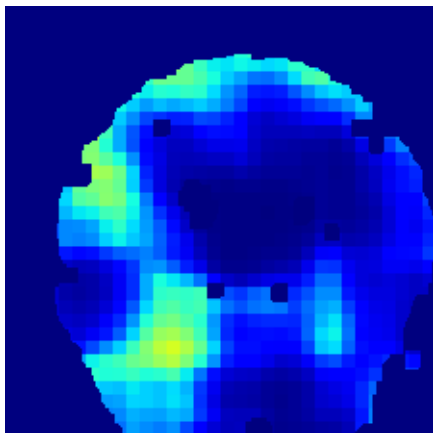
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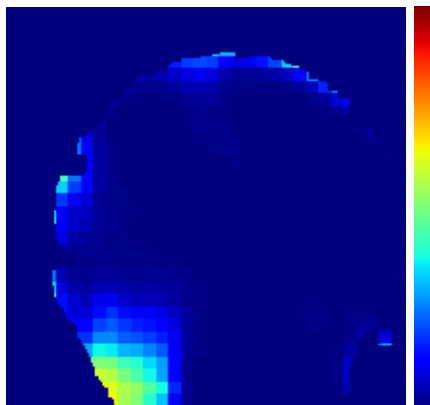
Pathologist 1



Gleason 4



Gleason 5



1.0

0.8

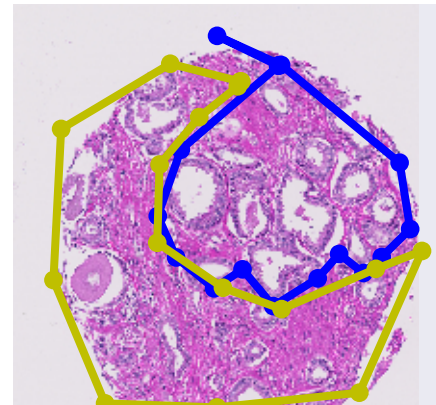
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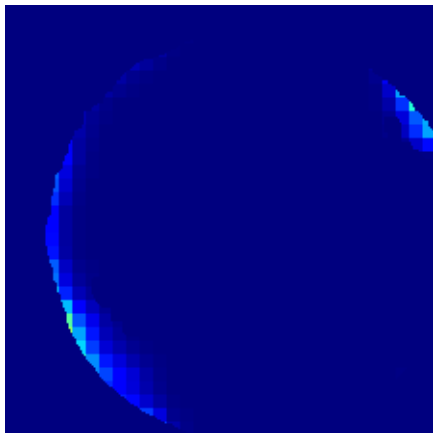
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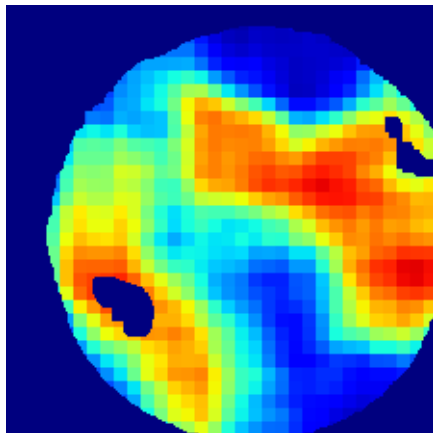
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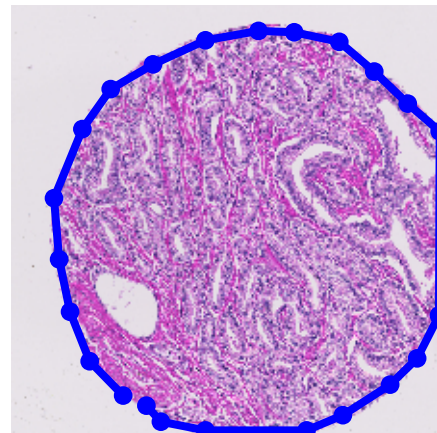
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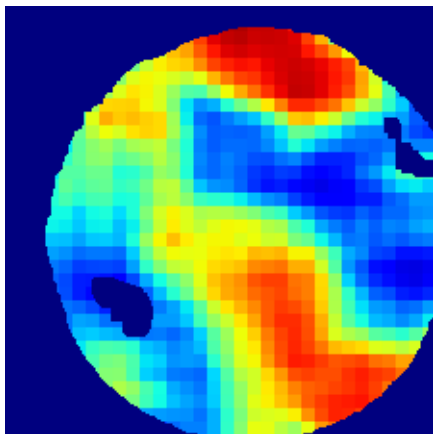
Gleason 3



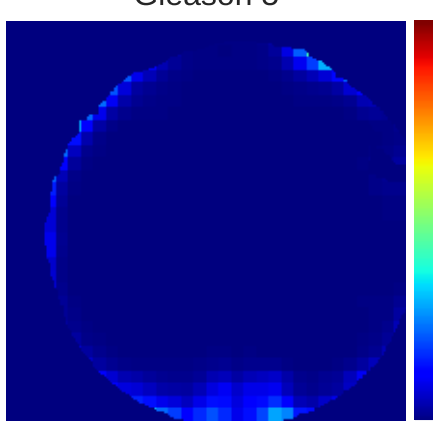
Pathologist 1



Gleason 4



Gleason 5



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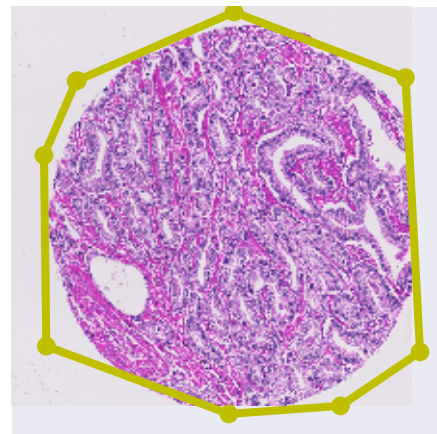
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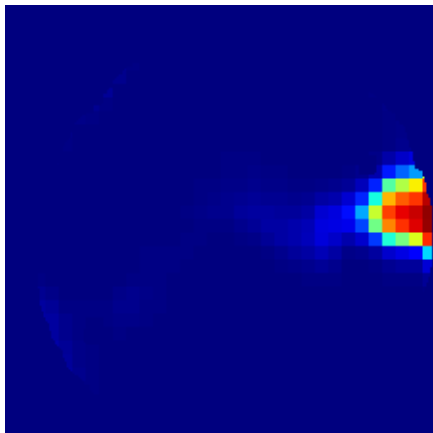
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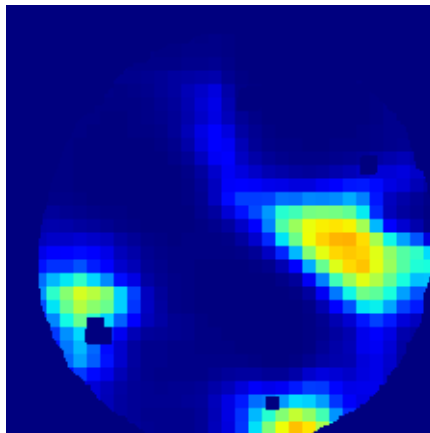
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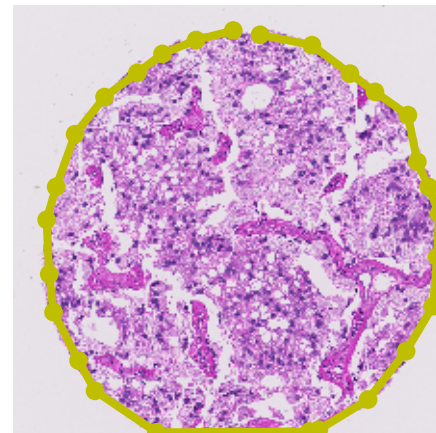
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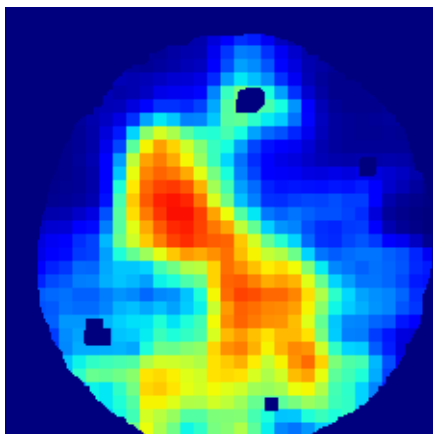
Gleason 3



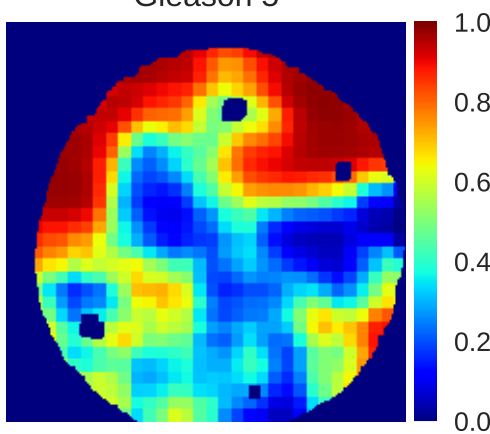
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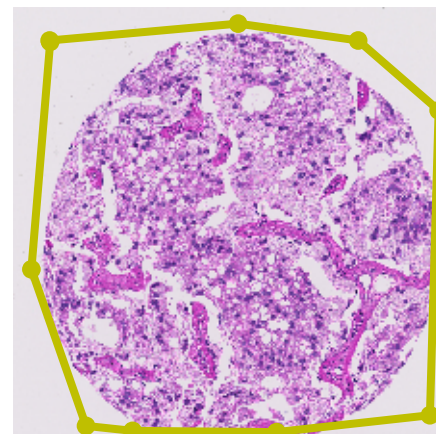
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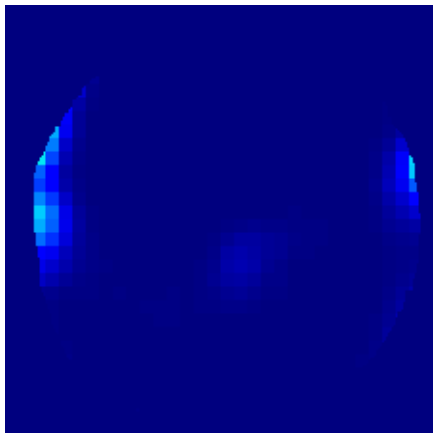
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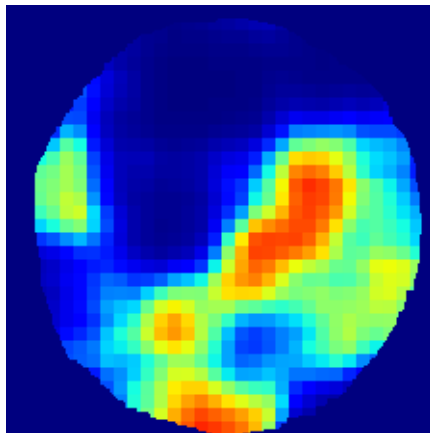
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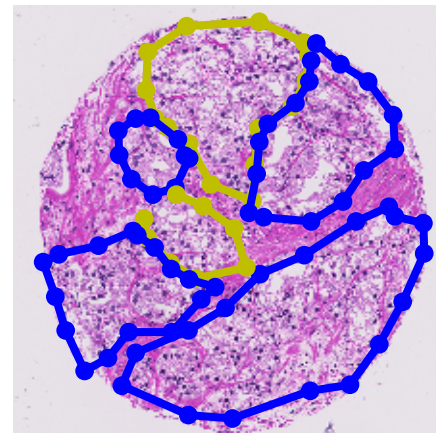
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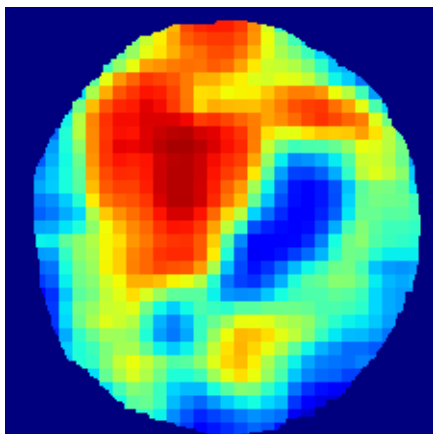
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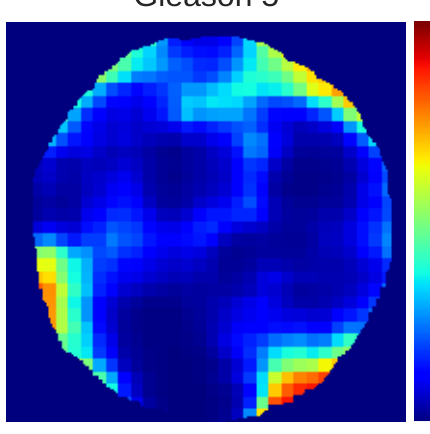
Pathologist 1



Gleason 4



Gleason 5



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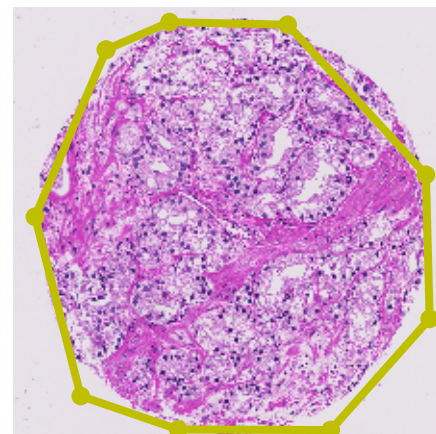
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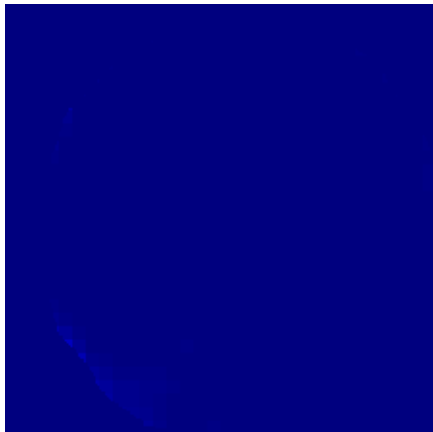
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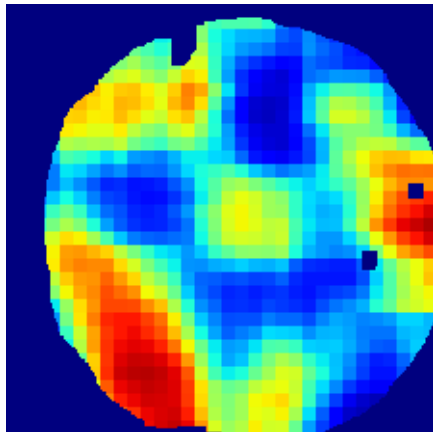
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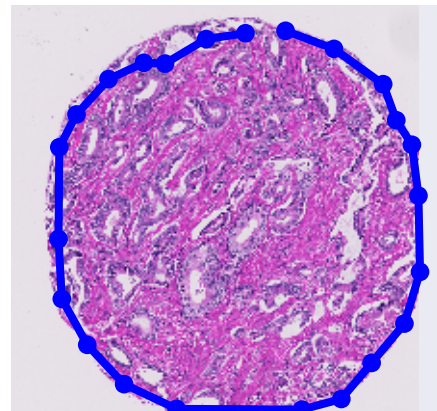
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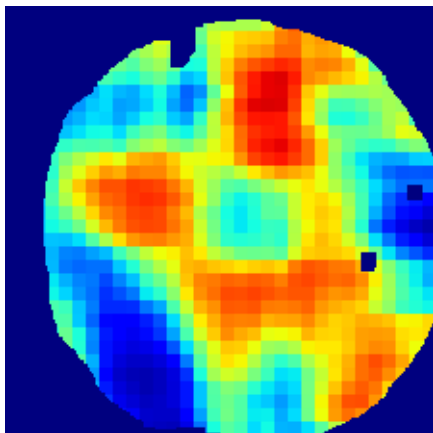
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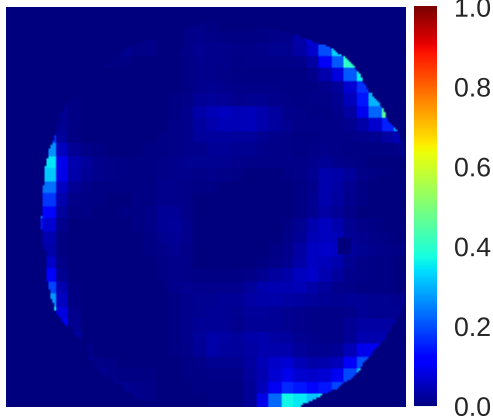
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Gleason 4



Gleason 5



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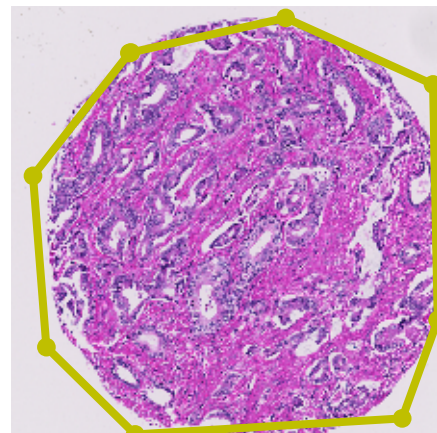
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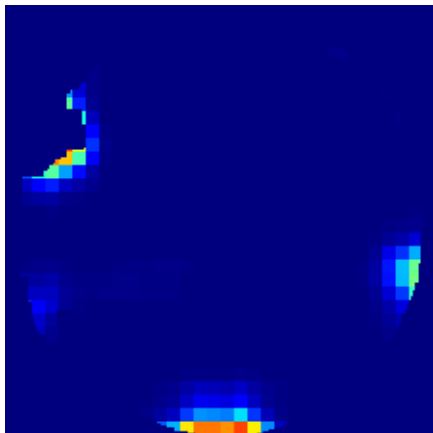
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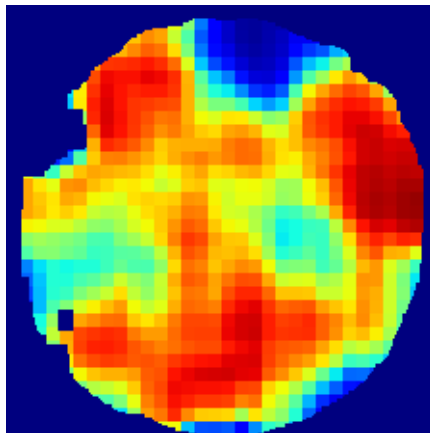
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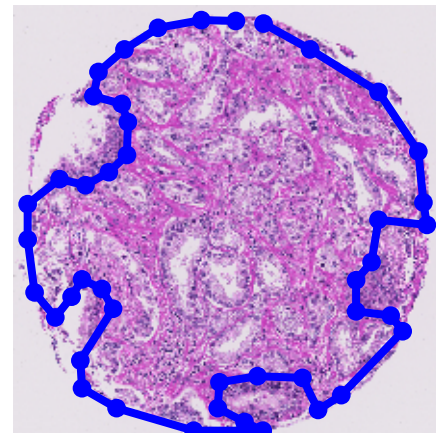
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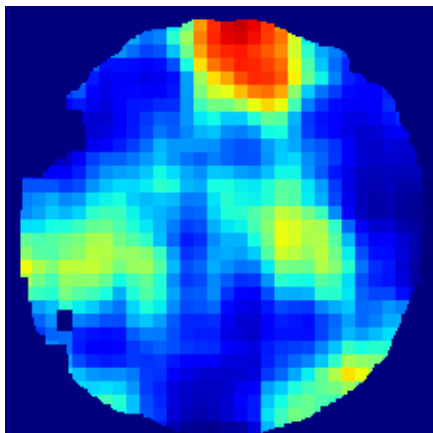
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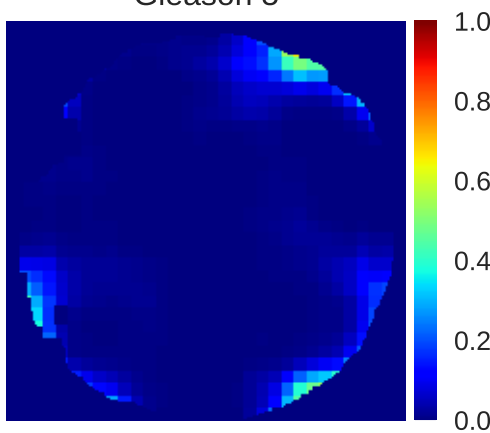
Pathologist 1



Gleason 4



Gleason 5



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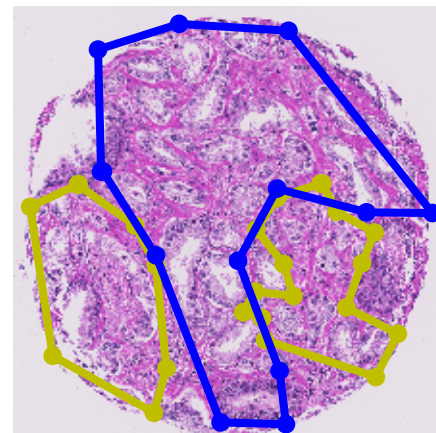
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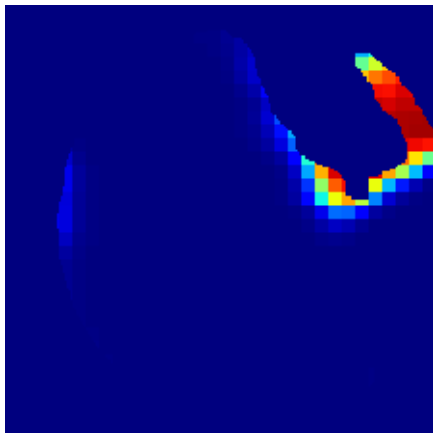
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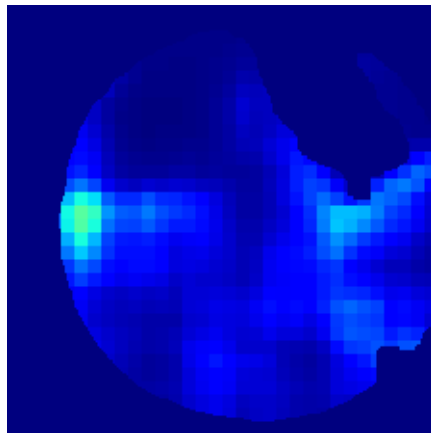
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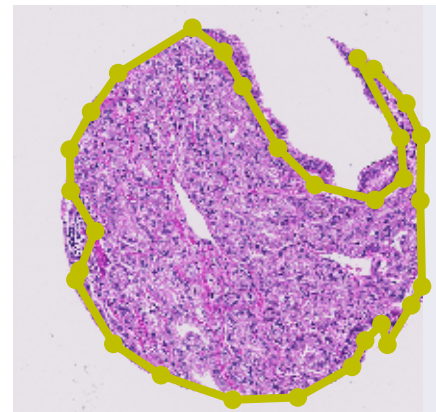
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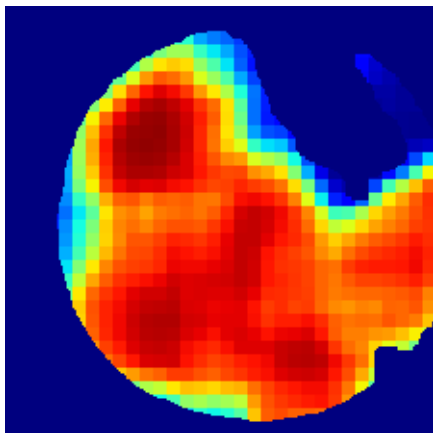
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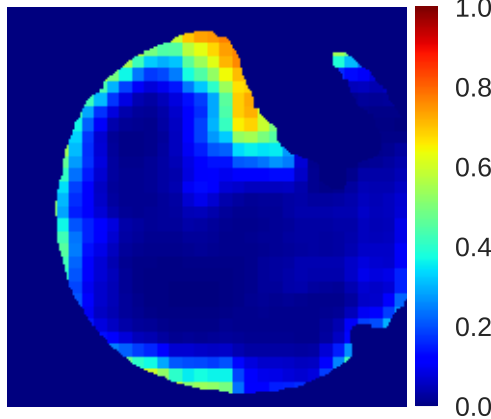
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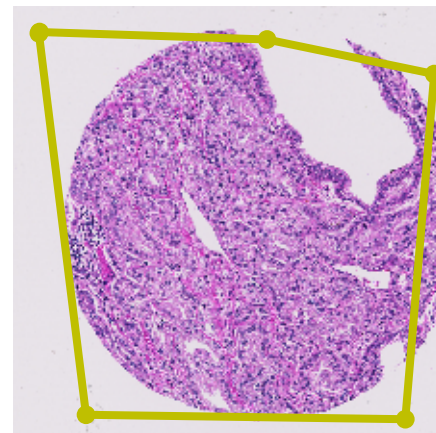
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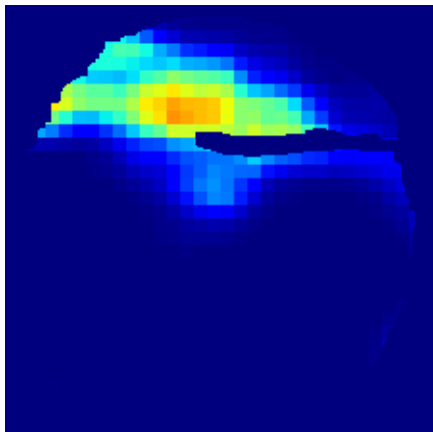
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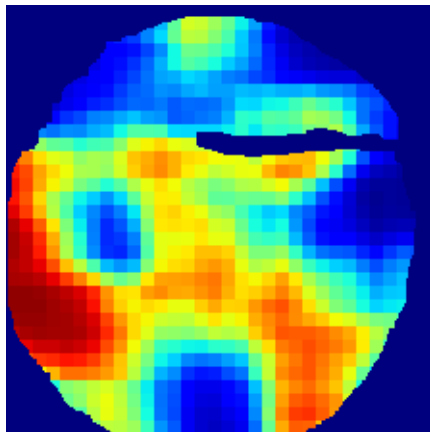
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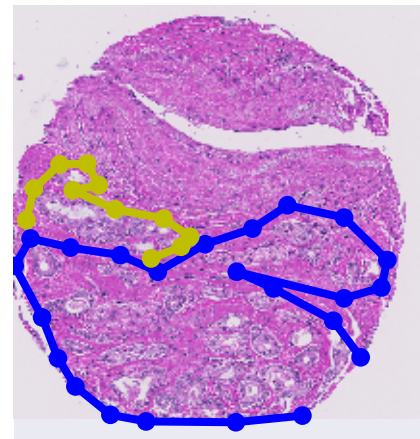
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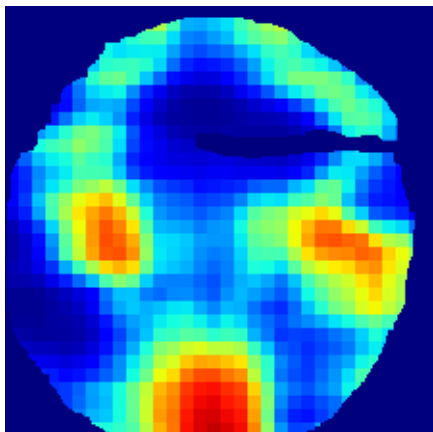
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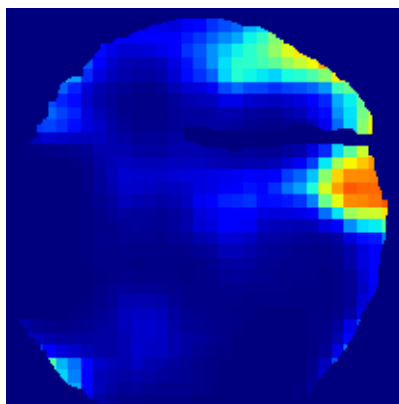
Pathologist 1



Gleason 4



Gleason 5



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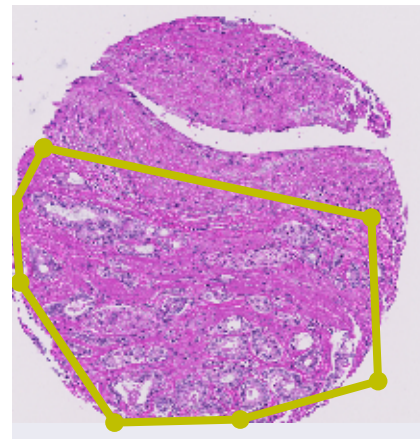
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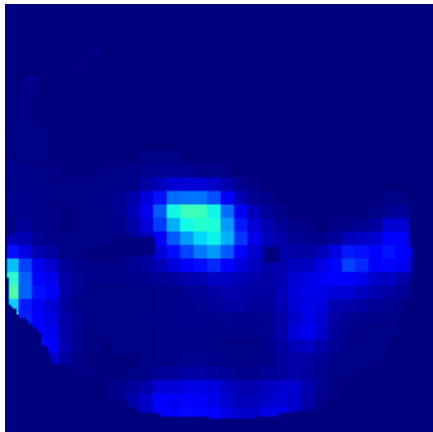
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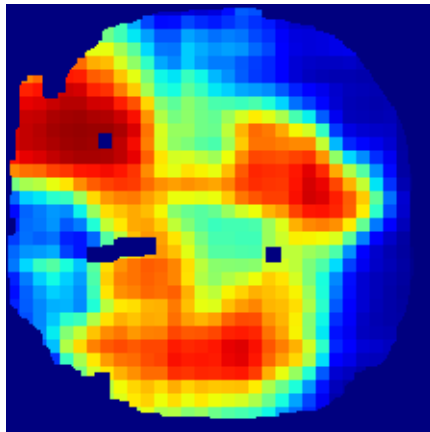
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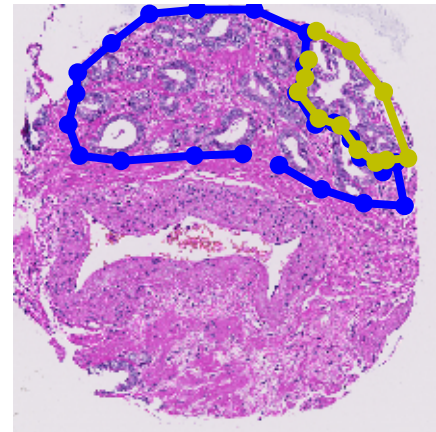
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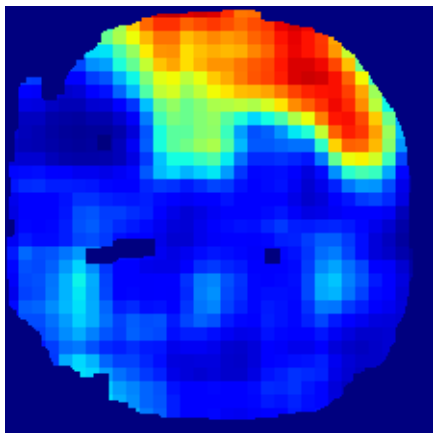
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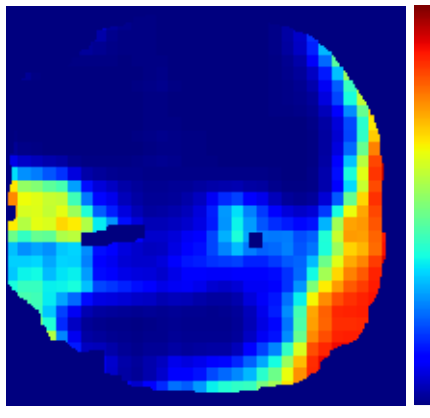
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Gleason 4



Gleason 5



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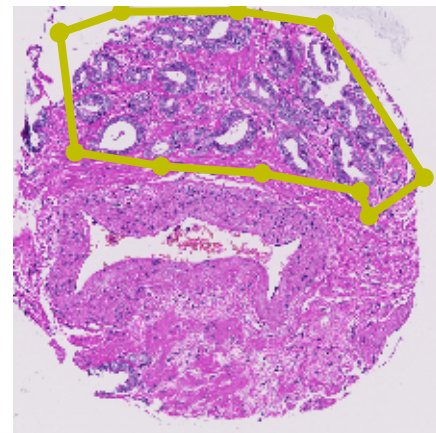
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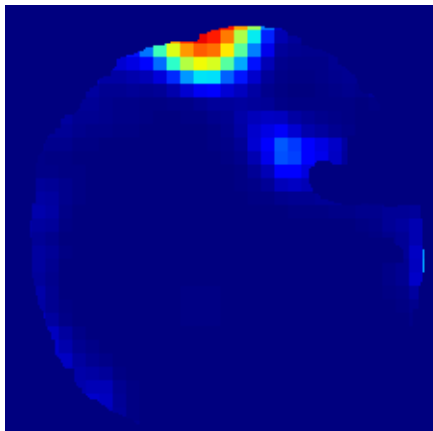
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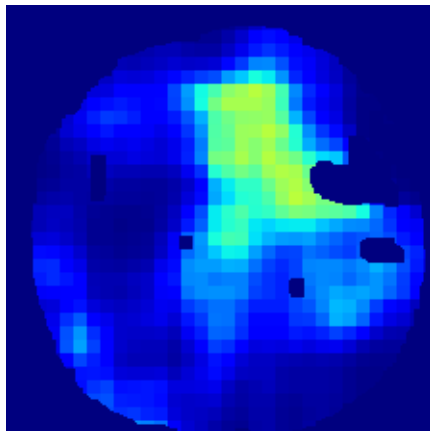
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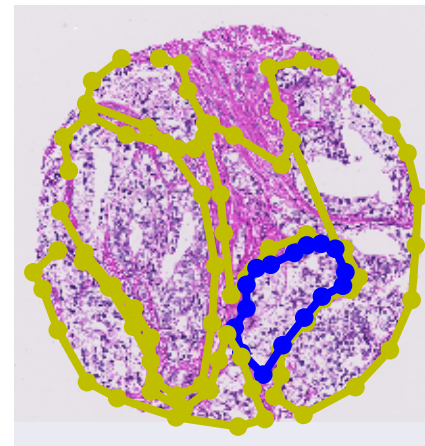
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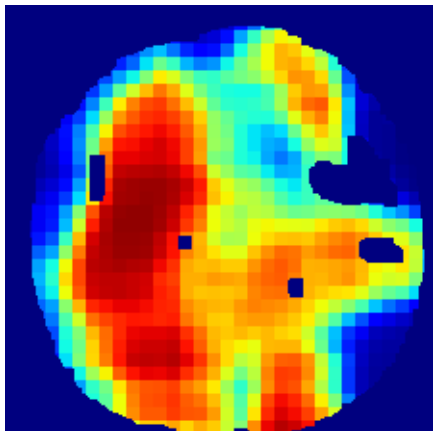
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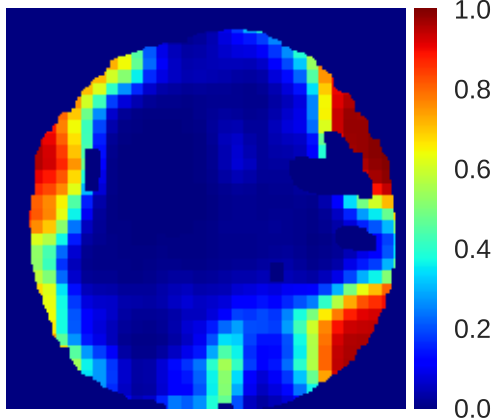
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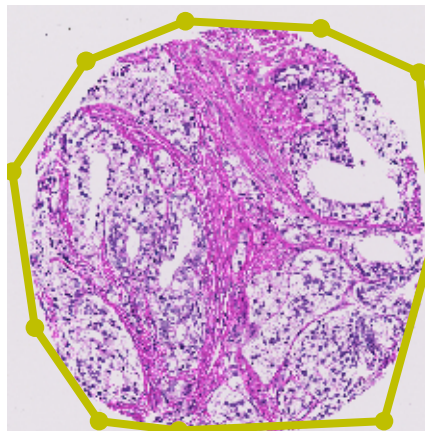
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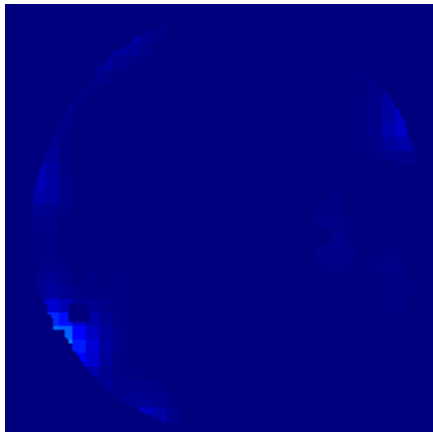
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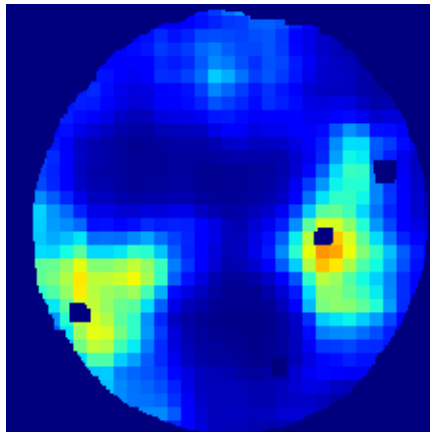
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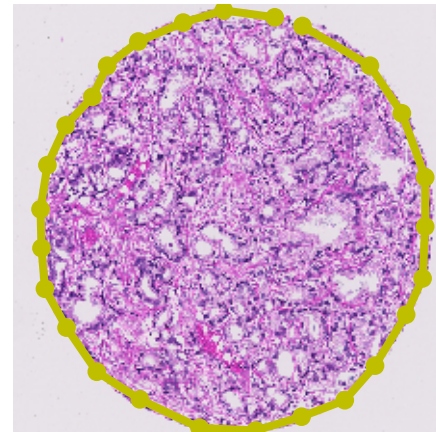
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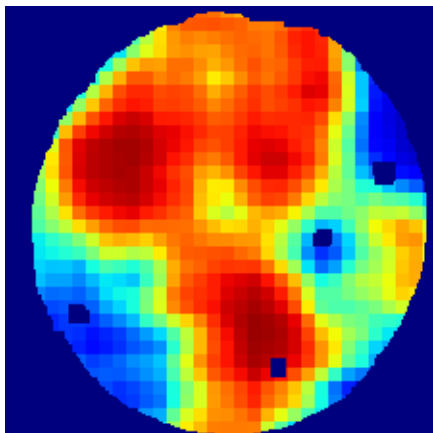
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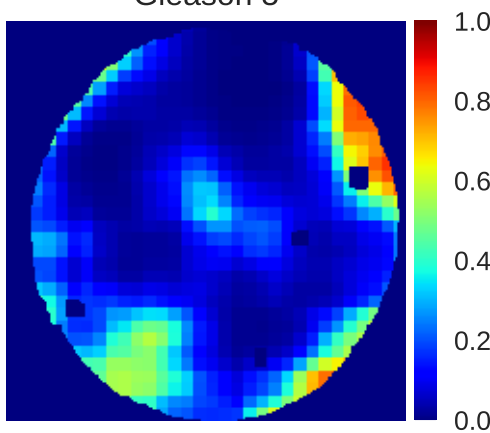
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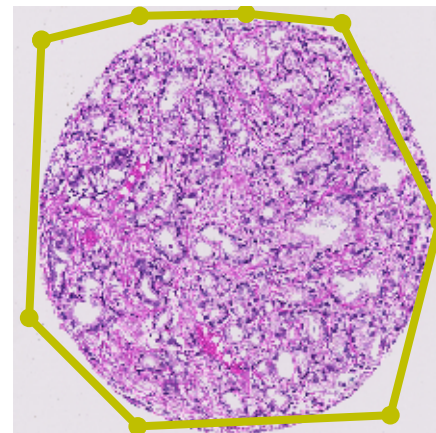
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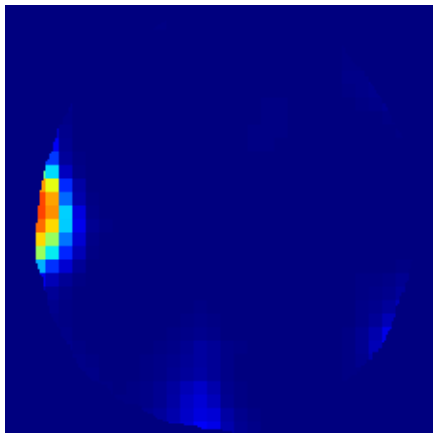
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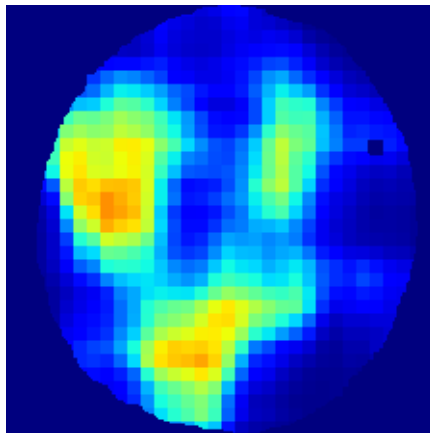
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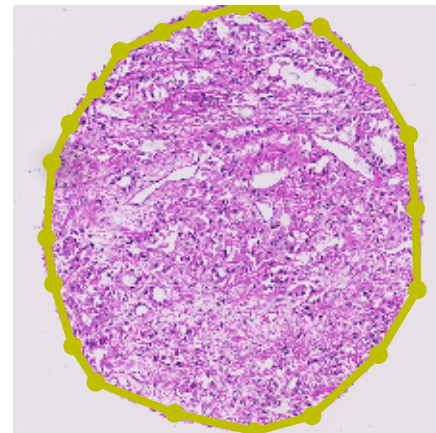
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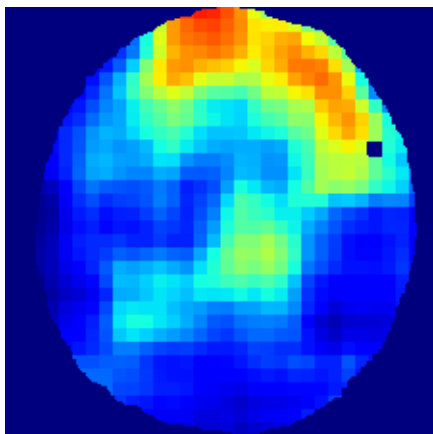
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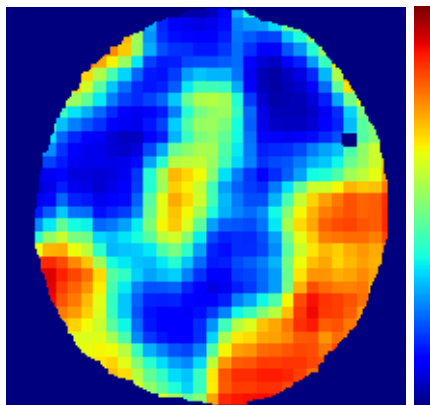
Pathologist 1



Gleason 4



Gleason 5



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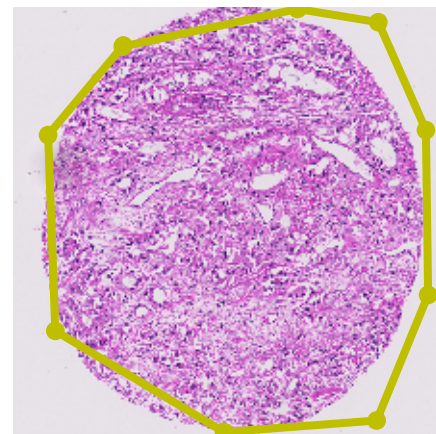
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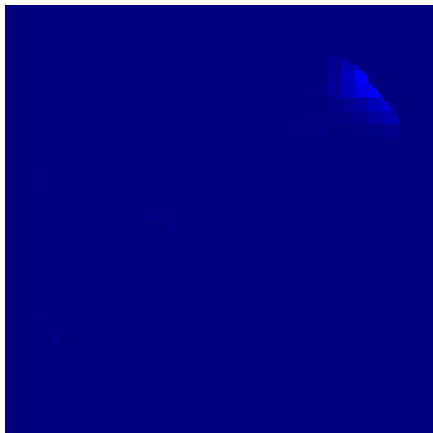
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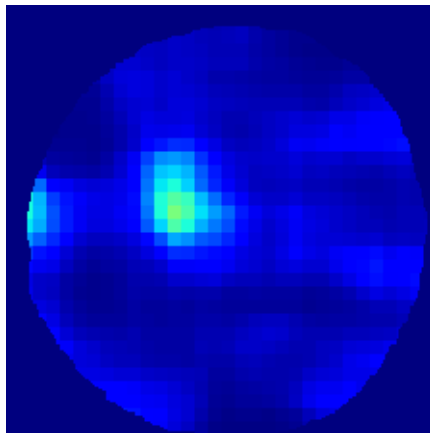
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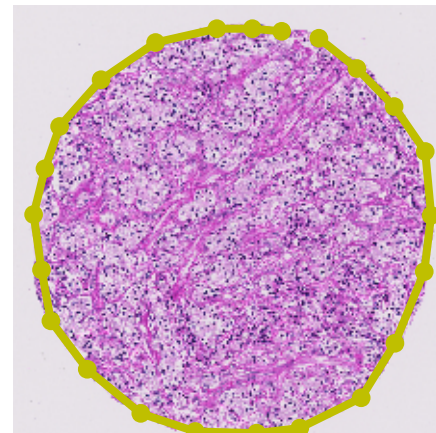
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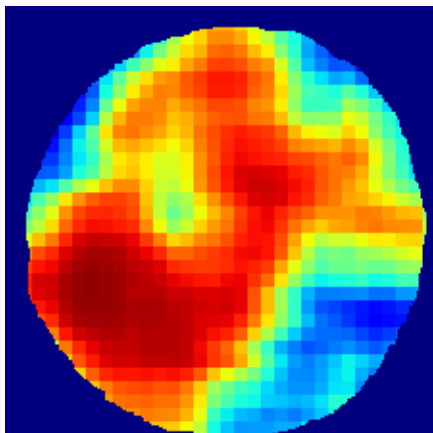
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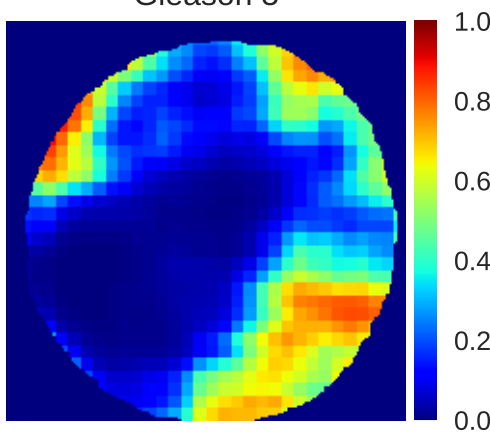
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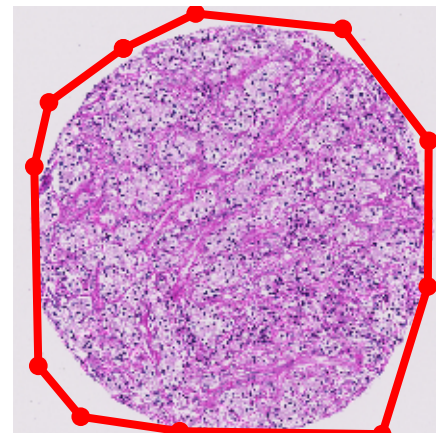
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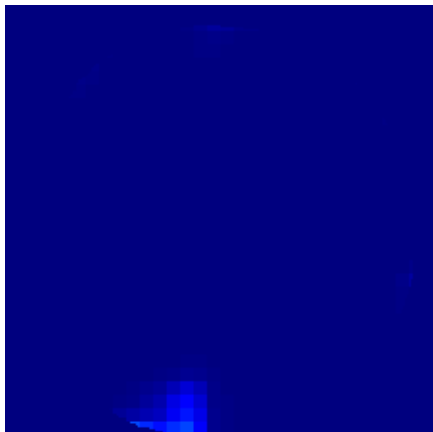
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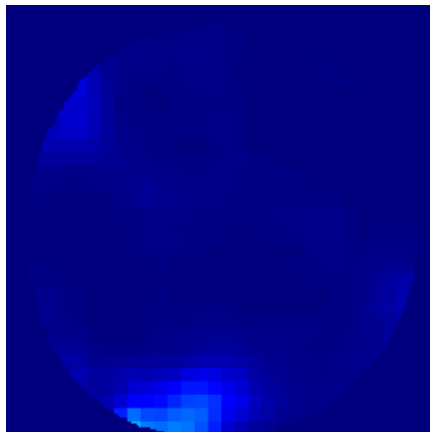
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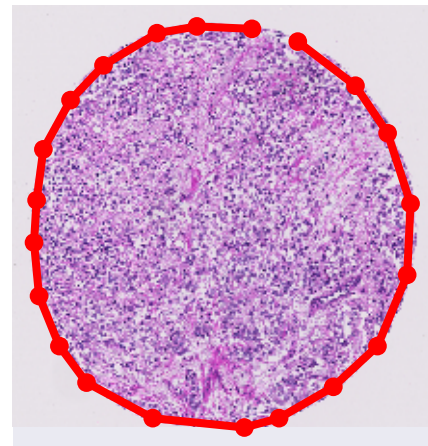
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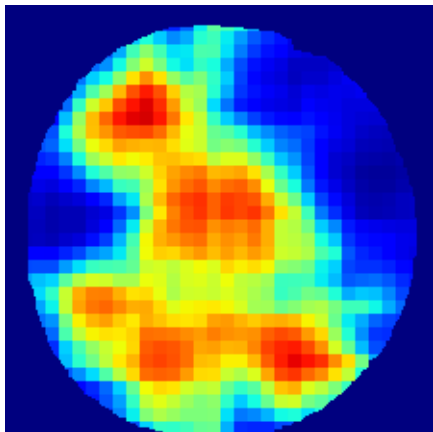
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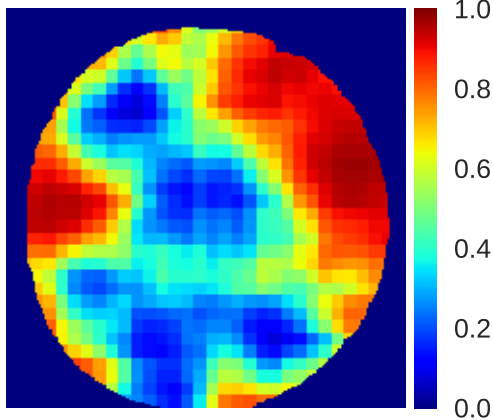
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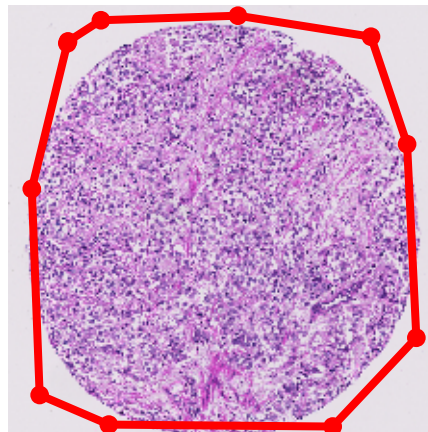
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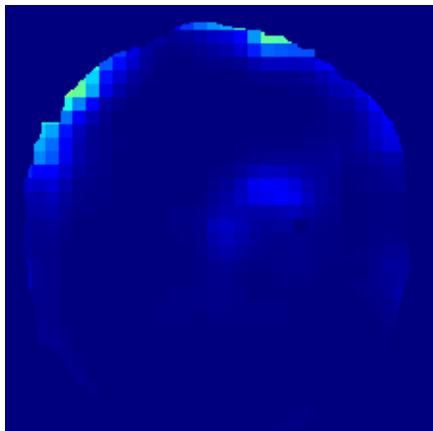
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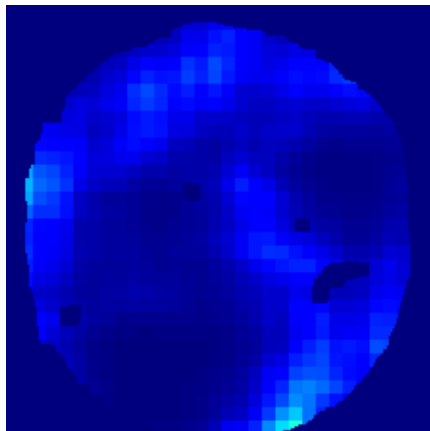
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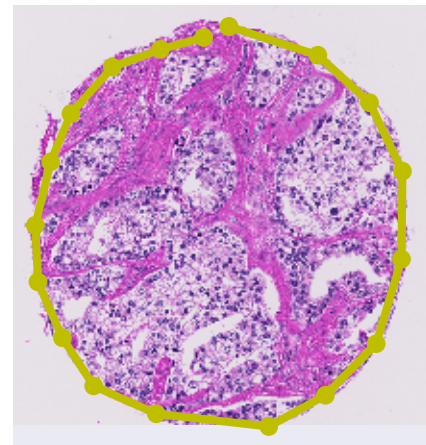
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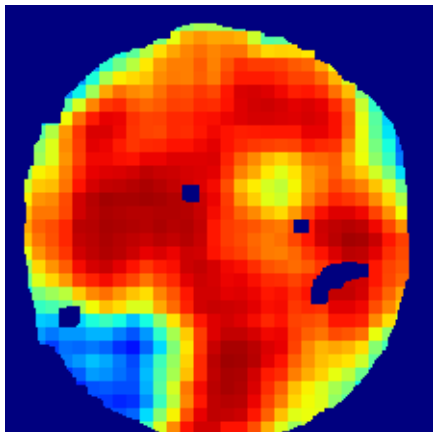
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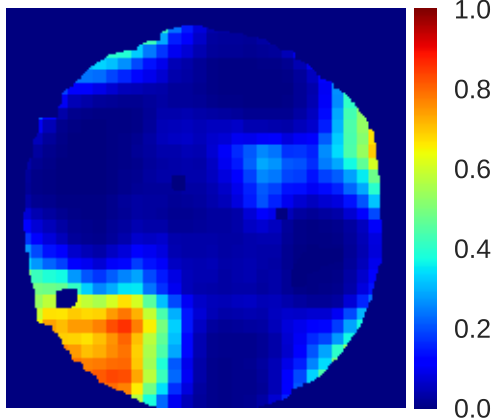
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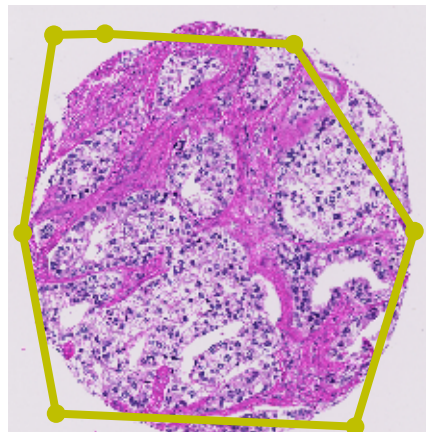
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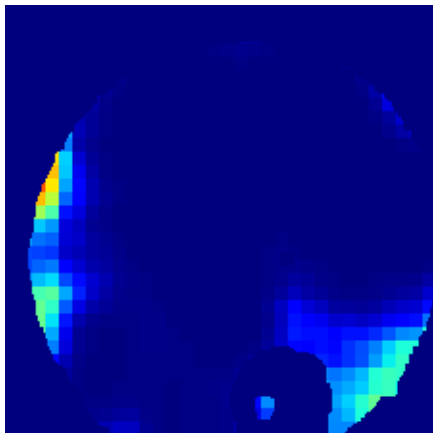
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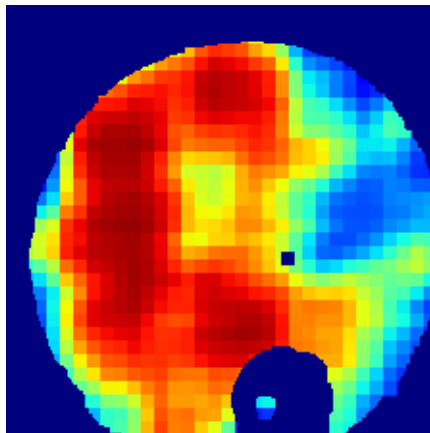
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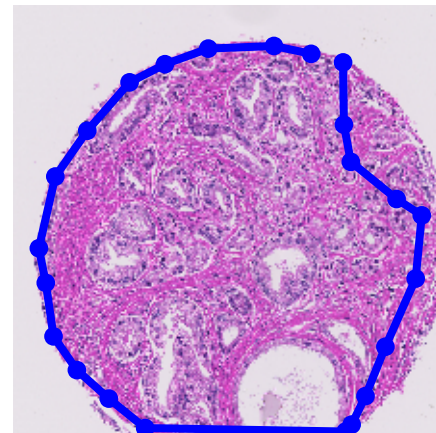
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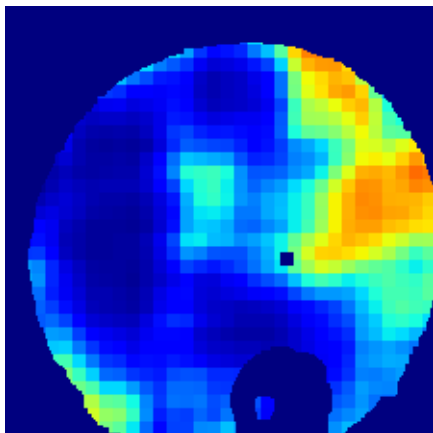
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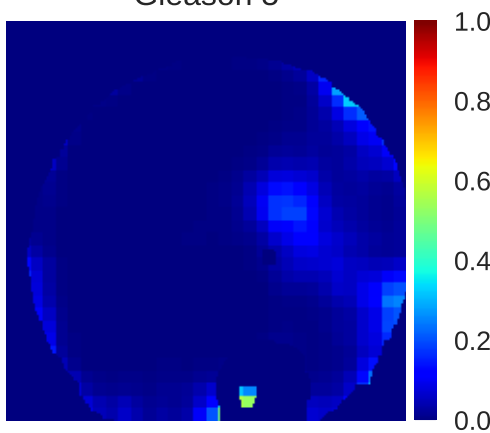
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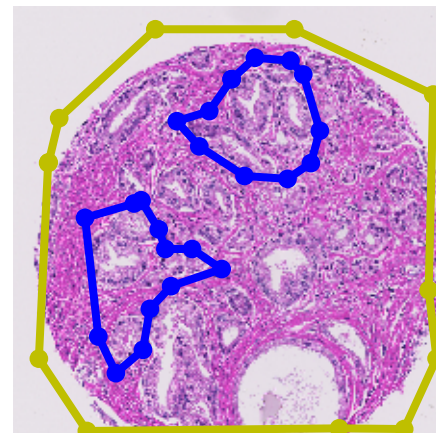
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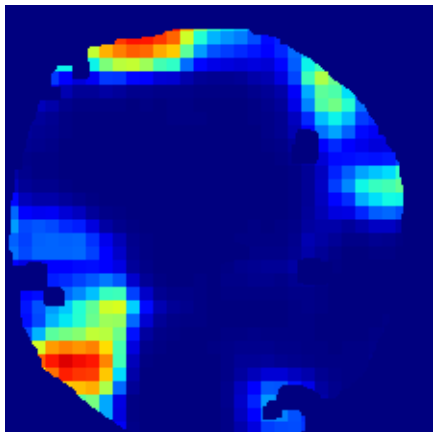
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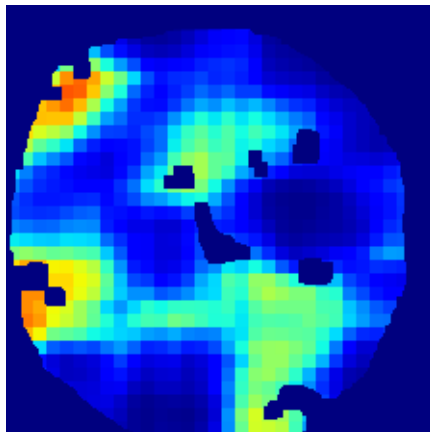
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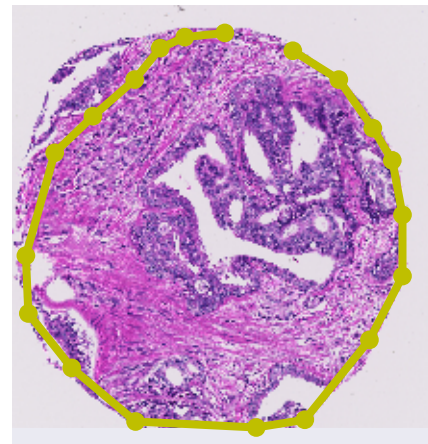
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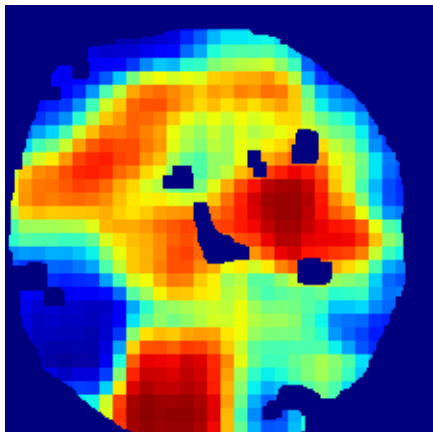
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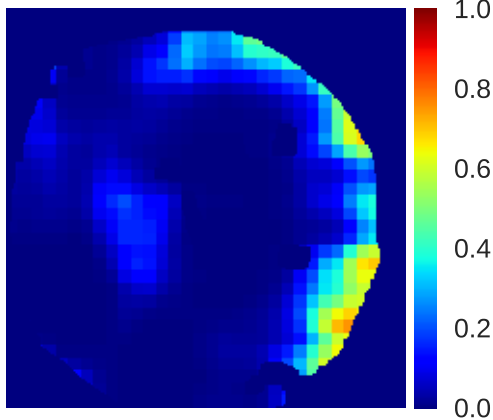
Pathologist 1



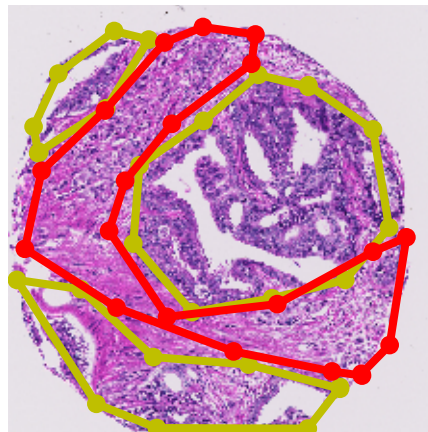
Gleason 4



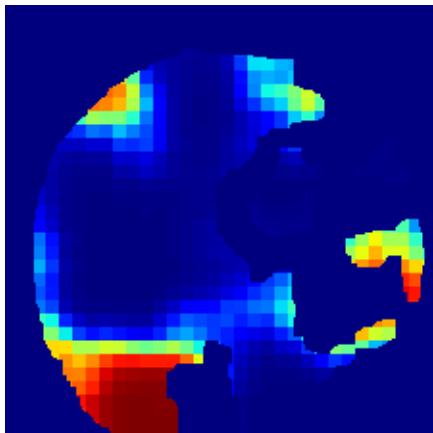
Gleason 5



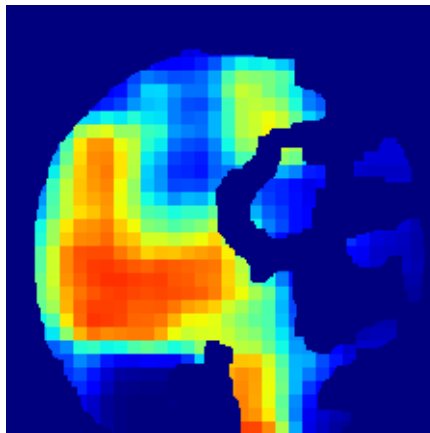
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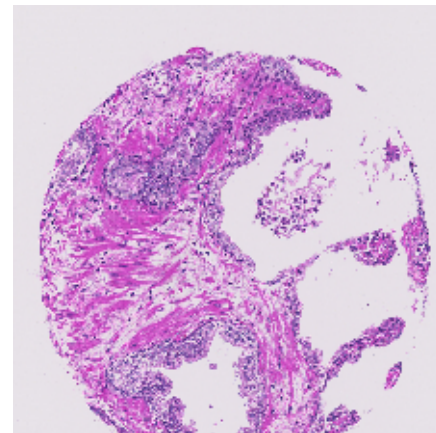
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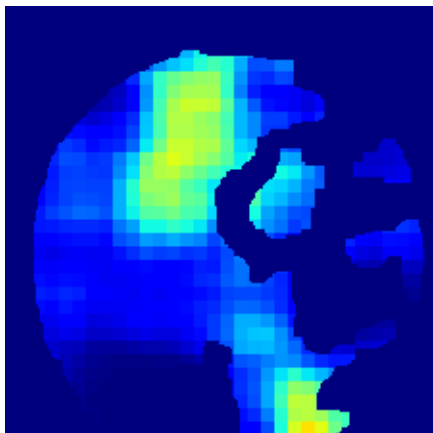
Gleason 3



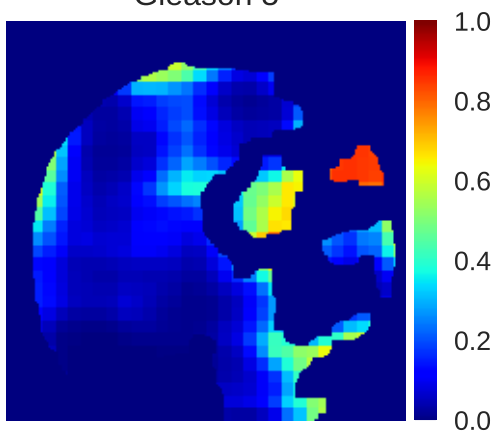
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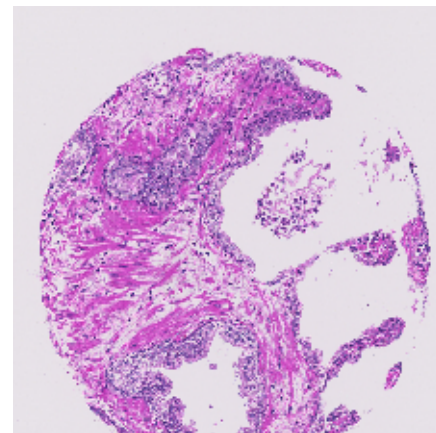
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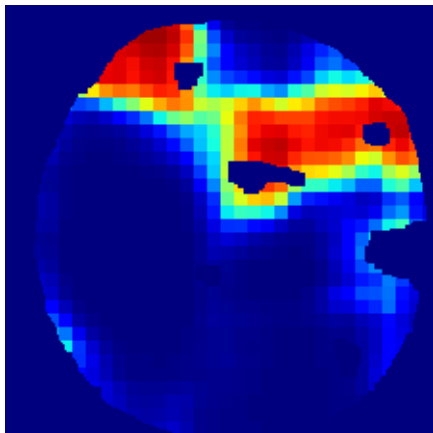
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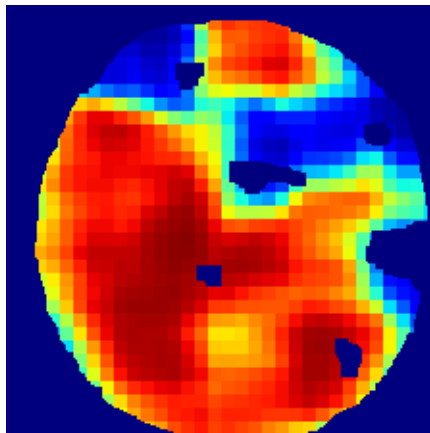
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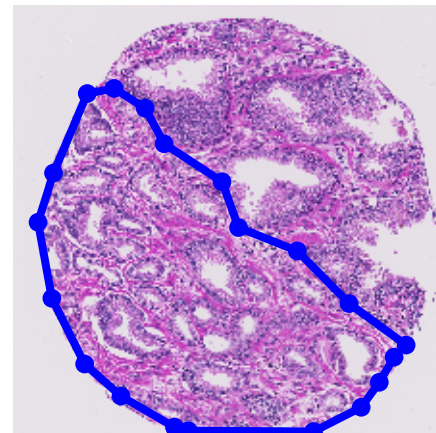
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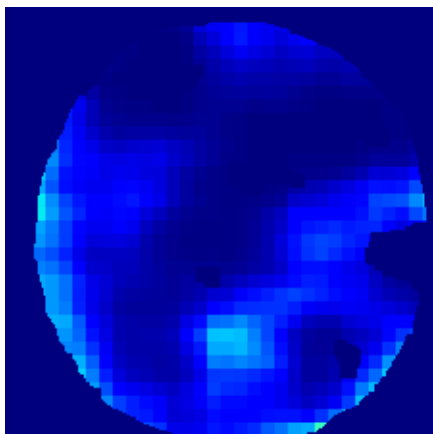
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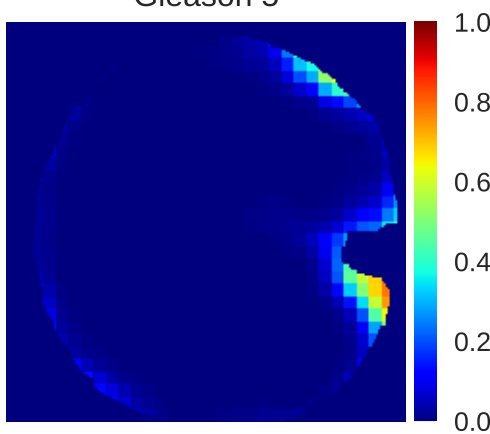
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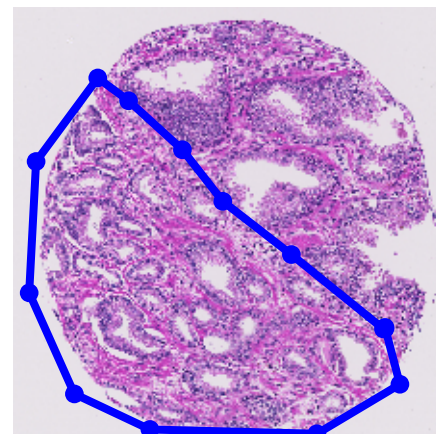
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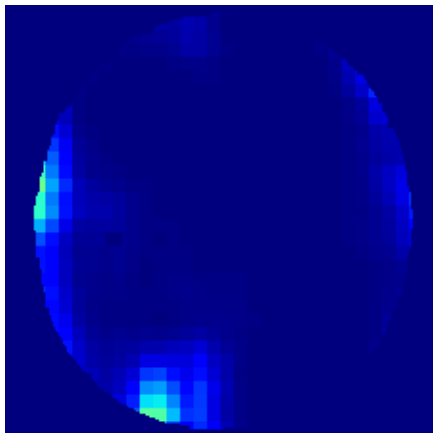
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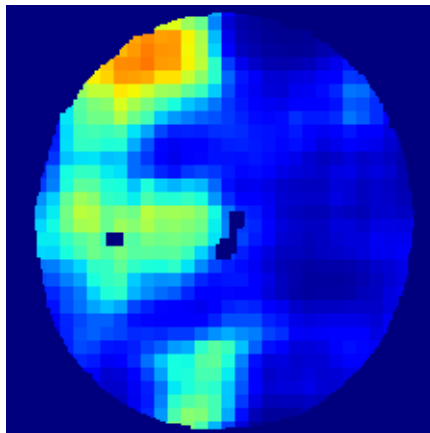
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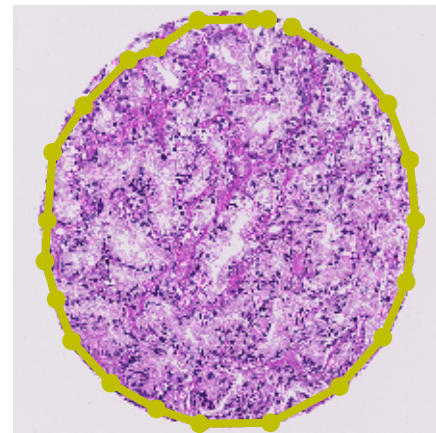
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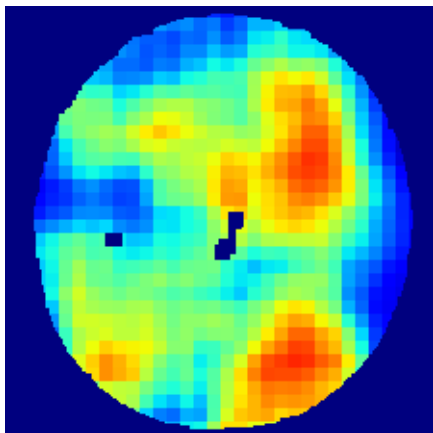
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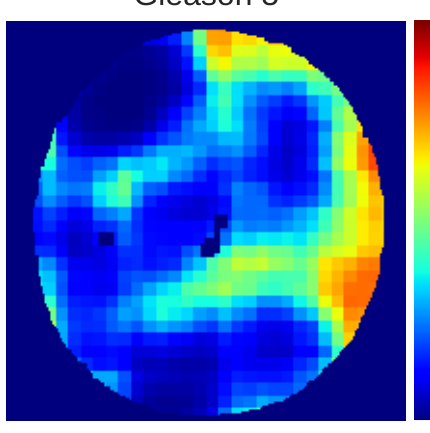
Pathologist 1



Gleason 4



Gleason 5



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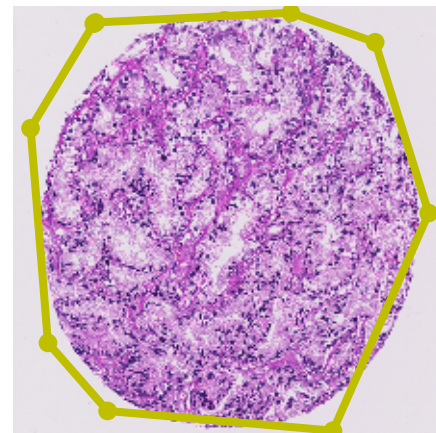
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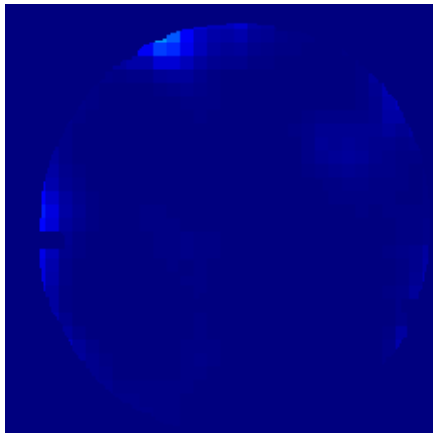
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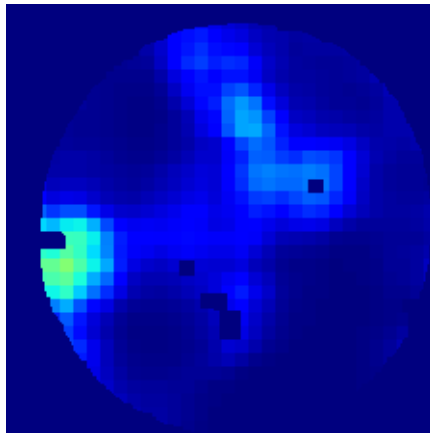
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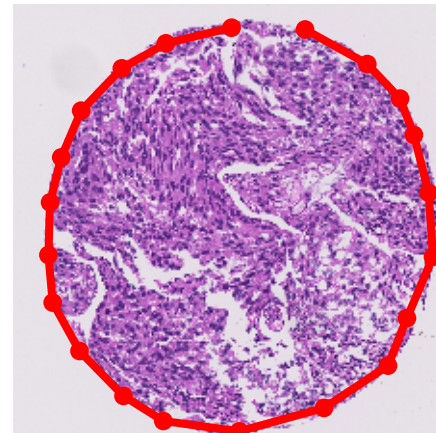
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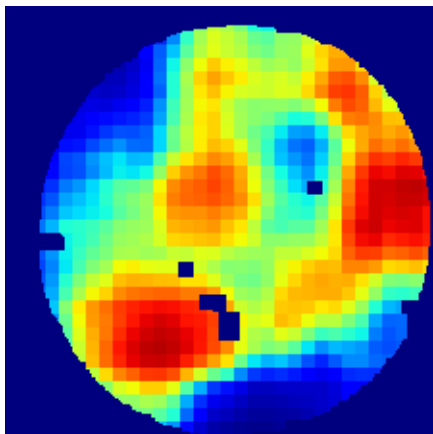
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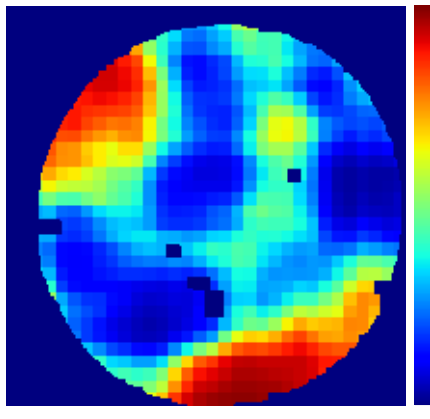
Pathologist 1



Gleason 4



Gleason 5



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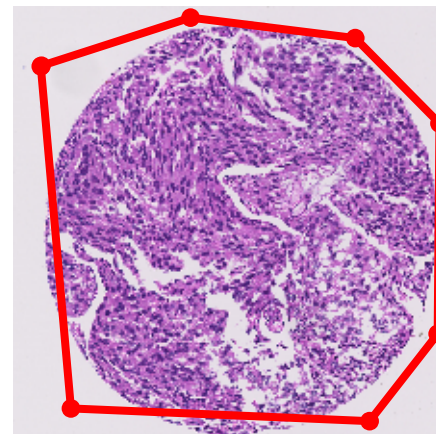
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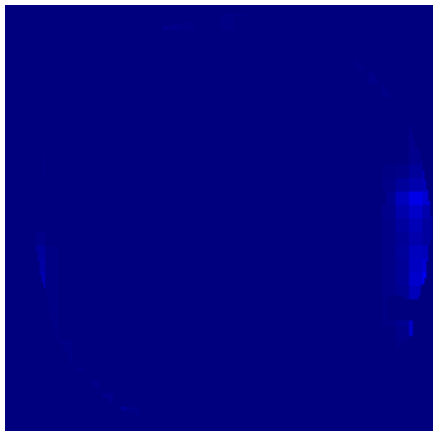
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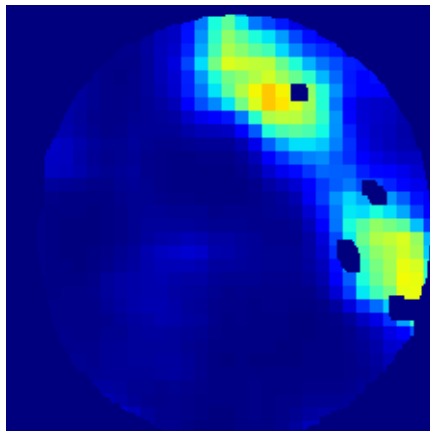
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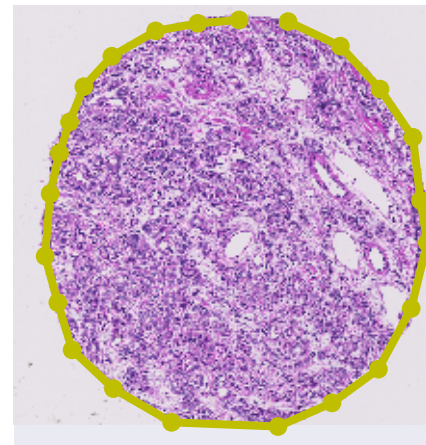
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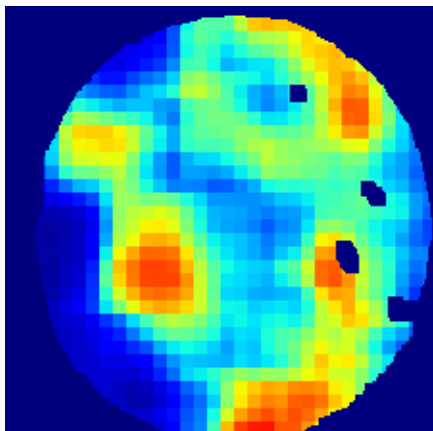
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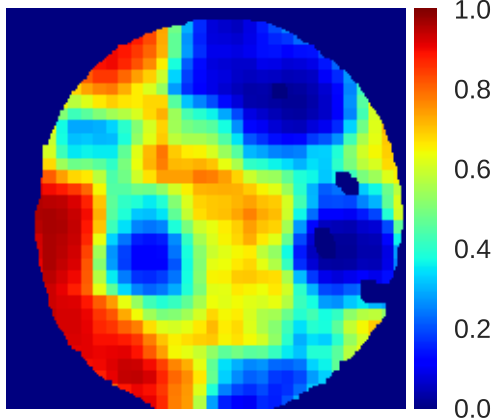
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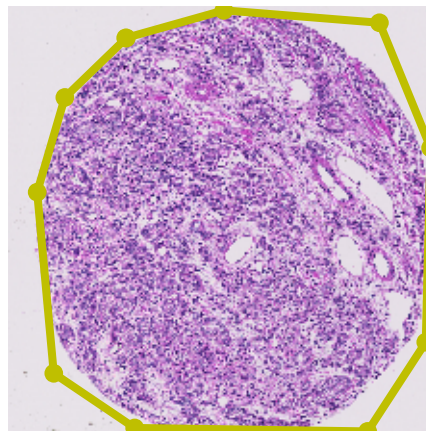
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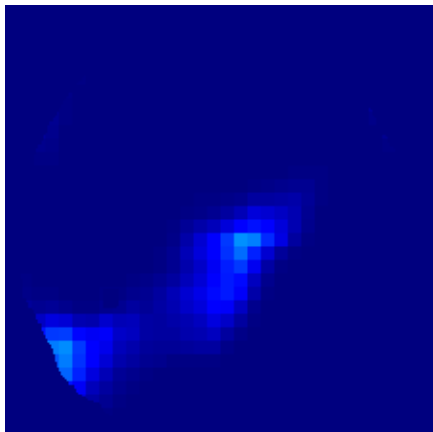
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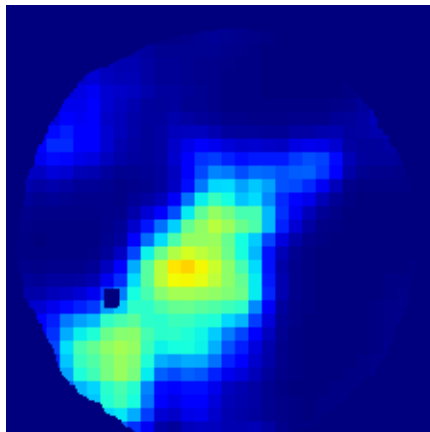
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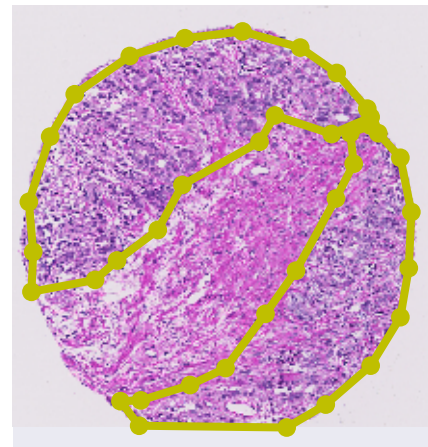
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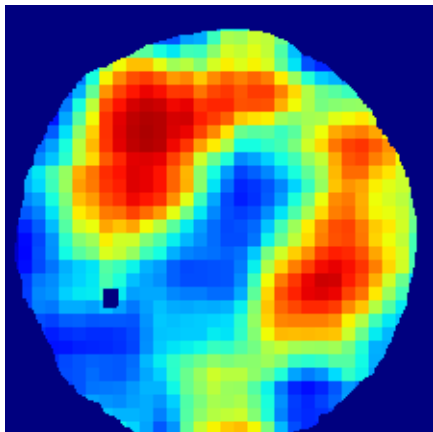
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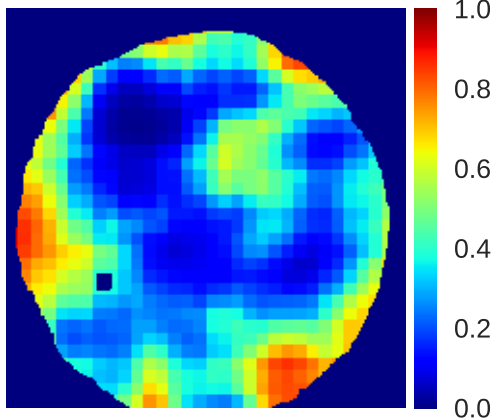
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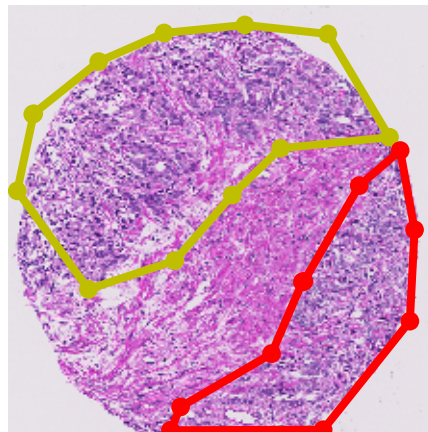
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Gleason 5



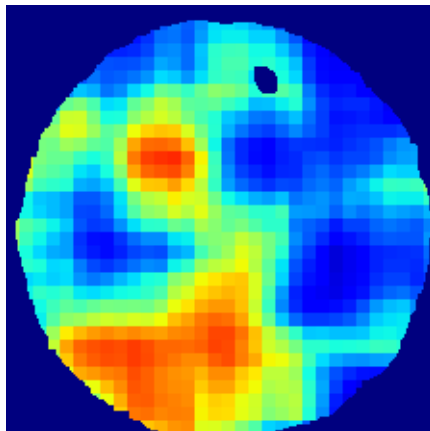
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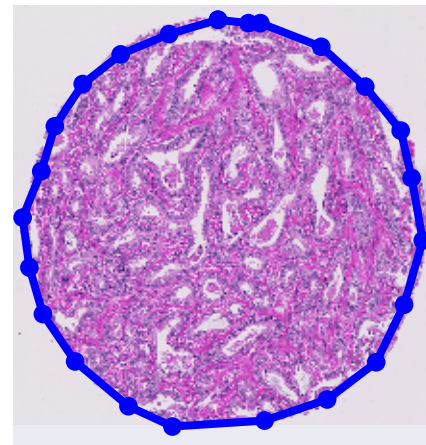
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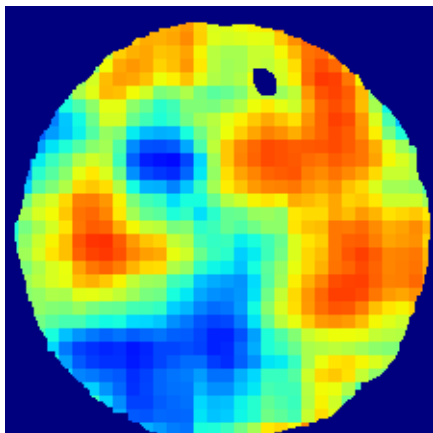
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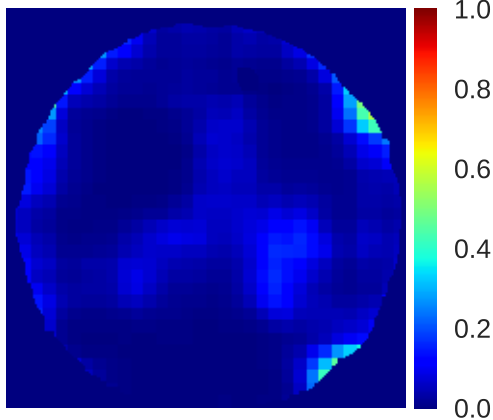
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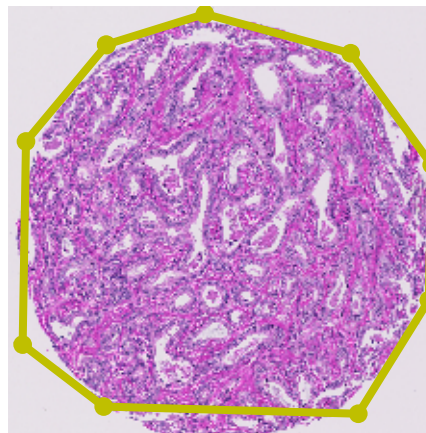
Gleason 4



Gleason 5



Pathologist 2



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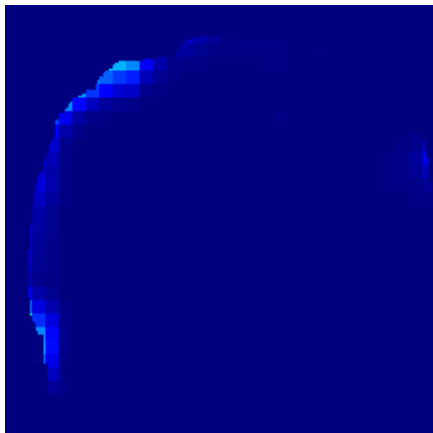
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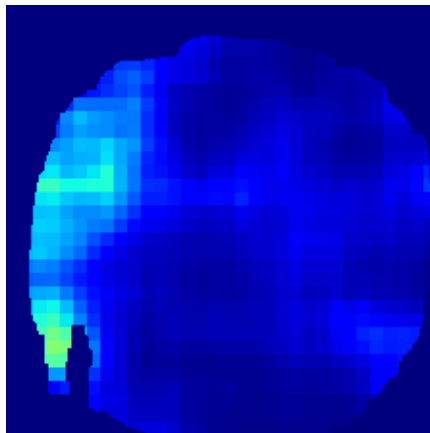
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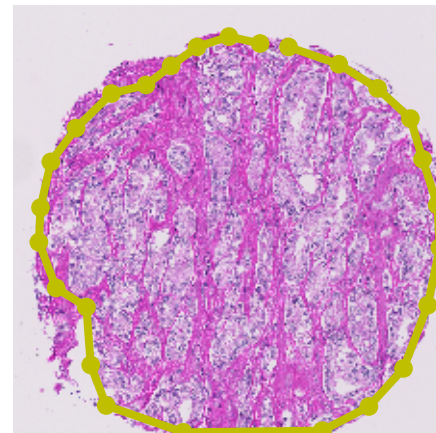
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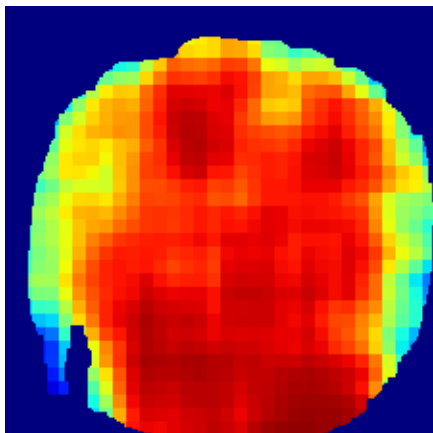
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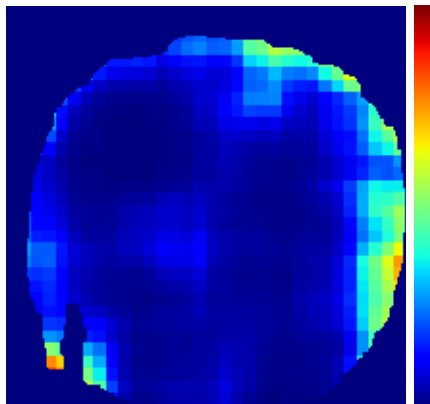
Pathologist 1



Gleason 4



Gleason 5



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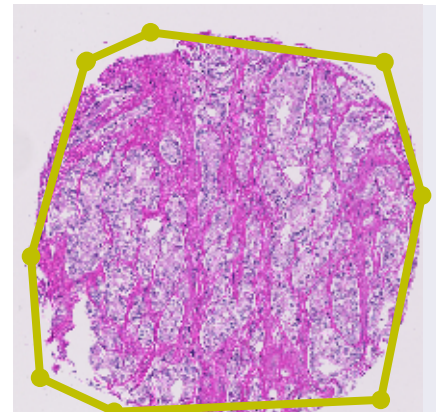
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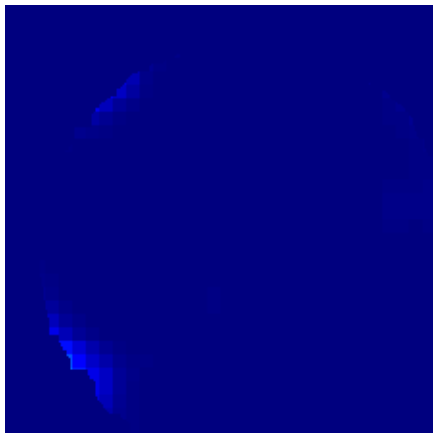
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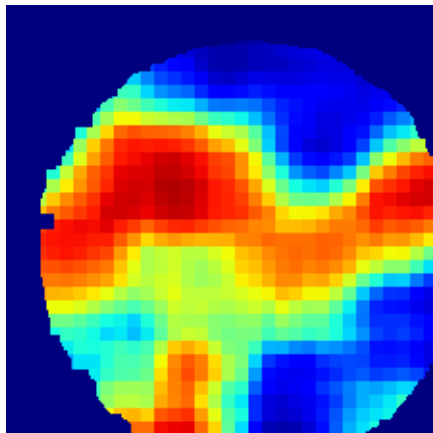
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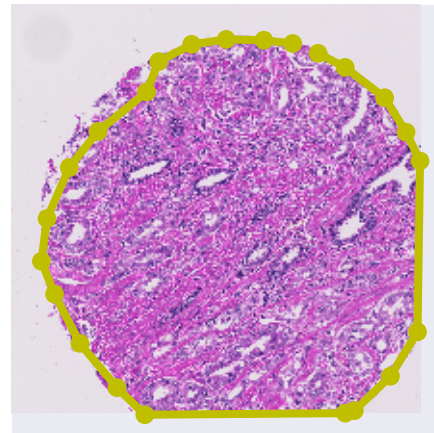
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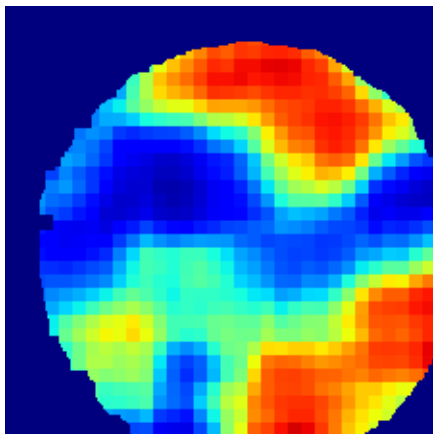
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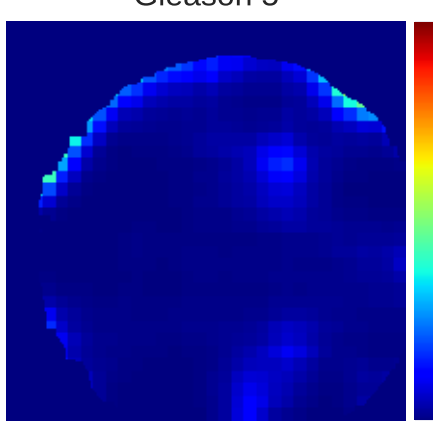
Pathologist 1



Gleason 4



Gleason 5



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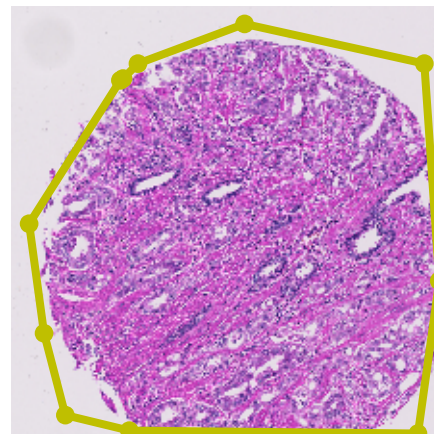
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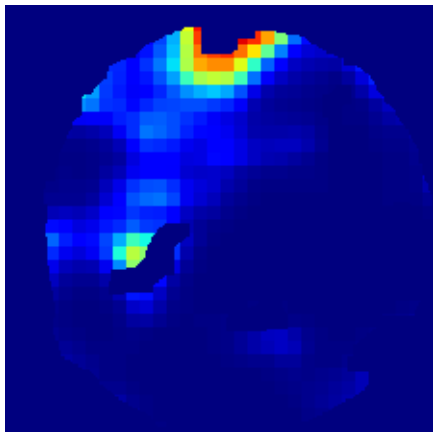
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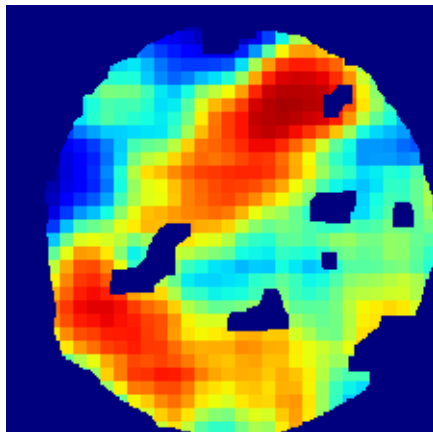
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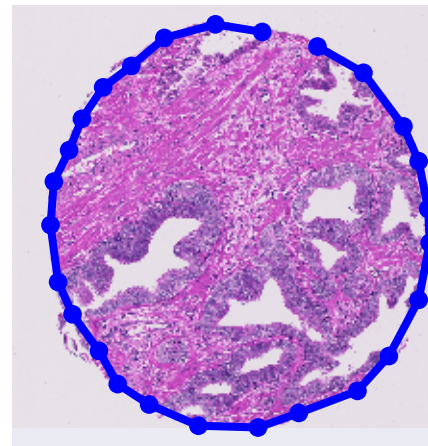
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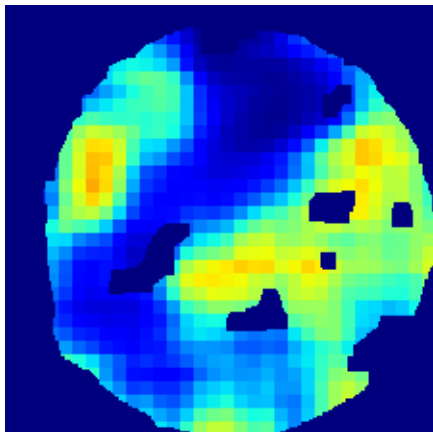
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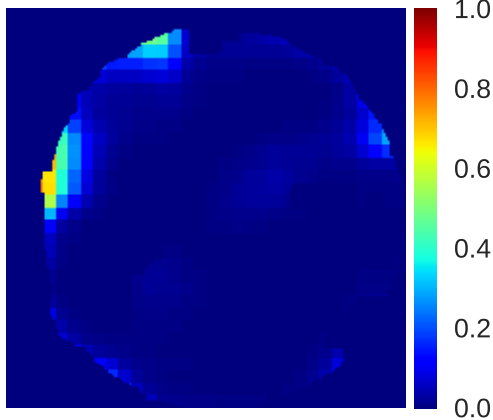
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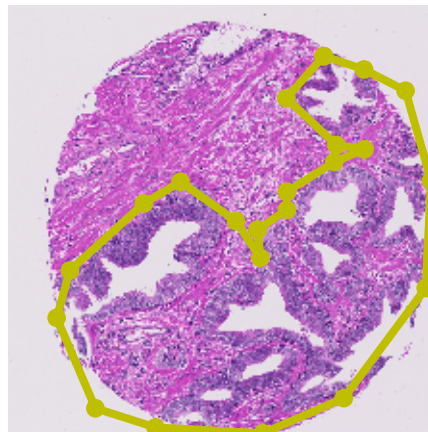
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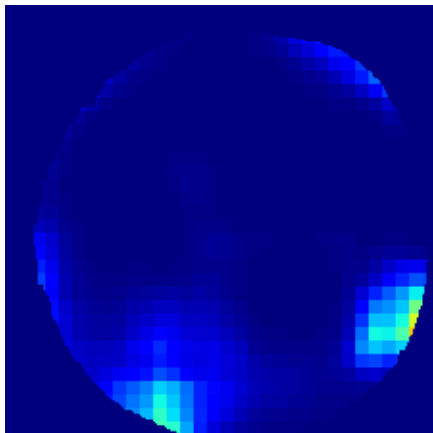
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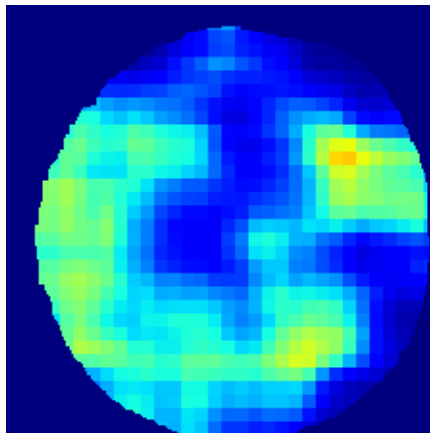
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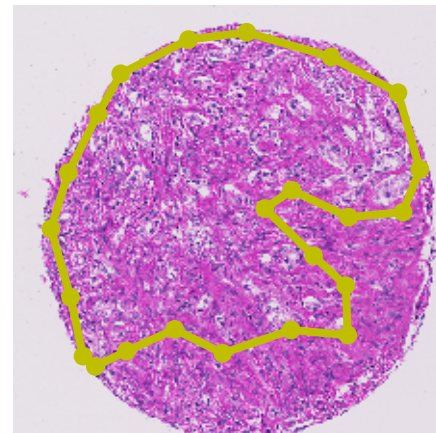
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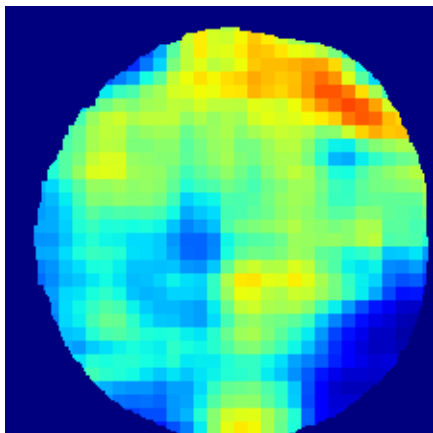
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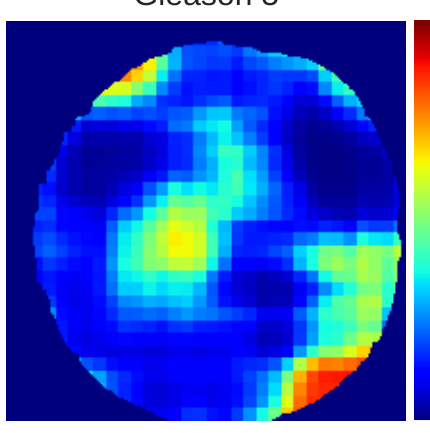
Pathologist 1



Gleason 4



Gleason 5



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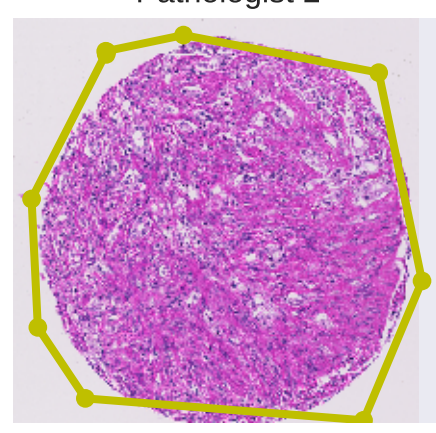
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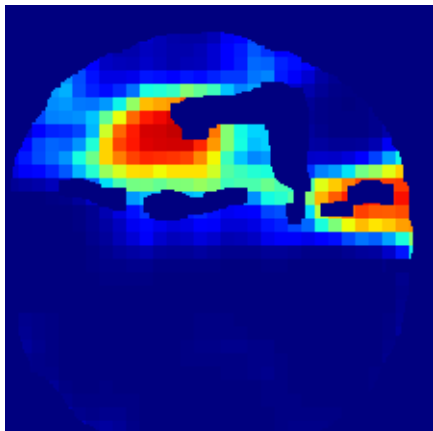
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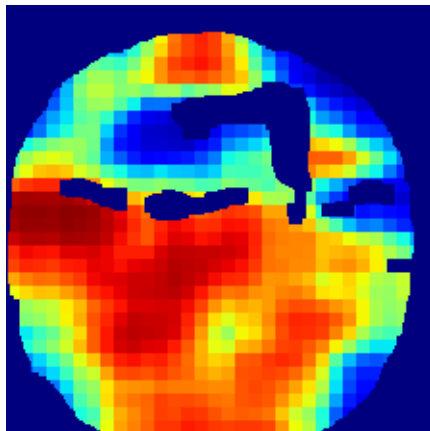
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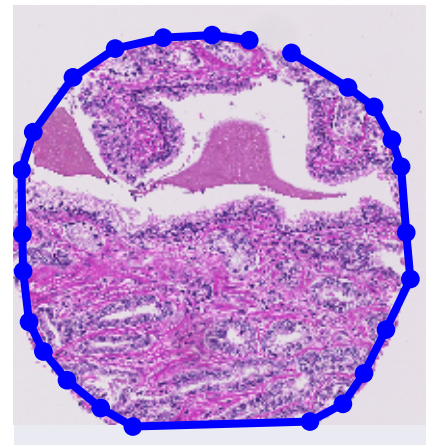
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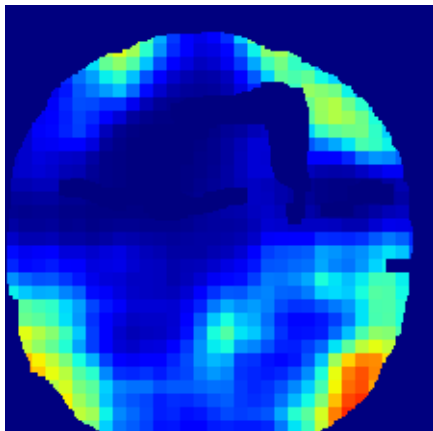
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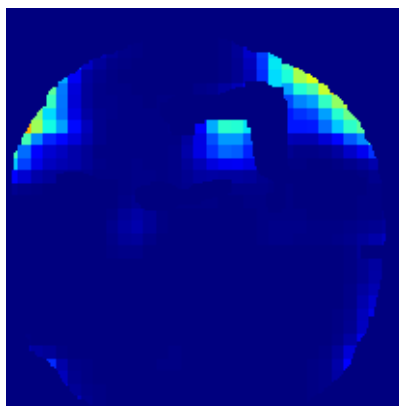
Pathologist 1



Gleason 4



Gleason 5



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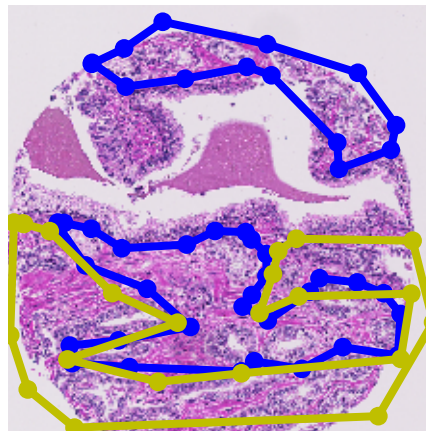
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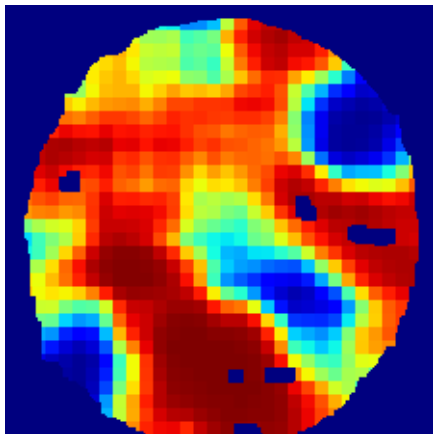
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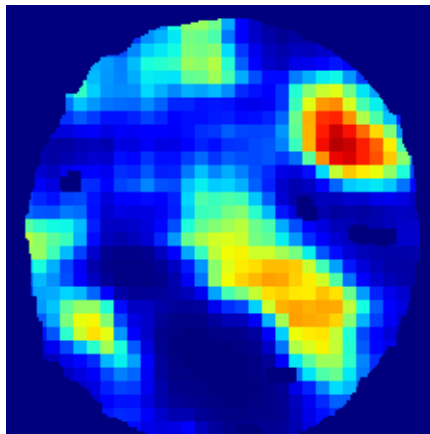
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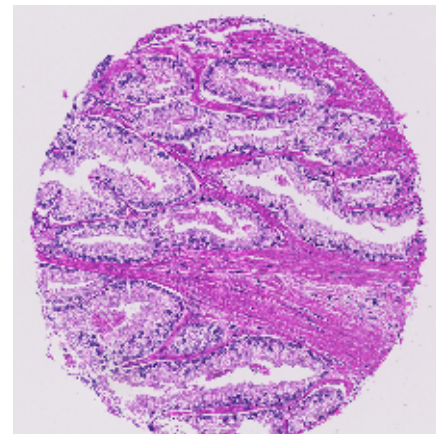
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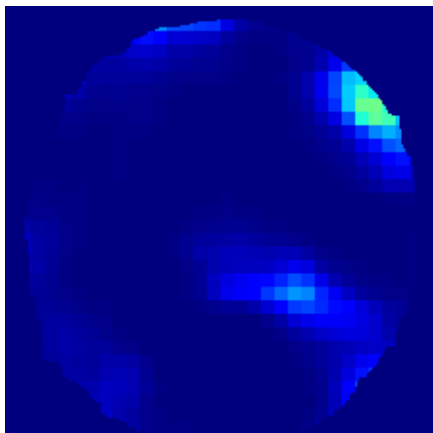
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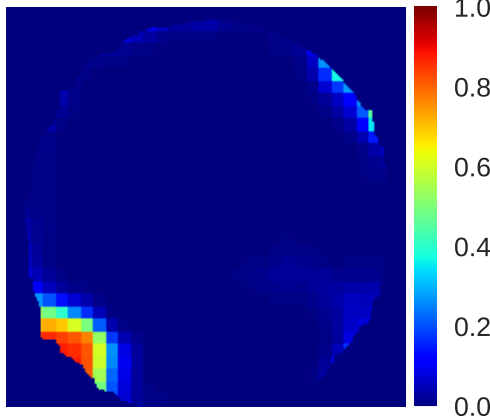
Pathologist 1



Gleason 4



Gleason 5



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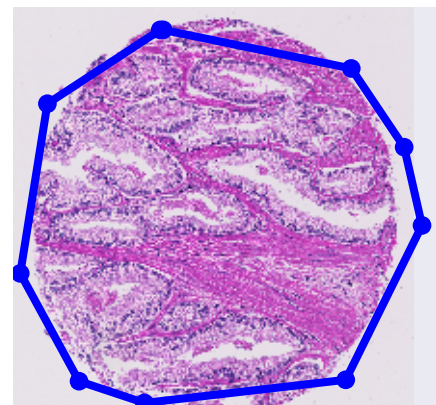
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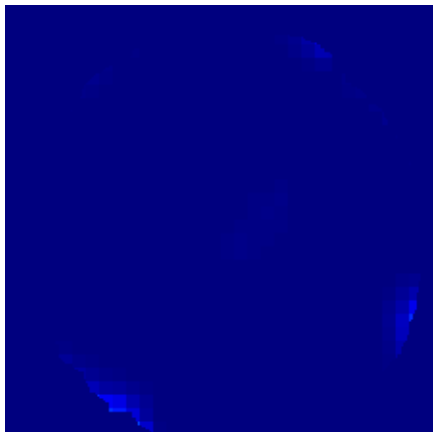
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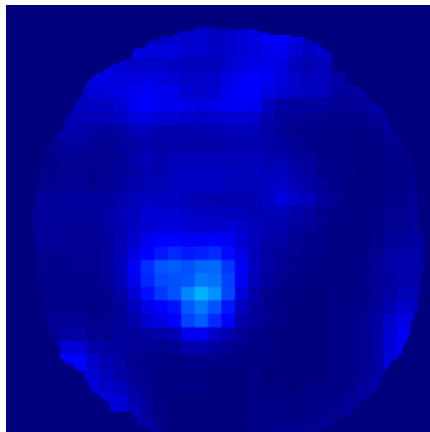
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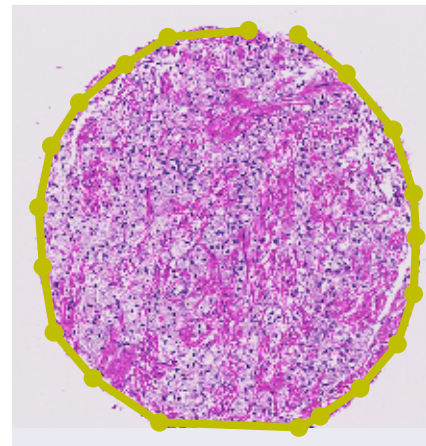
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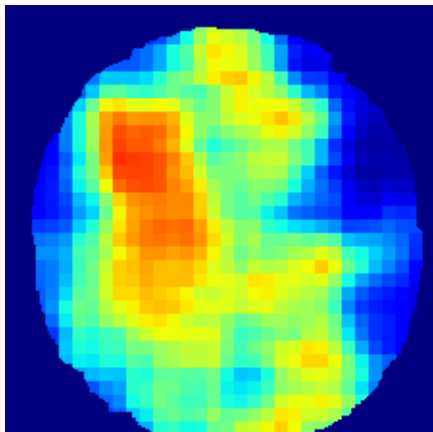
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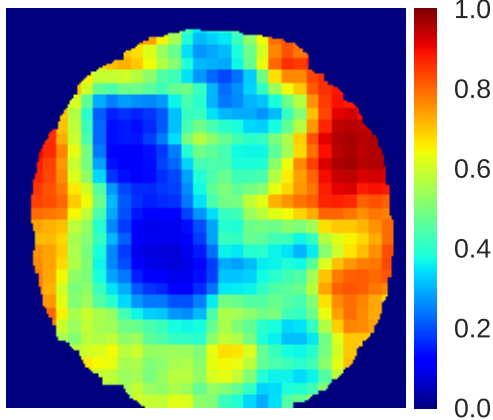
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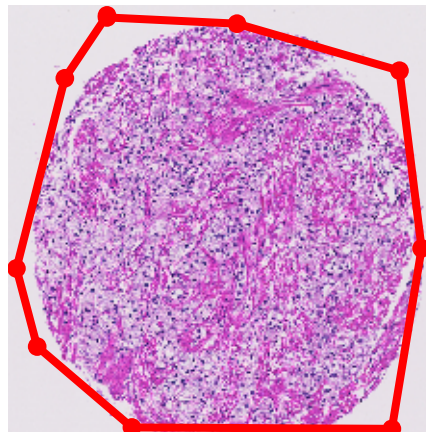
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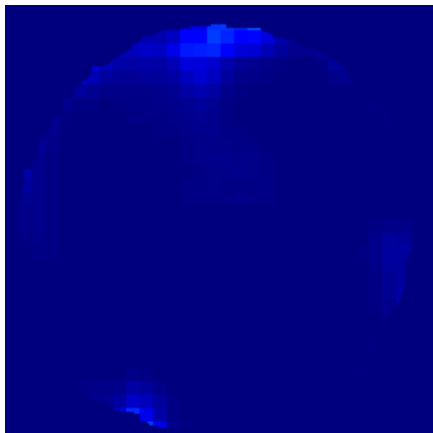
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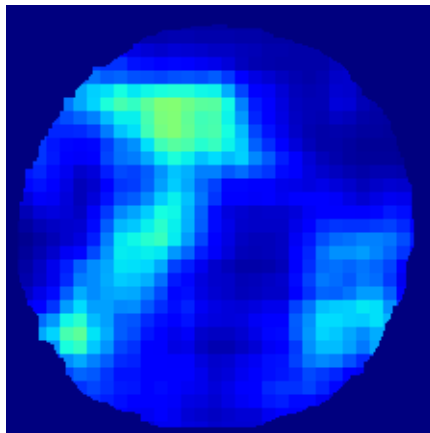
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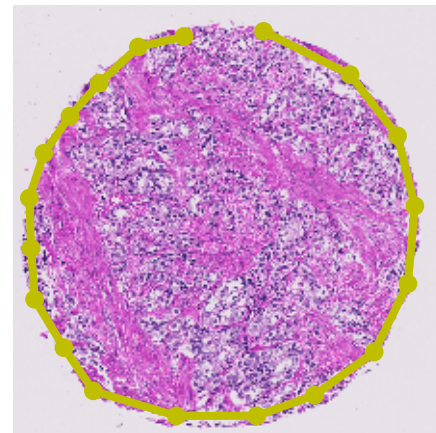
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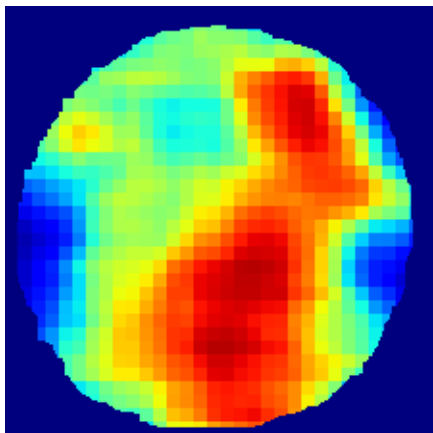
Gleason 3



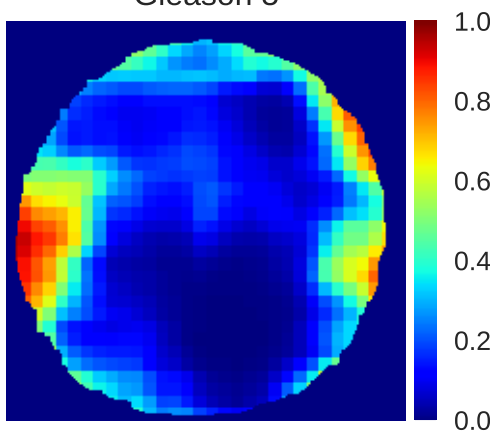
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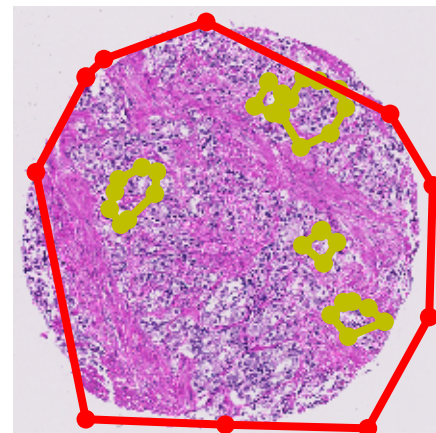
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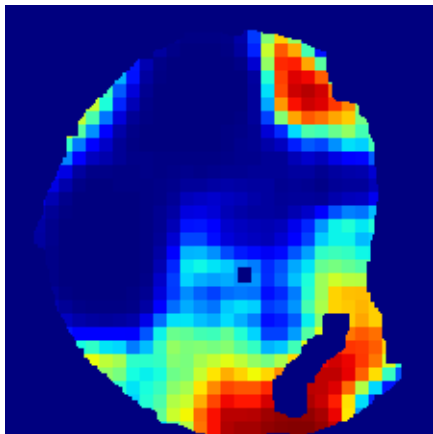
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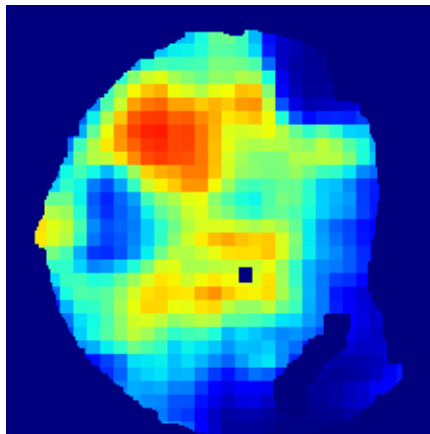
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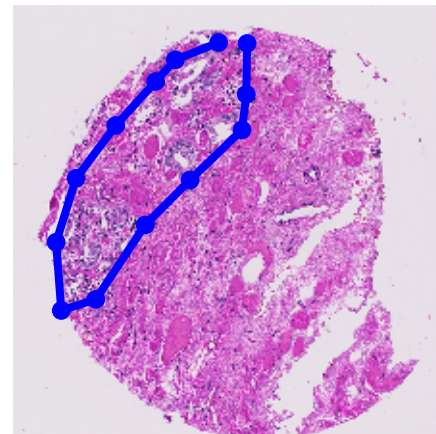
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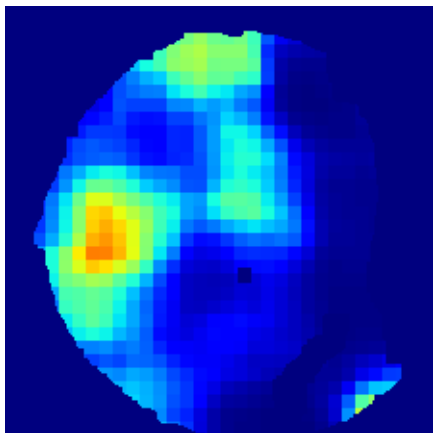
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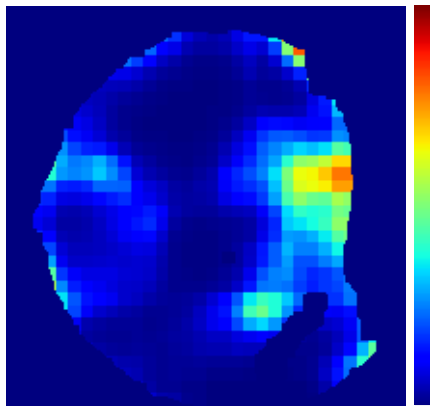
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Gleason 4



Gleason 5



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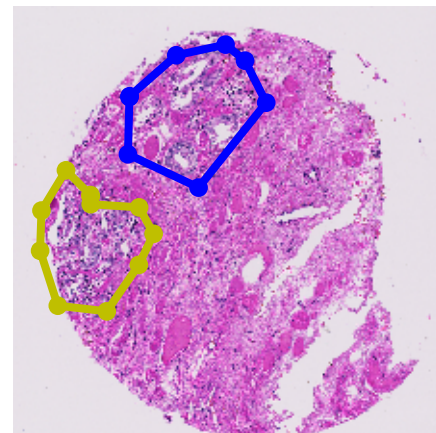
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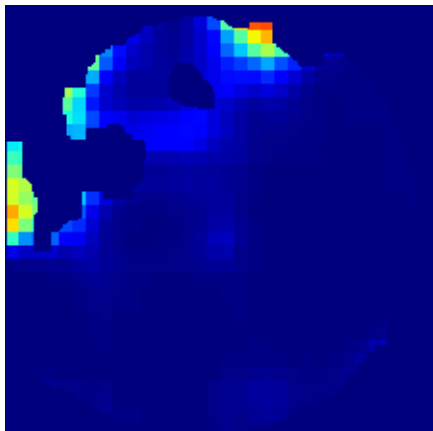
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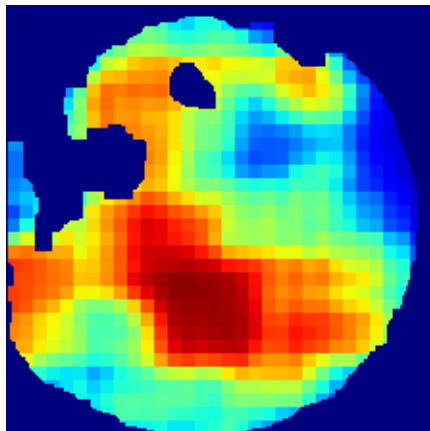
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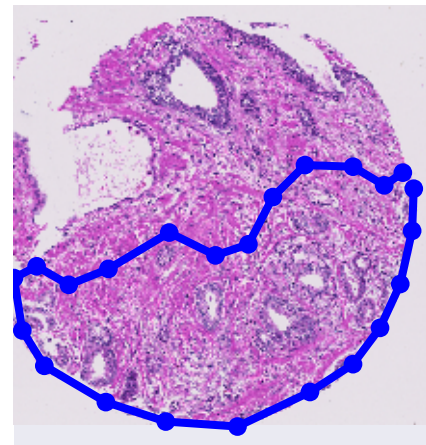
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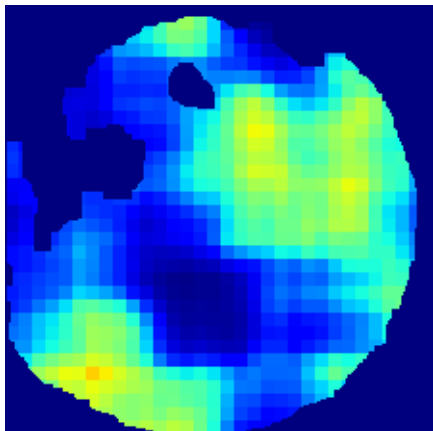
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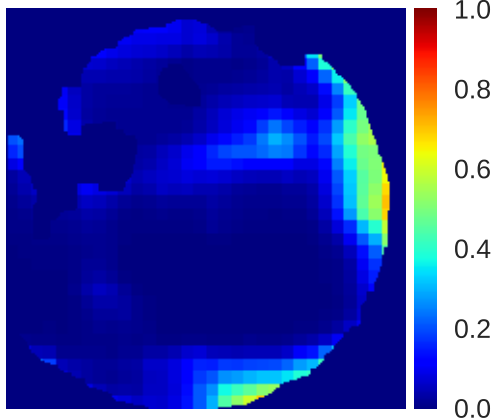
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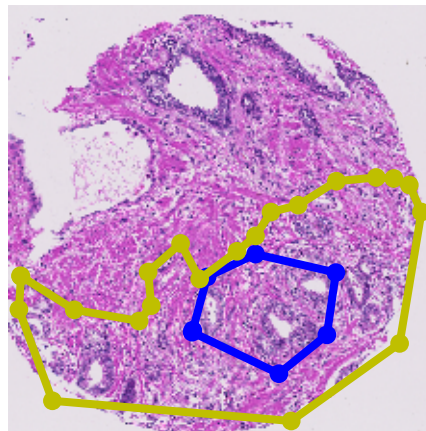
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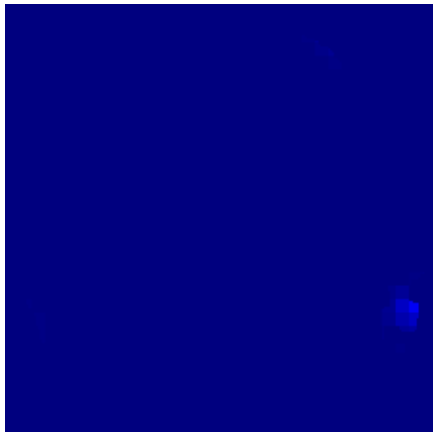
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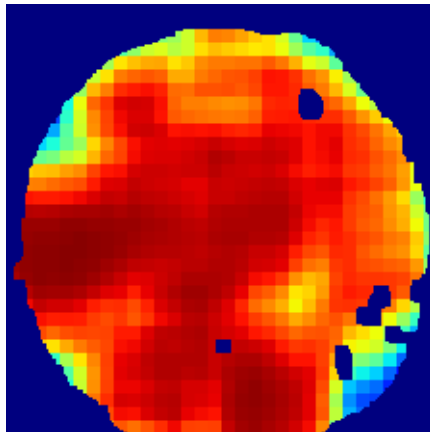
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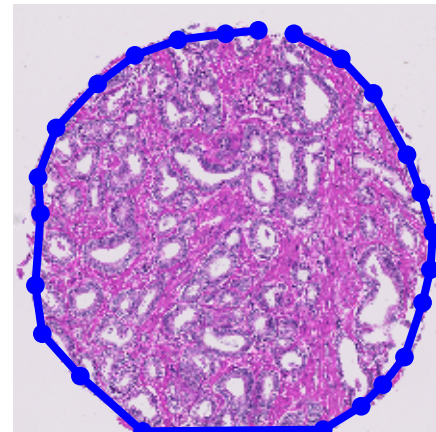
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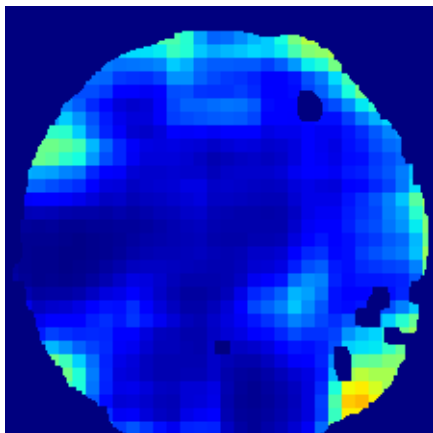
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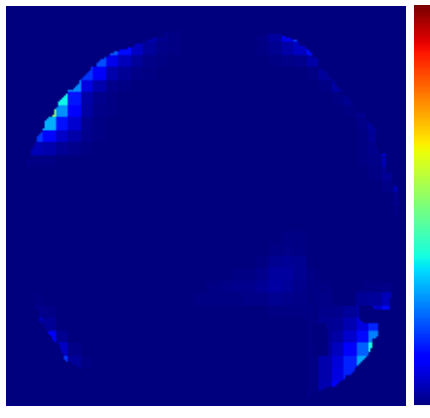
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Gleason 4



Gleason 5



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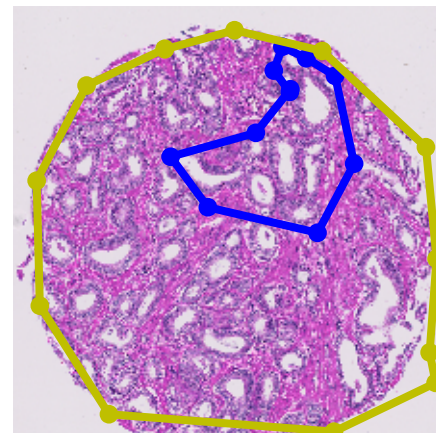
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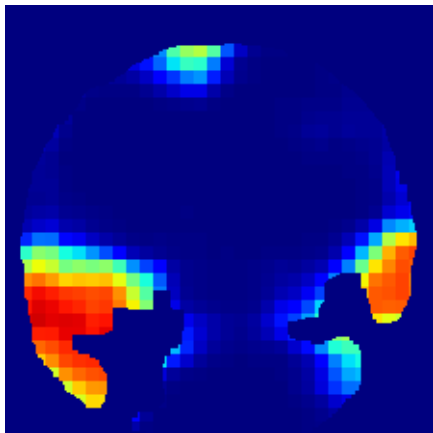
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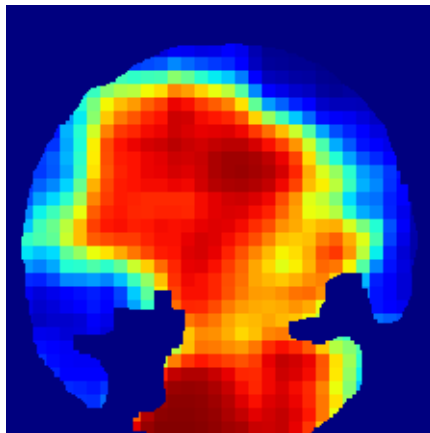
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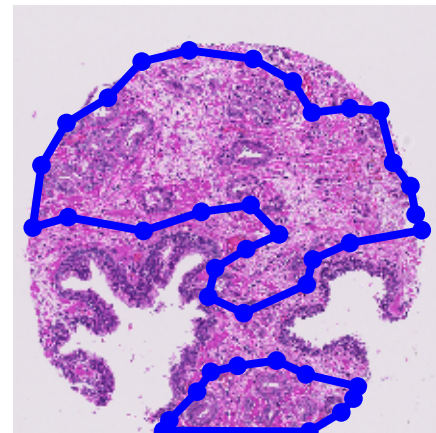
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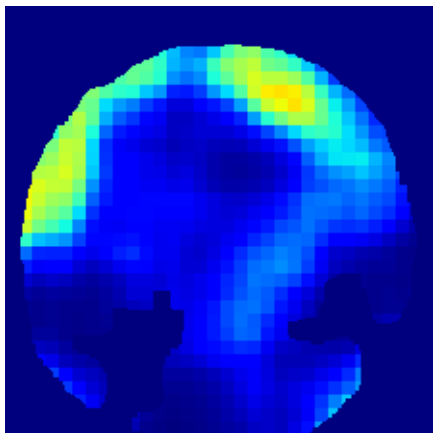
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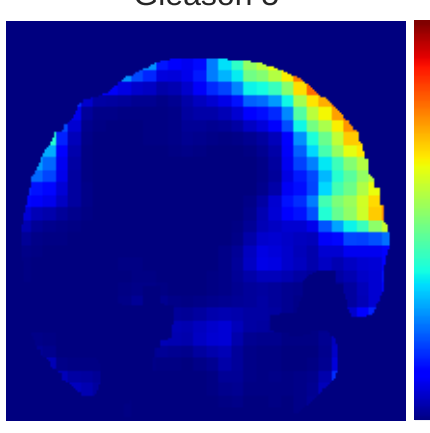
Pathologist 1



Gleason 4



Gleason 5



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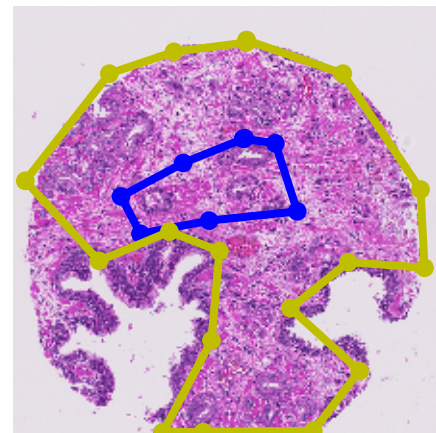
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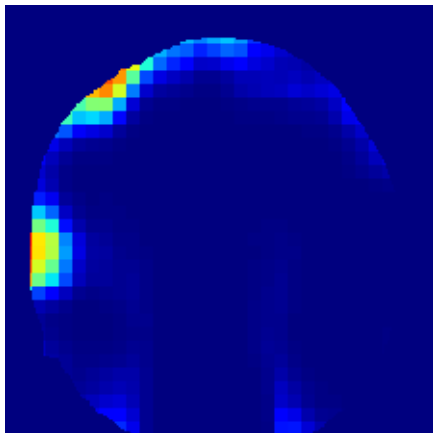
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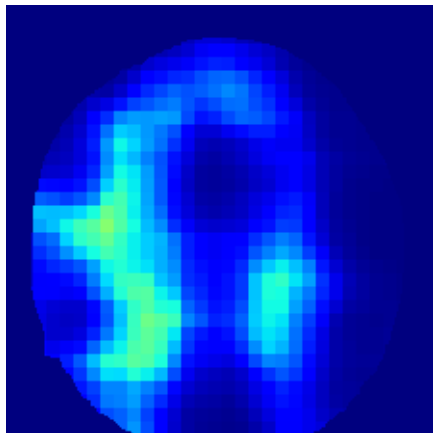
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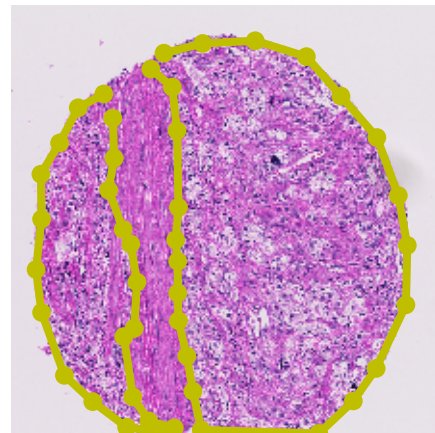
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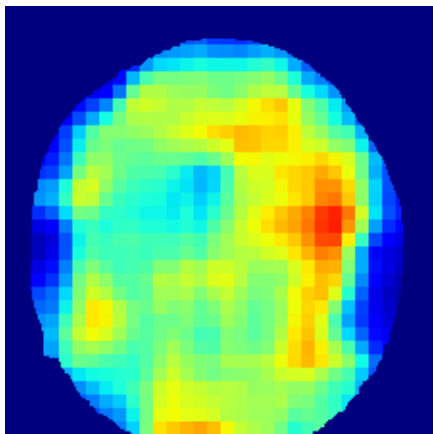
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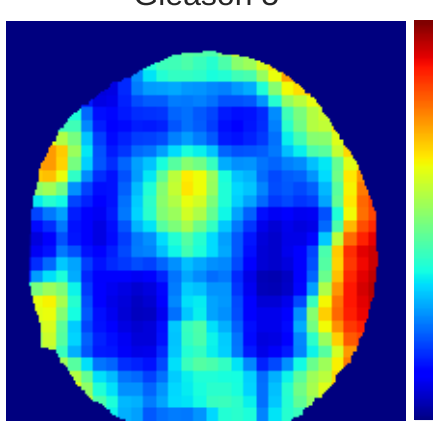
Pathologist 1



Gleason 4



Gleason 5



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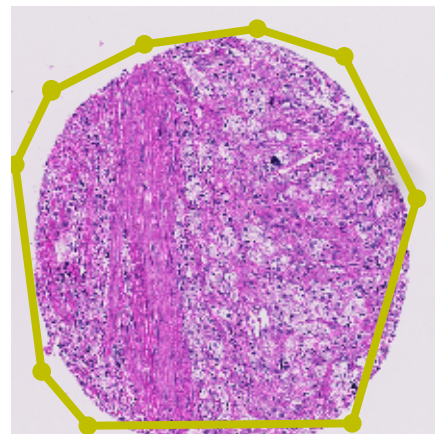
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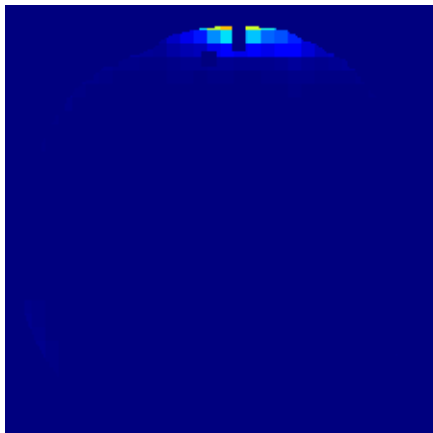
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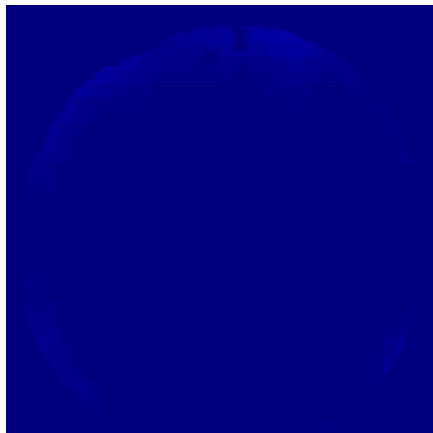
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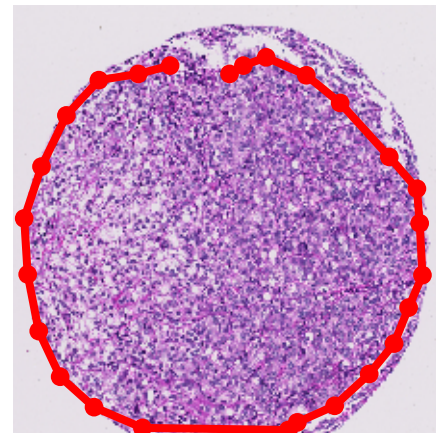
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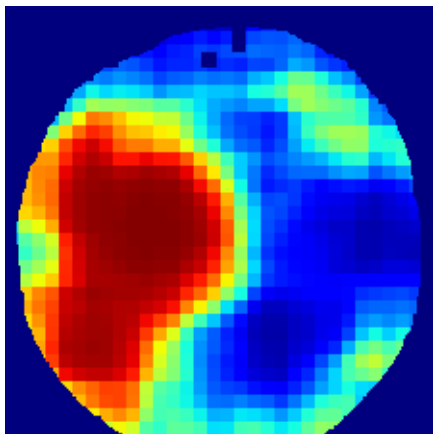
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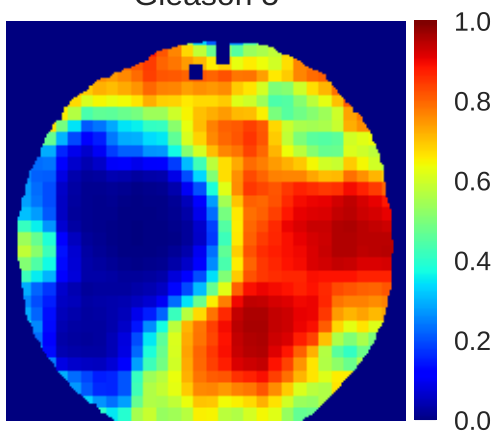
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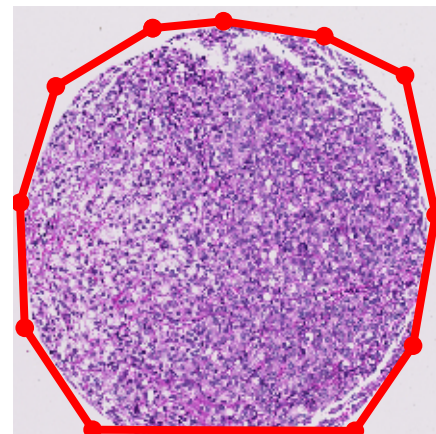
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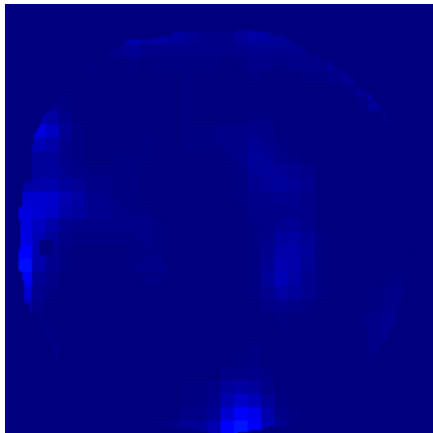
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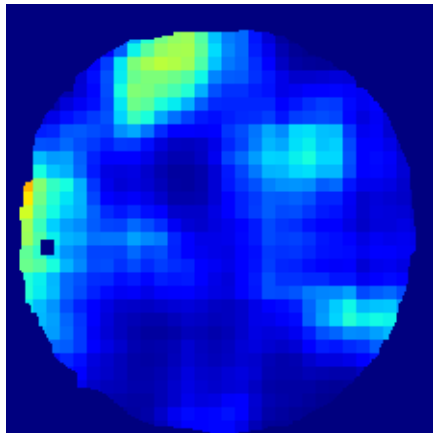
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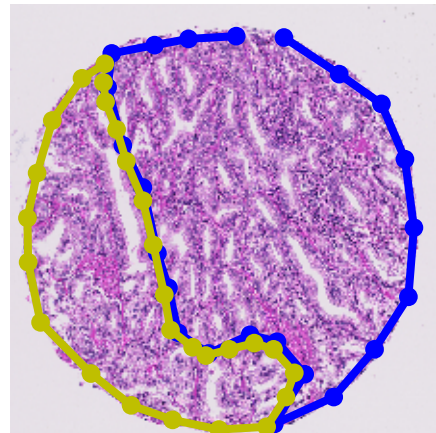
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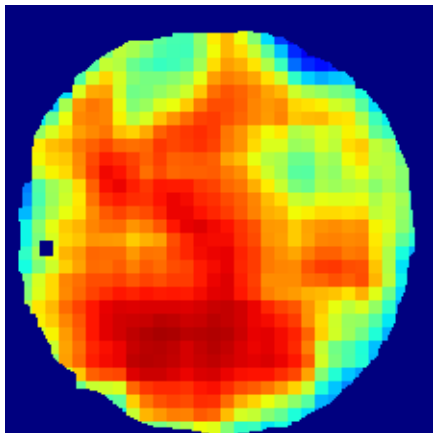
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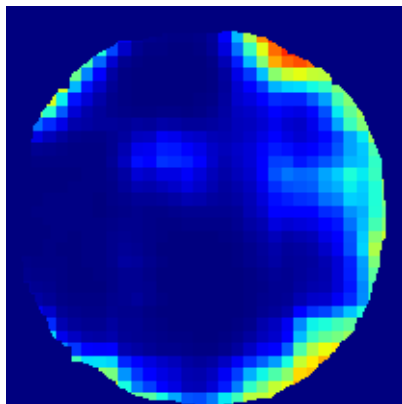
Pathologist 1



Gleason 4



Gleason 5



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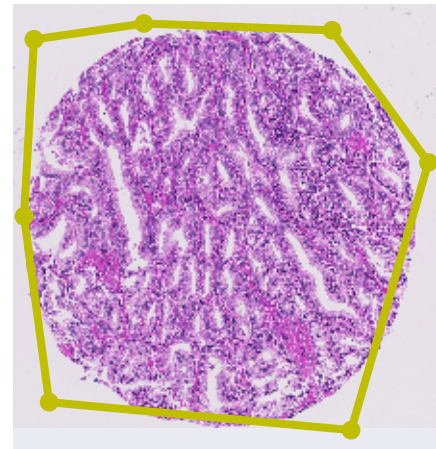
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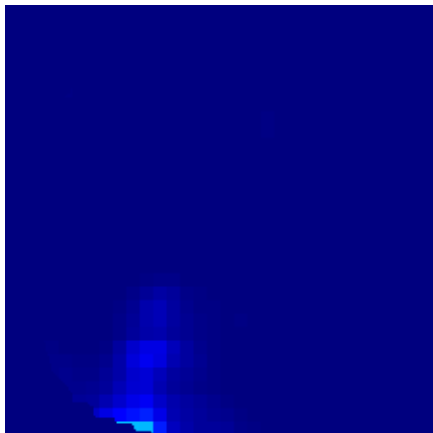
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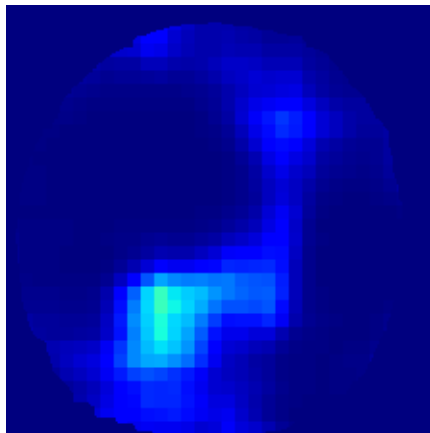
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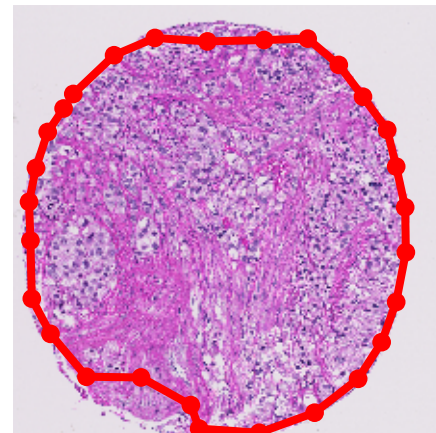
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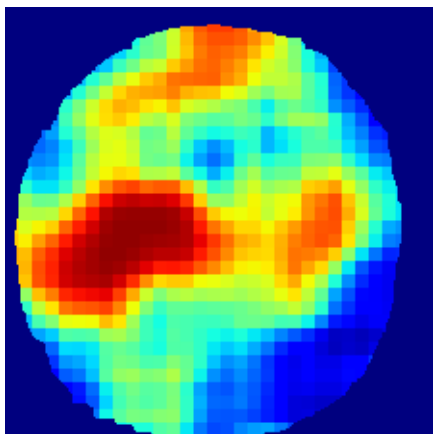
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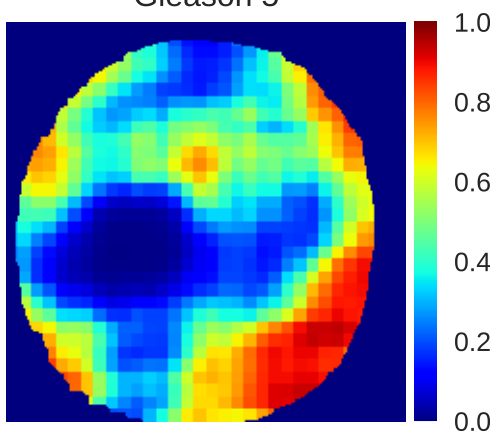
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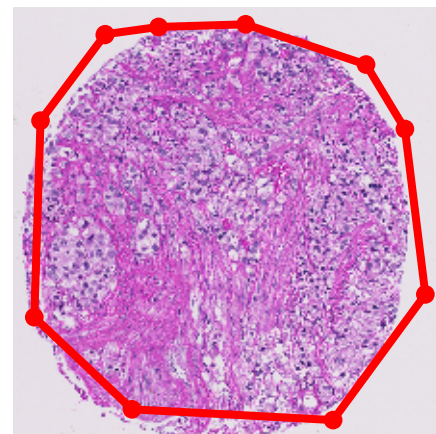
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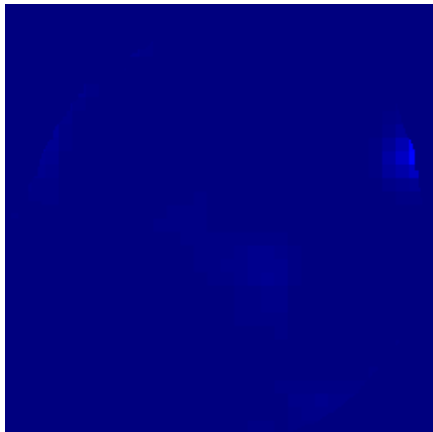
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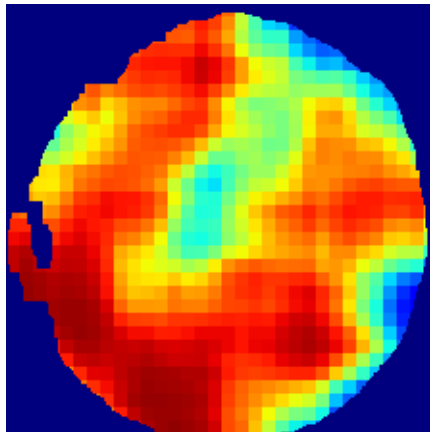
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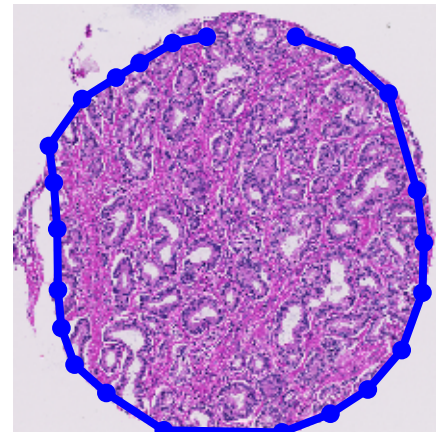
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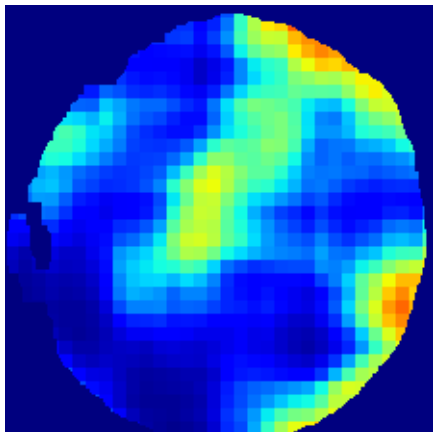
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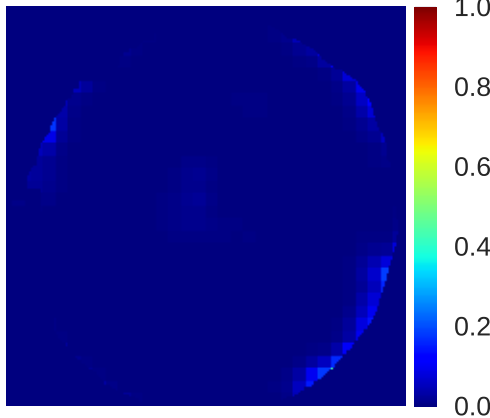
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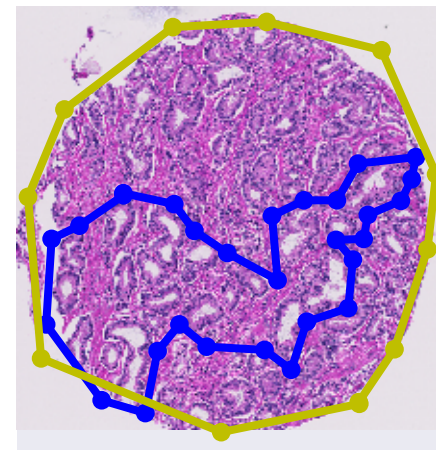
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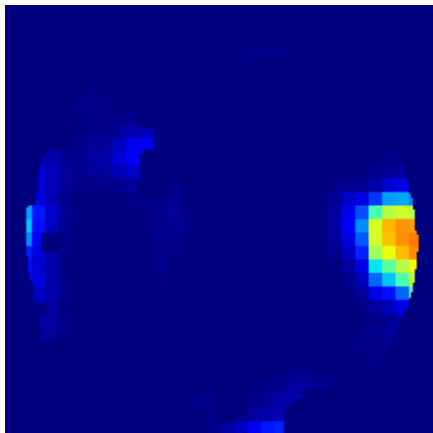
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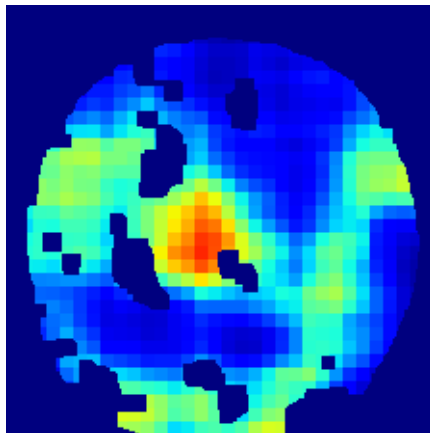
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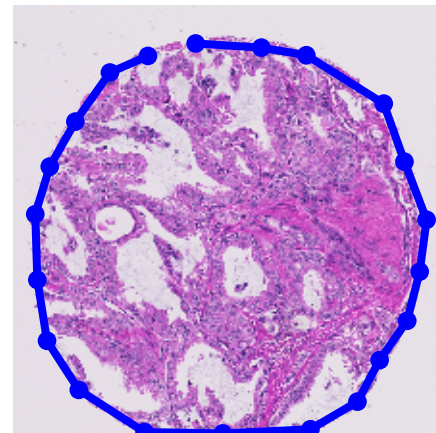
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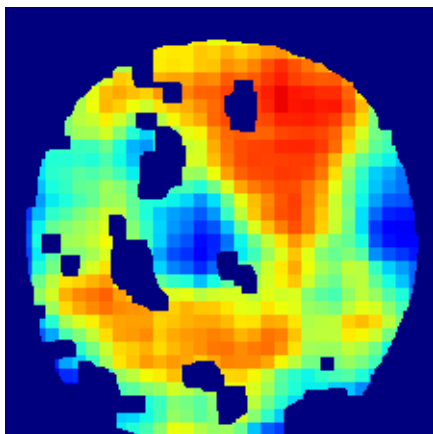
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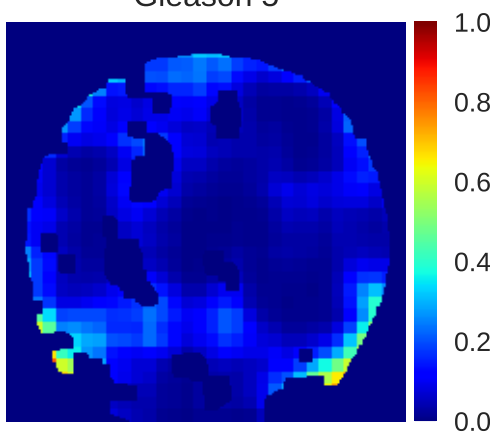
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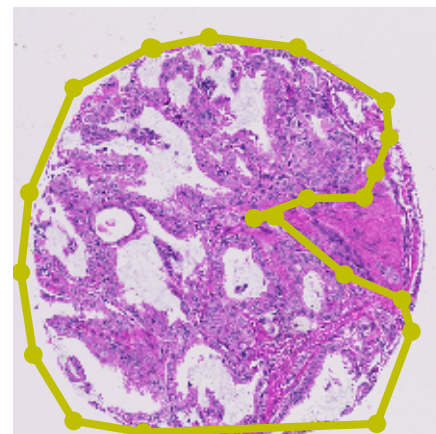
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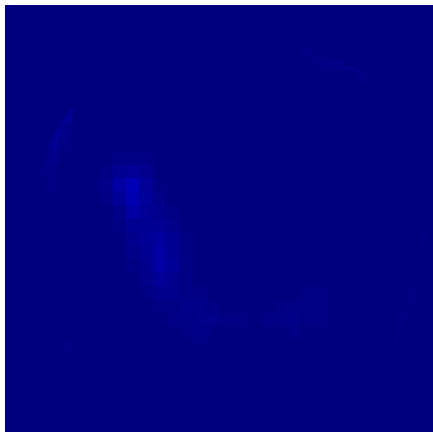
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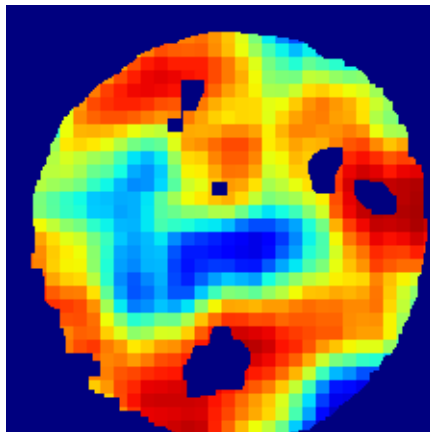
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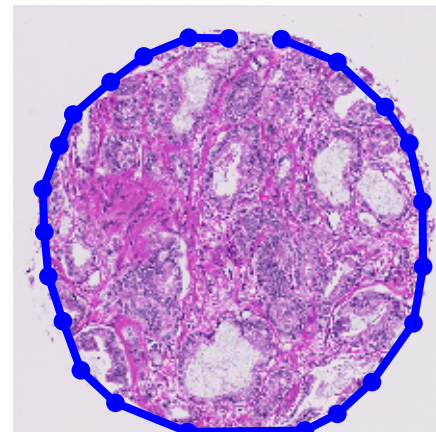
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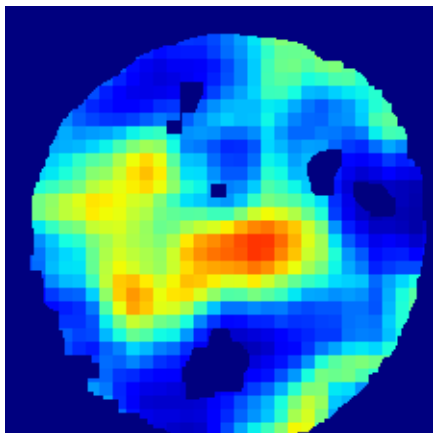
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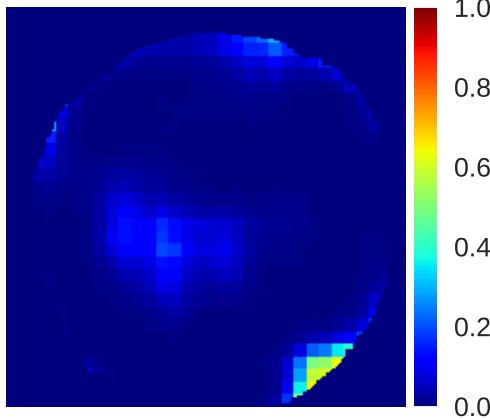
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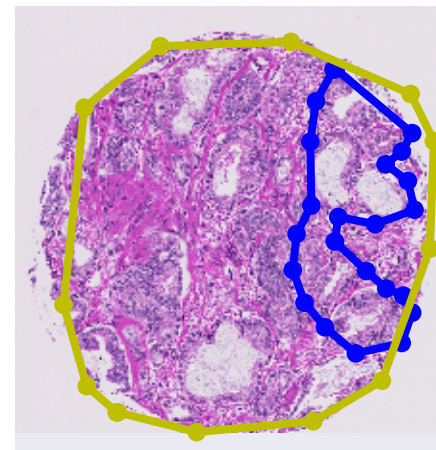
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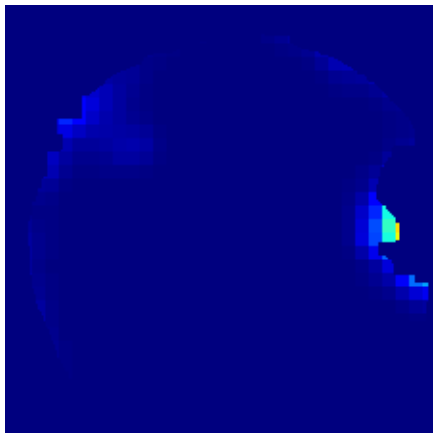
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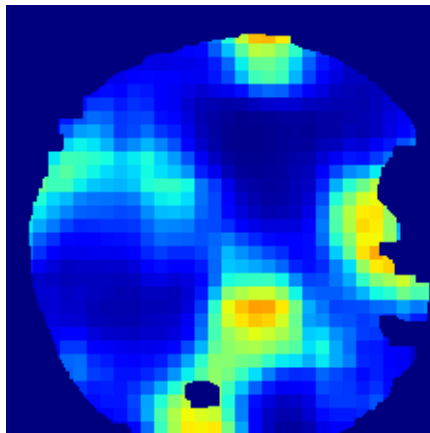
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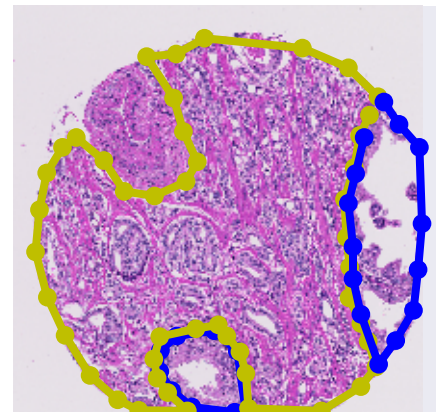
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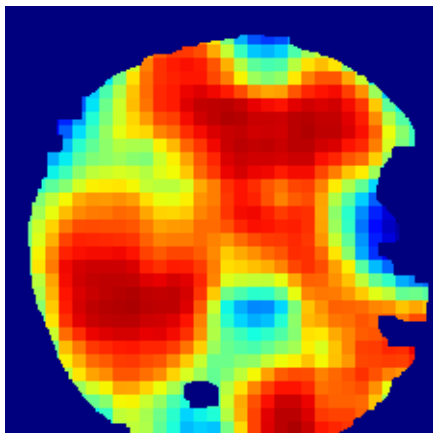
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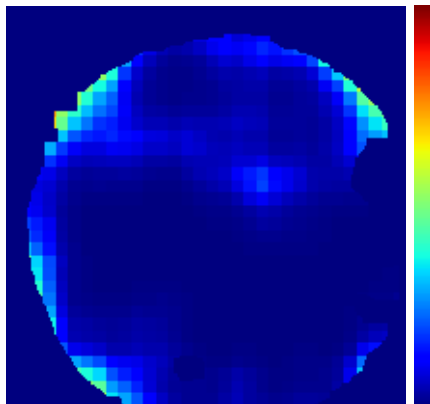
Pathologist 1



Gleason 4



Gleason 5



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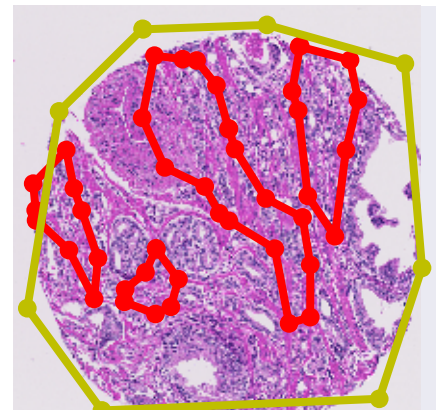
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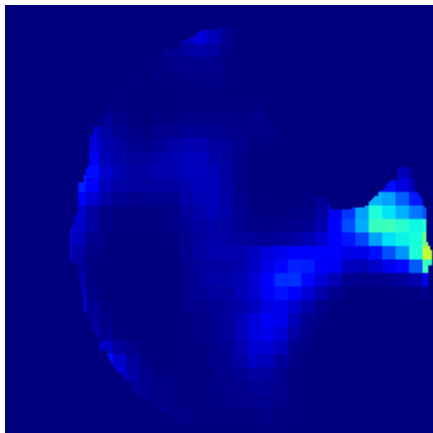
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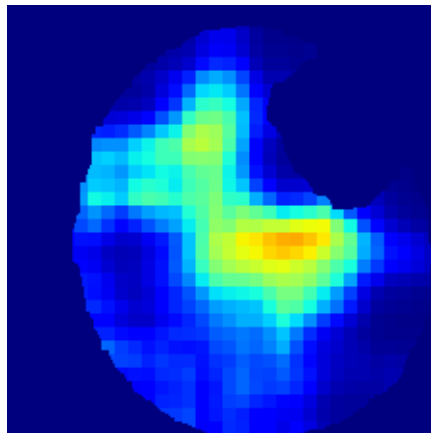
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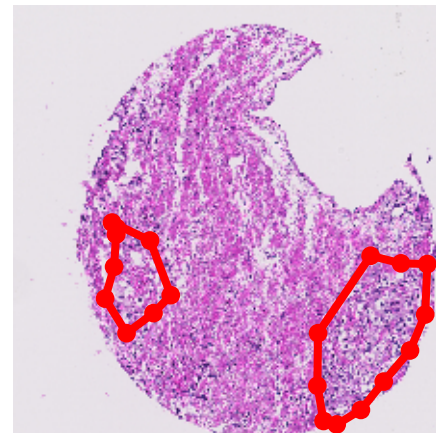
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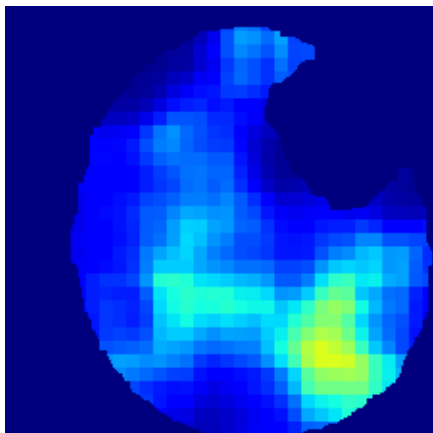
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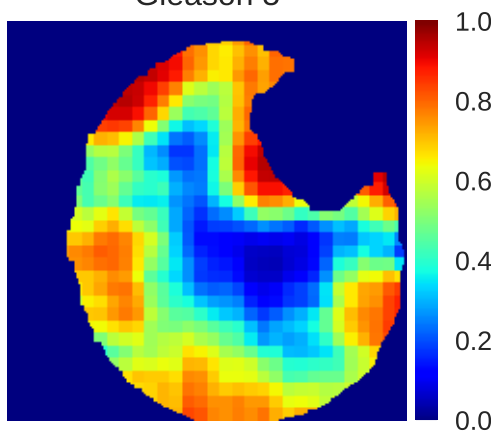
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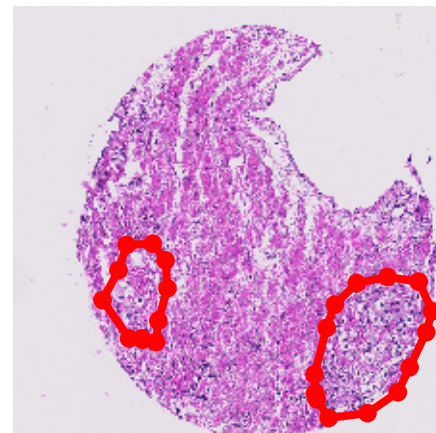
Gleason 4



Gleason 5



Pathologist 2



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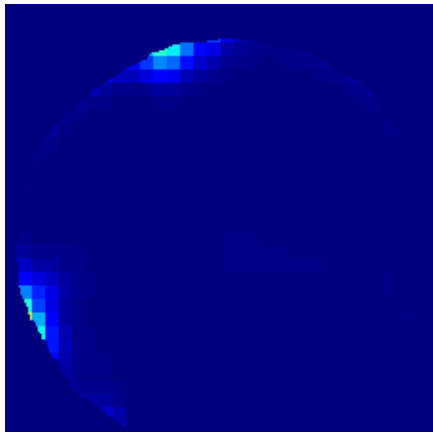
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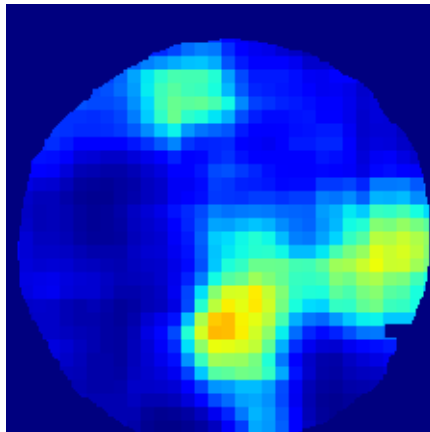
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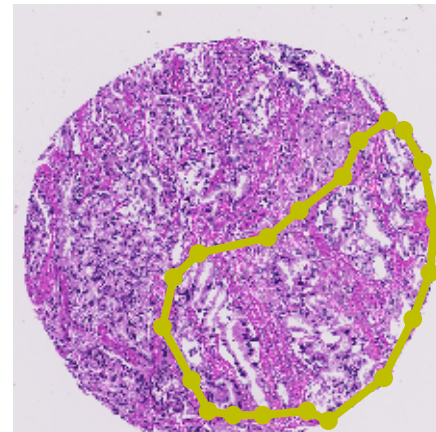
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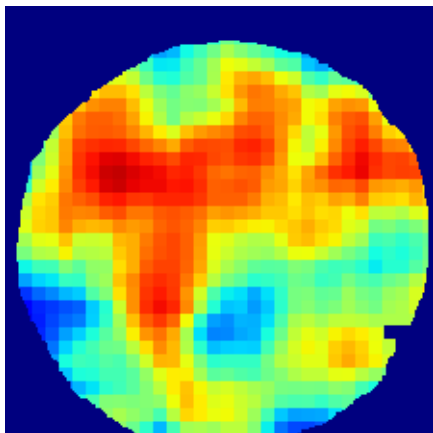
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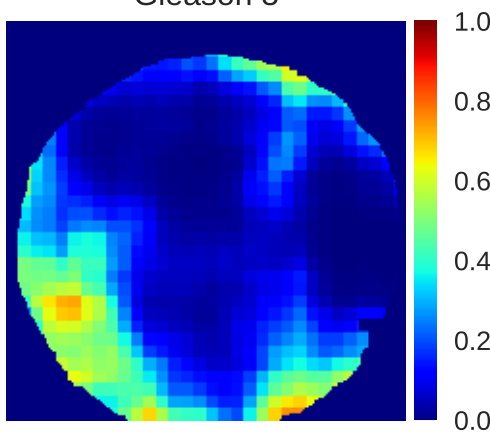
Pathologist 1



Gleason 4



Gleason 5



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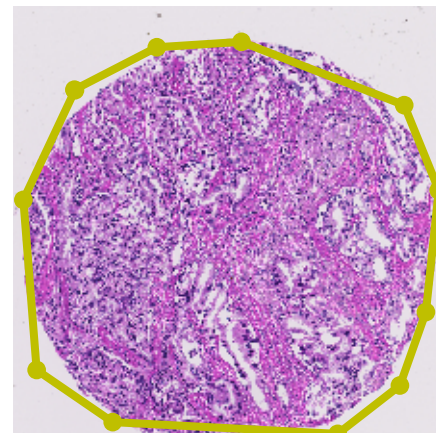
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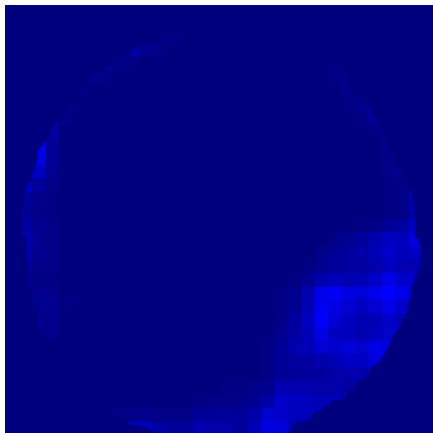
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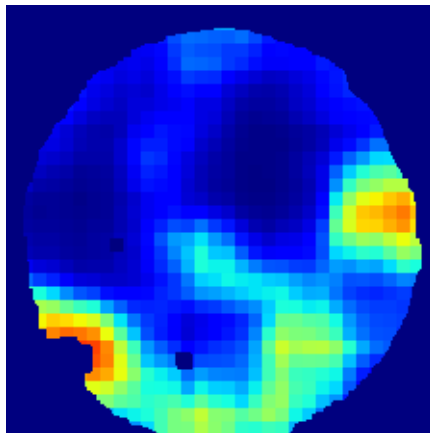
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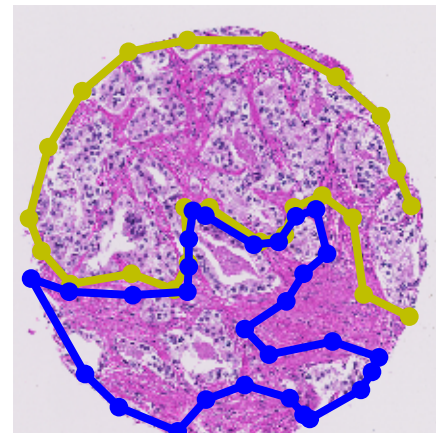
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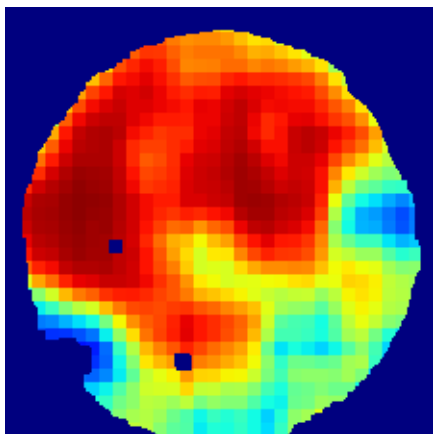
Gleason 3



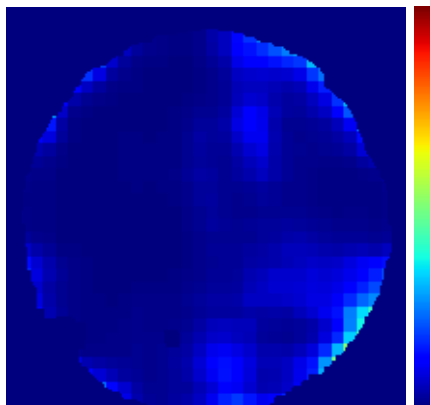
Pathologist 1



Gleason 4



Gleason 5



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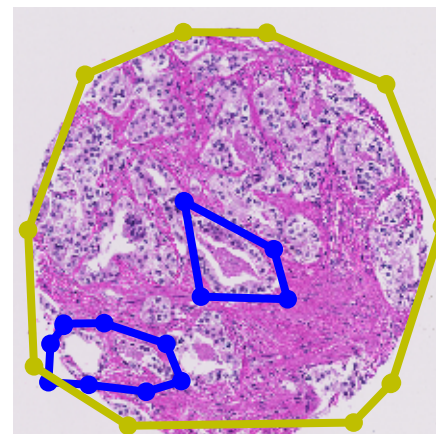
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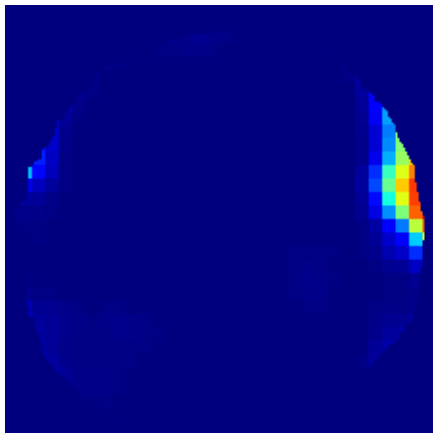
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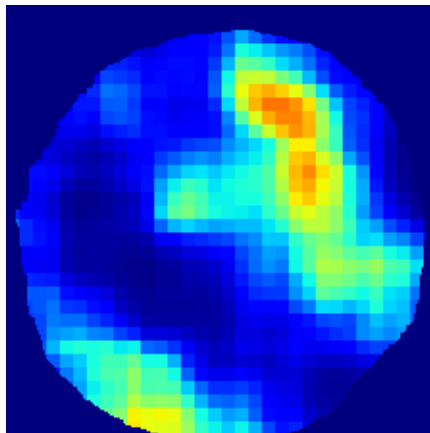
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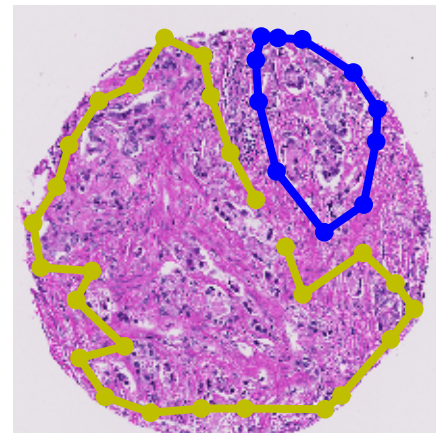
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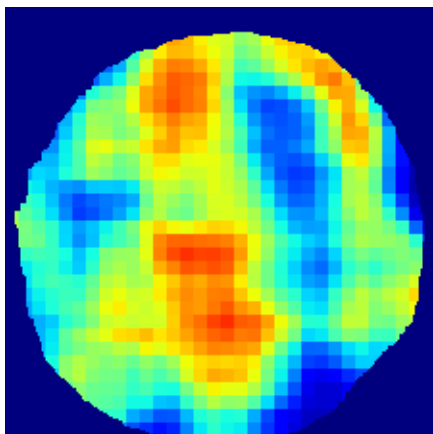
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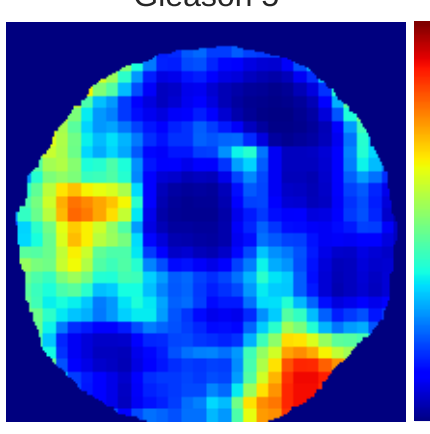
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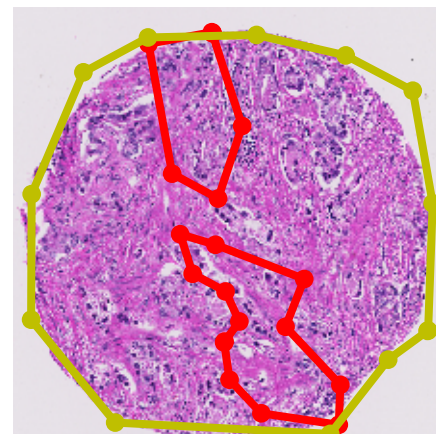
Gleason 4



Gleason 5



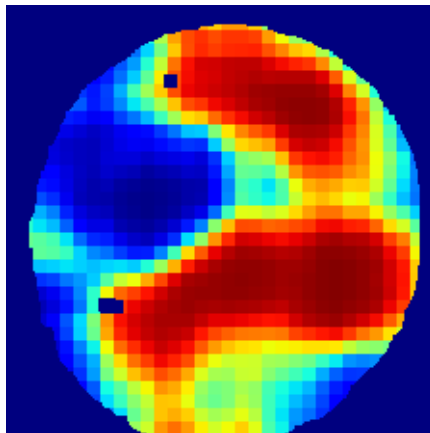
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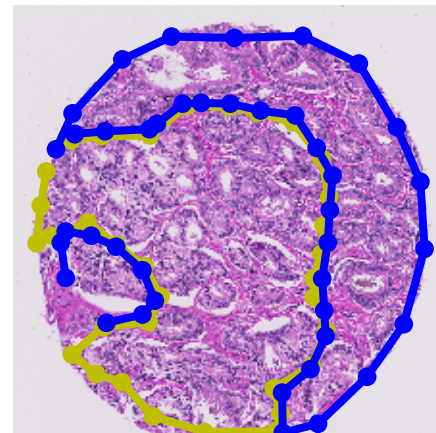
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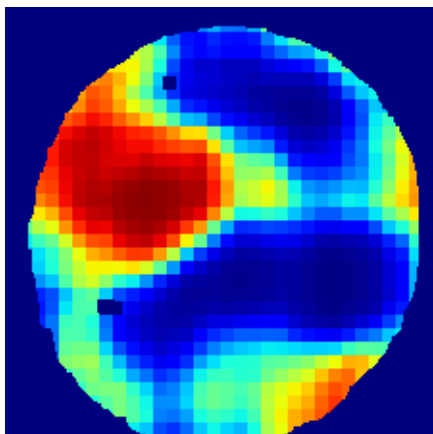
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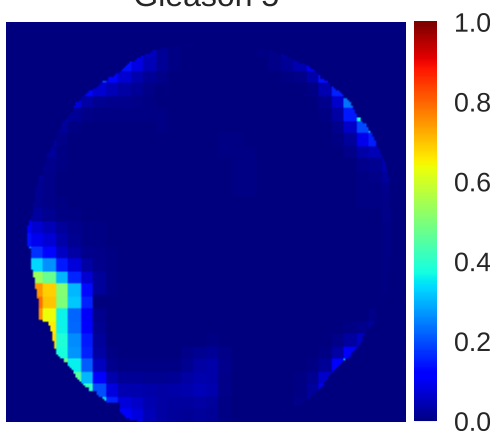
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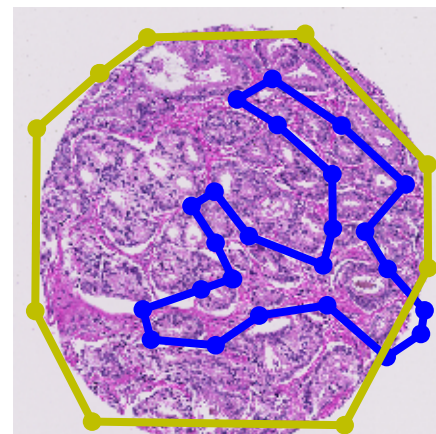
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Gleason 5



Pathologist 2



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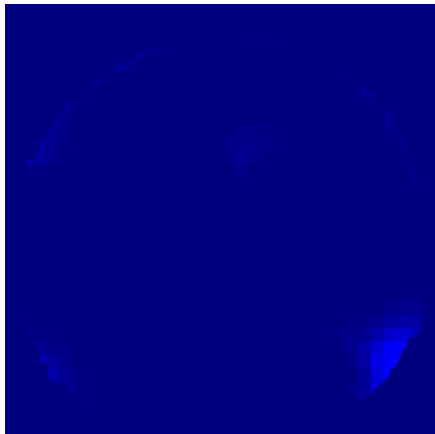
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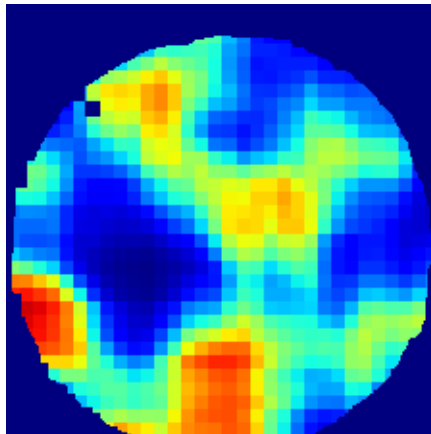
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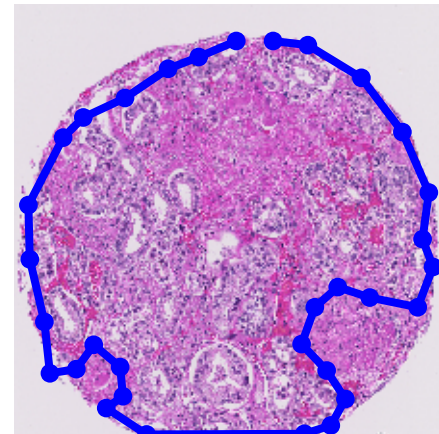
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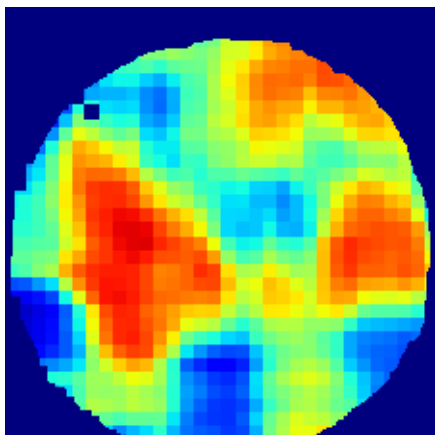
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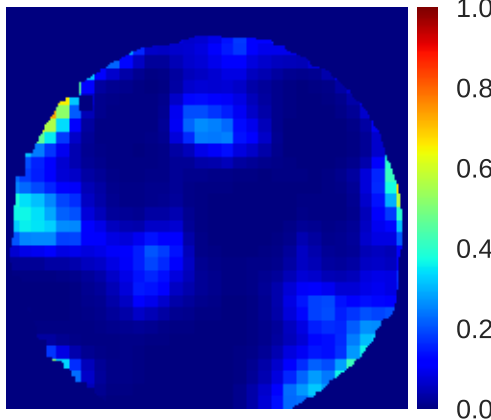
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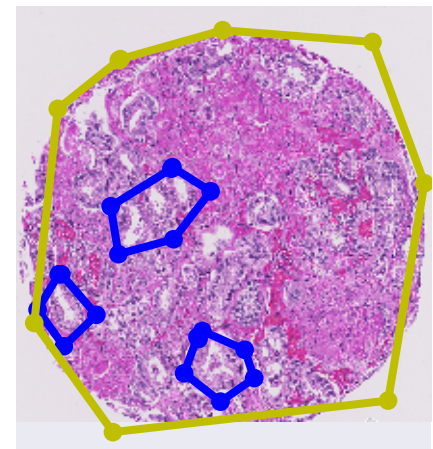
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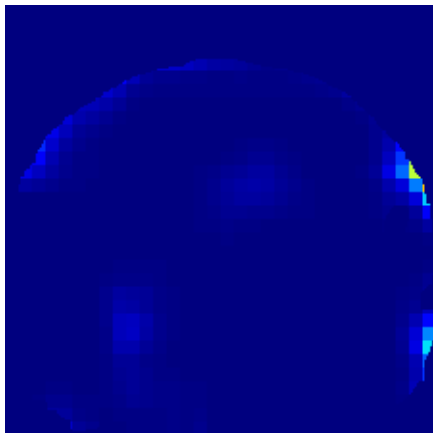
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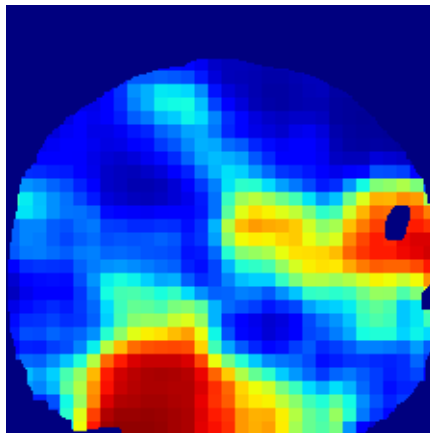
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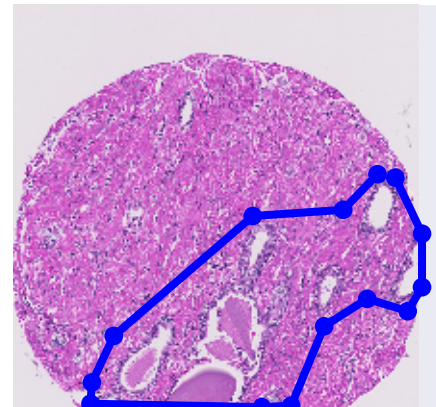
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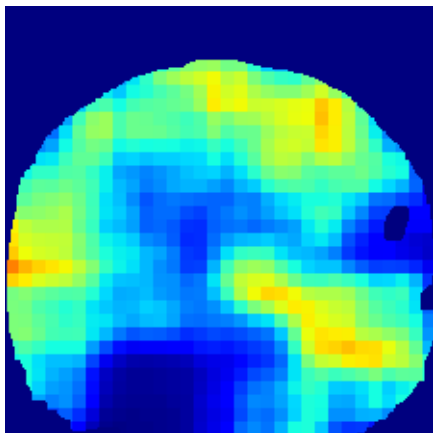
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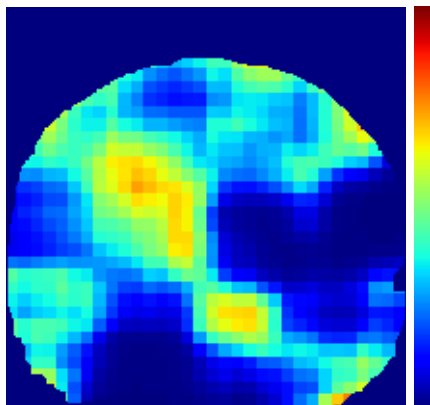
Pathologist 1



Gleason 4



Gleason 5



1.0

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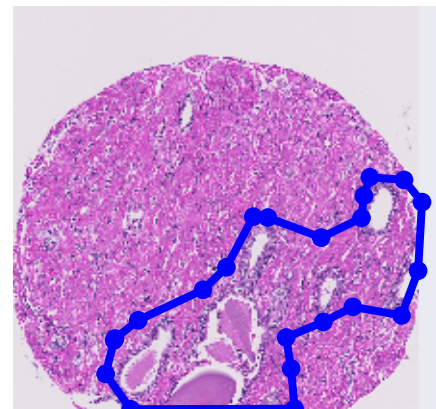
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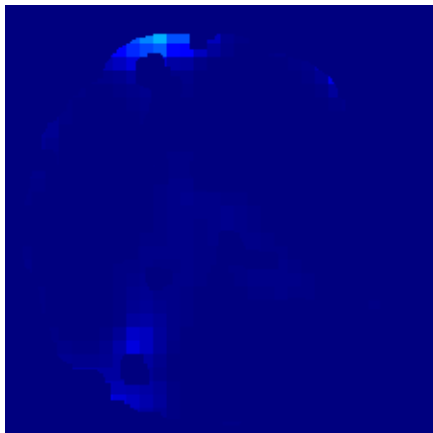
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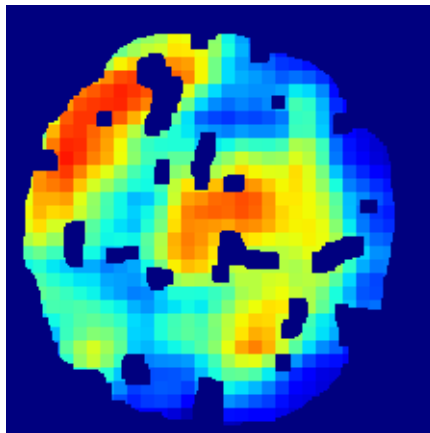
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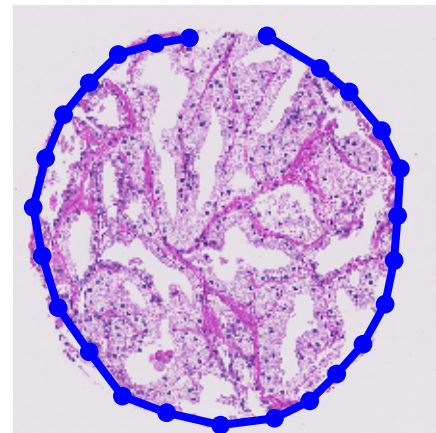
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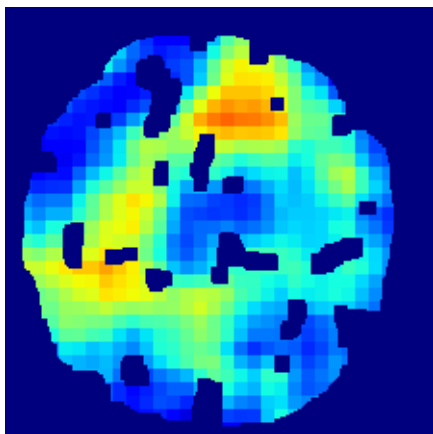
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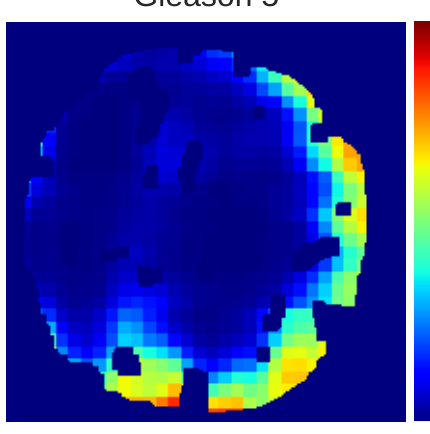
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Gleason 4



Gleason 5



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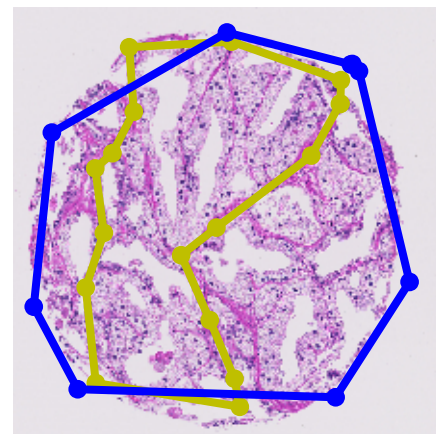
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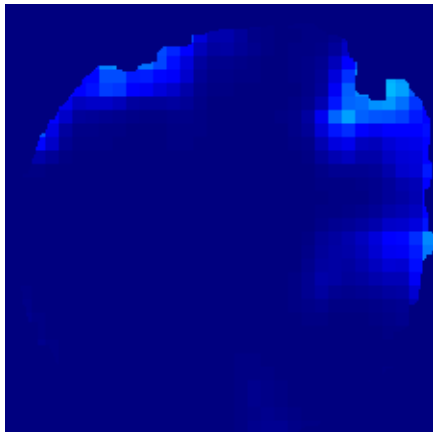
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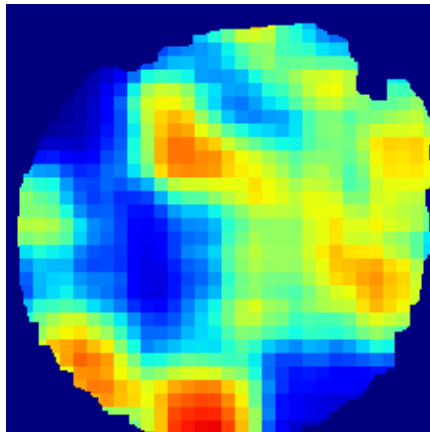
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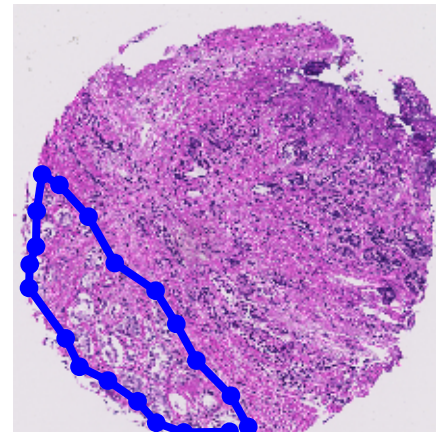
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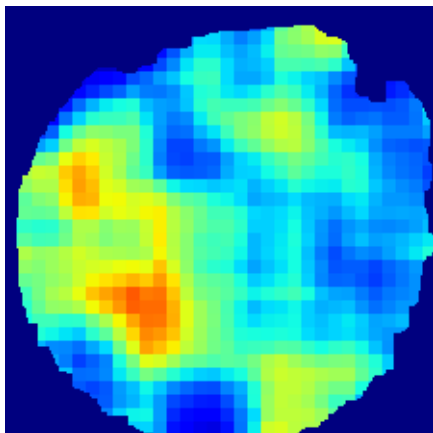
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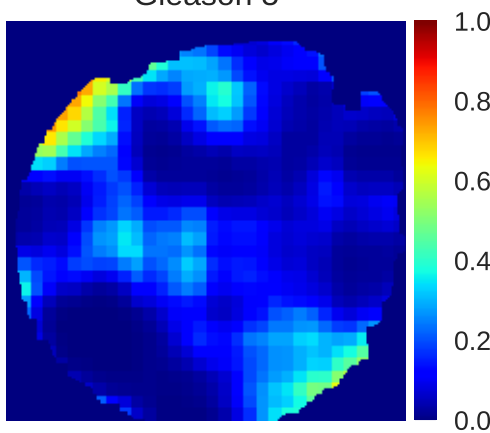
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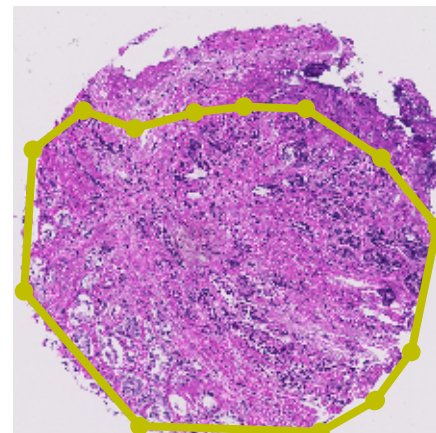
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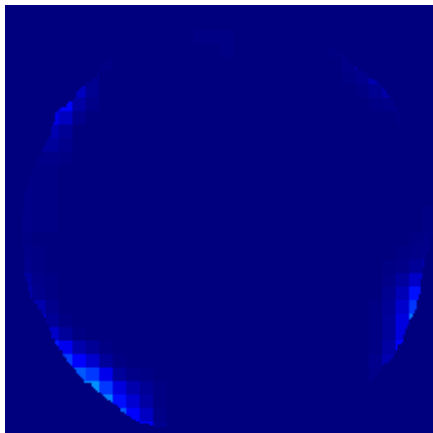
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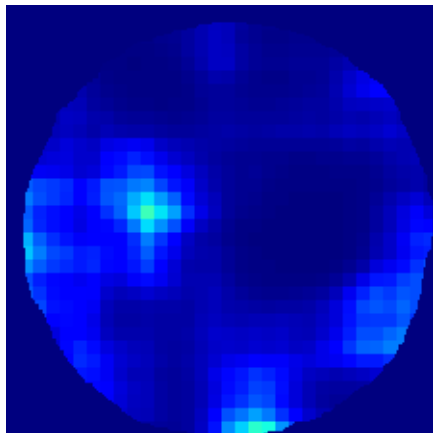
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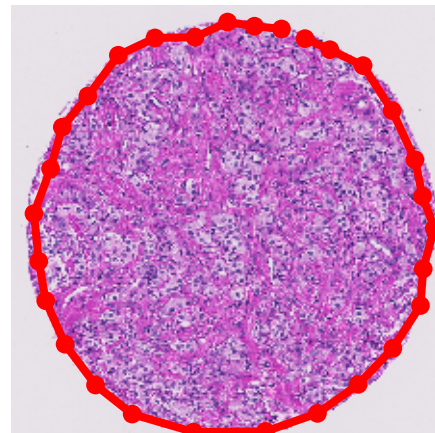
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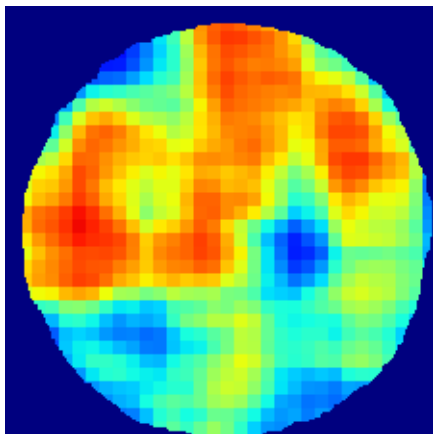
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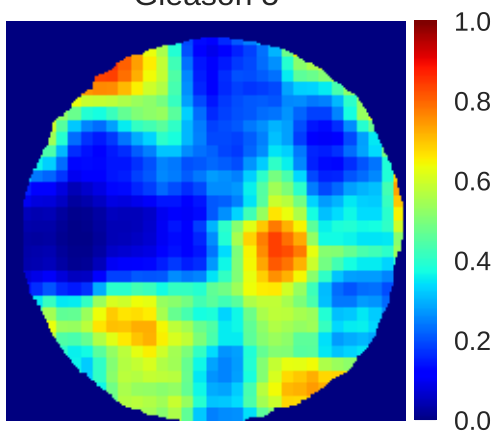
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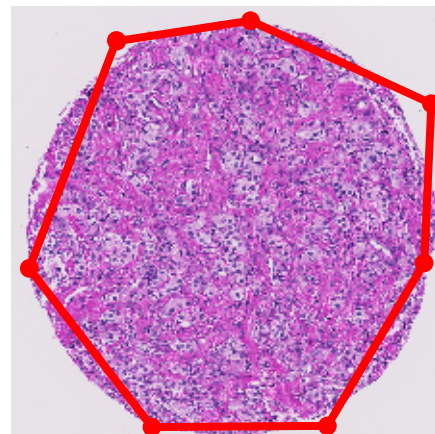
Gleason 4



Gleason 5



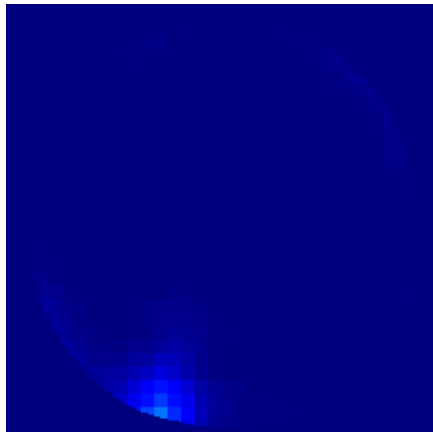
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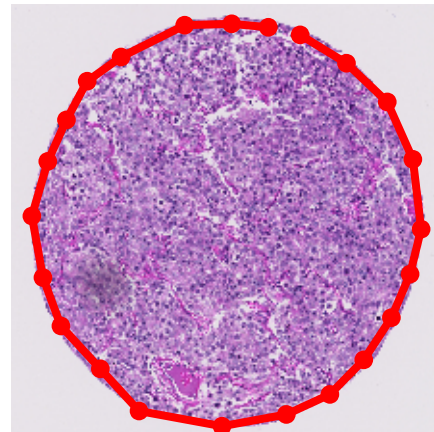
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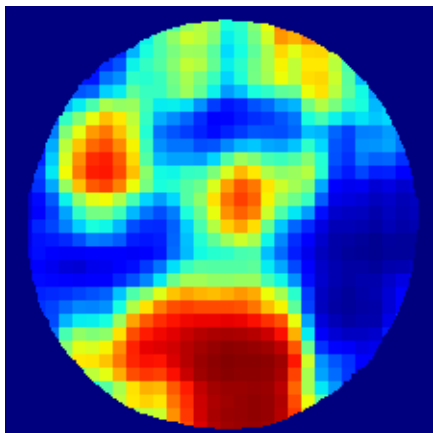
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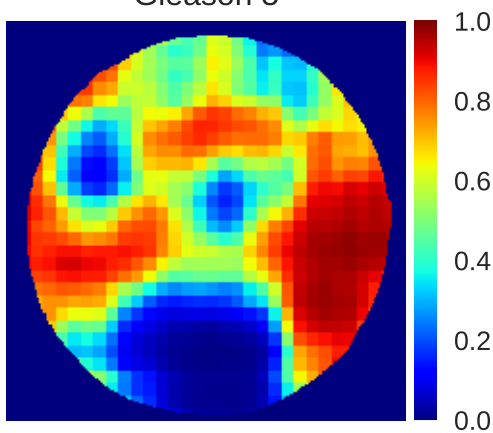
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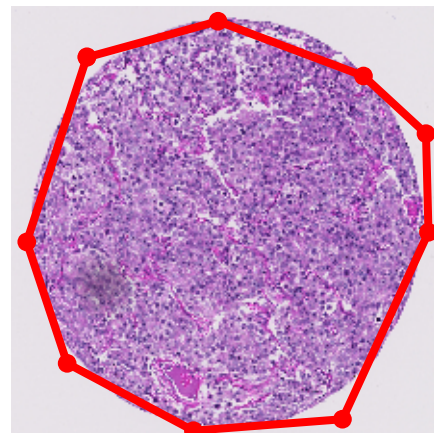
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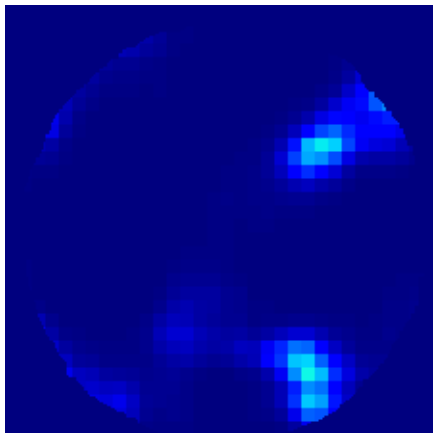
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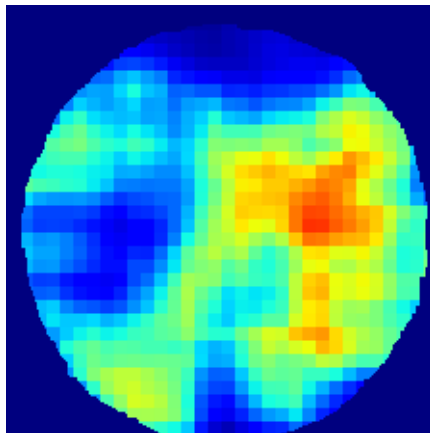
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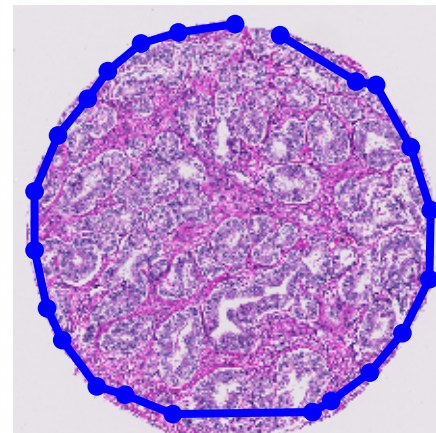
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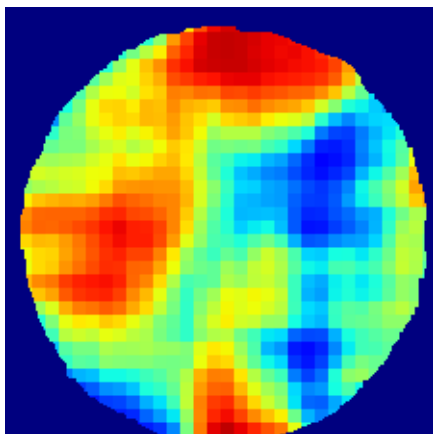
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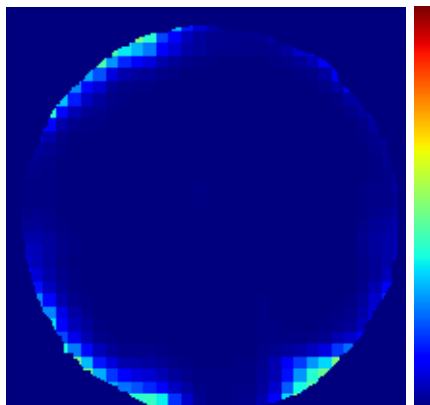
Pathologist 1



Gleason 4



Gleason 5



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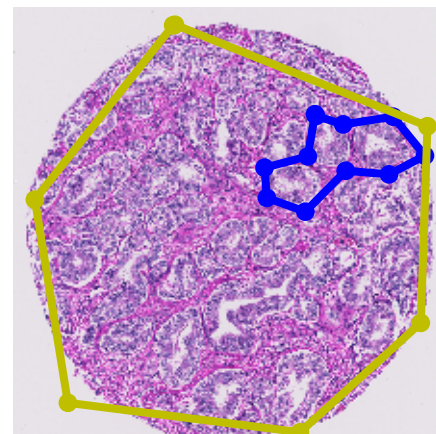
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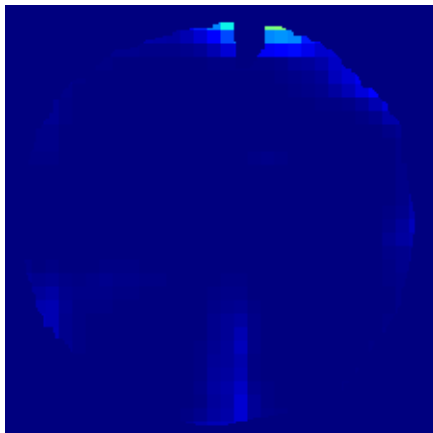
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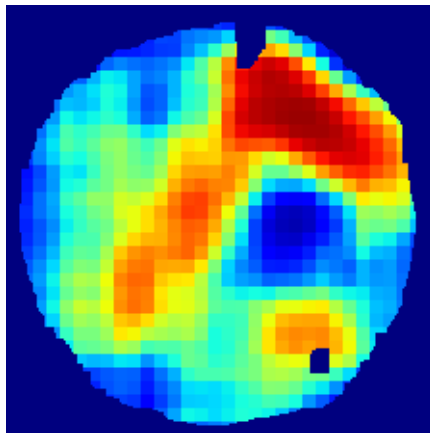
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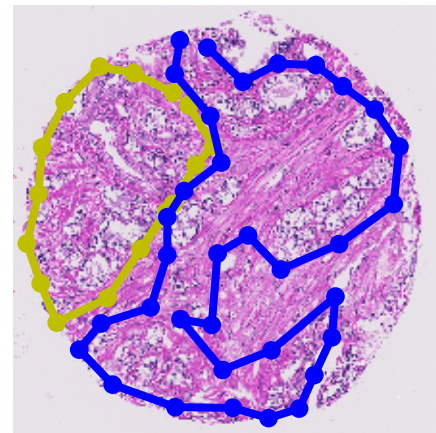
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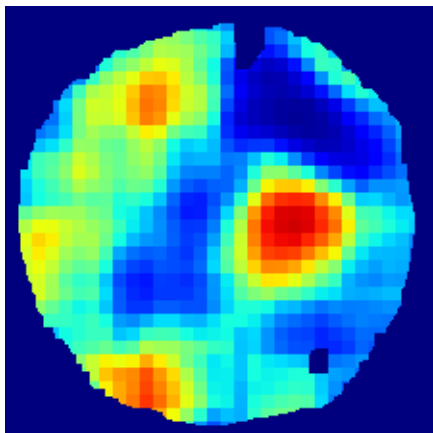
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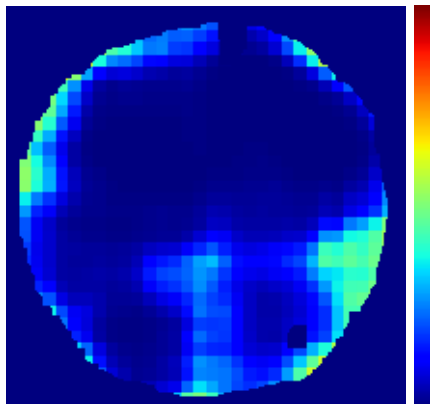
Pathologist 1



Gleason 4



Gleason 5



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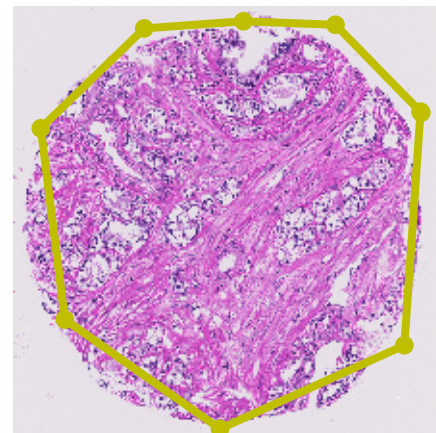
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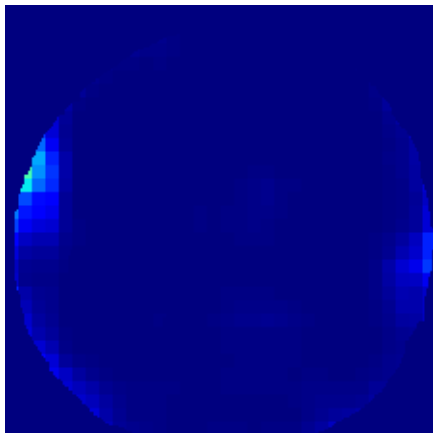
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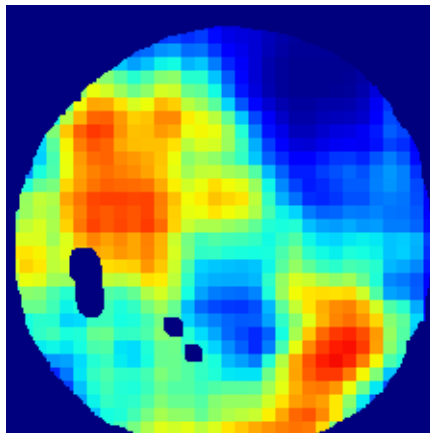
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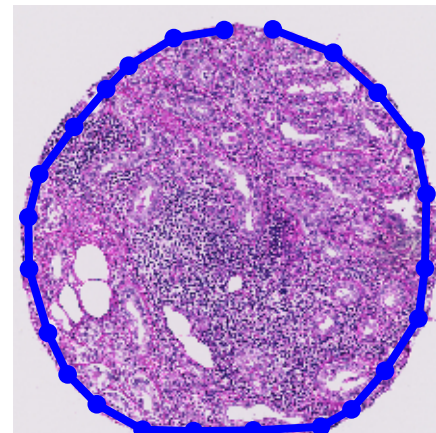
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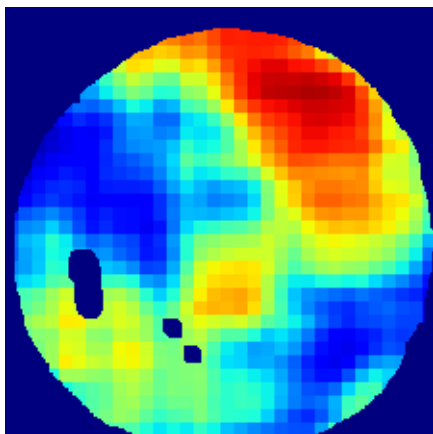
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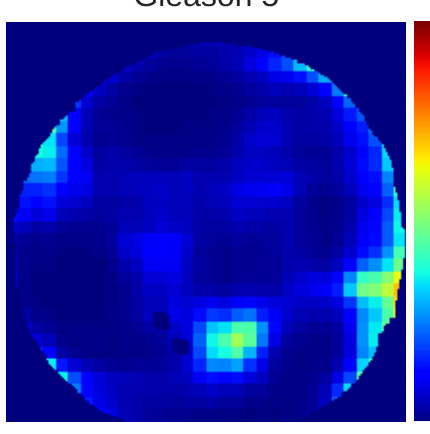
Pathologist 1



Gleason 4



Gleason 5



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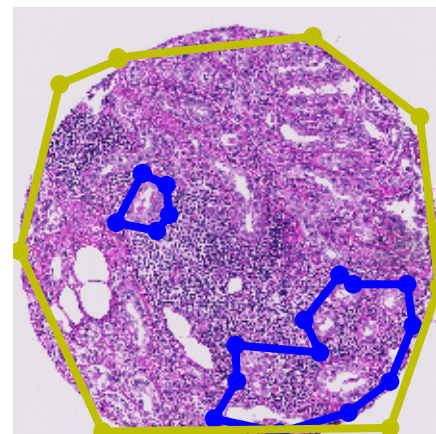
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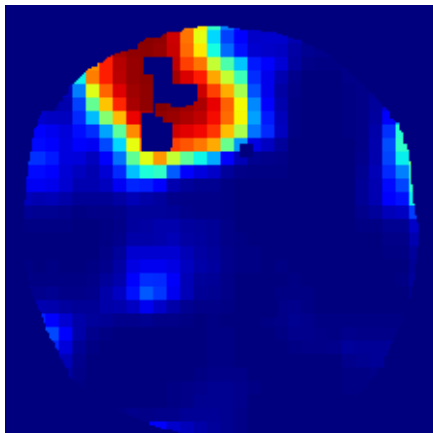
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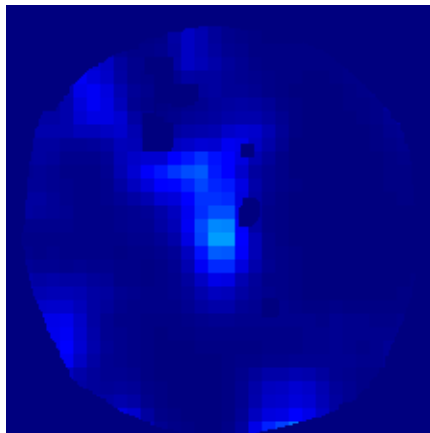
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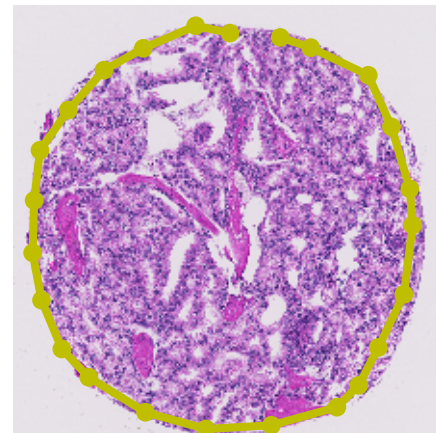
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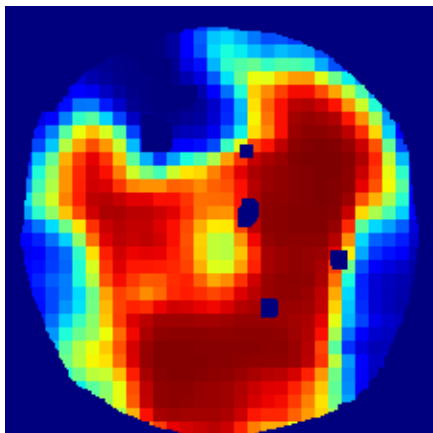
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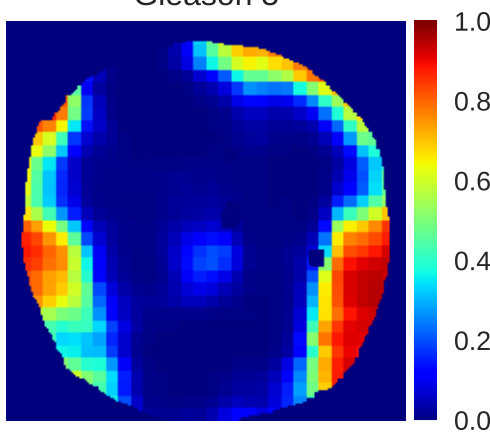
Pathologist 1



Gleason 4



Gleason 5



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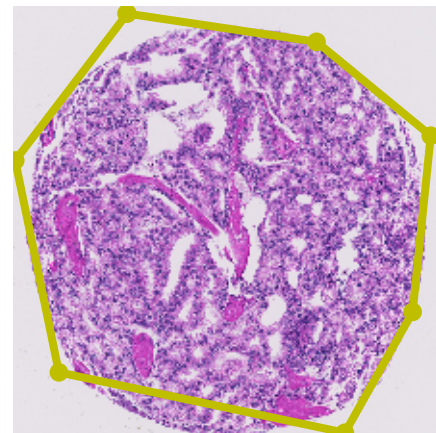
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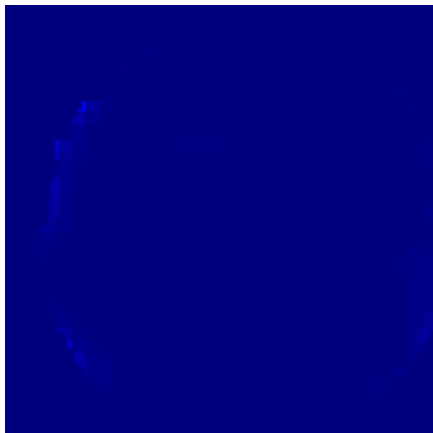
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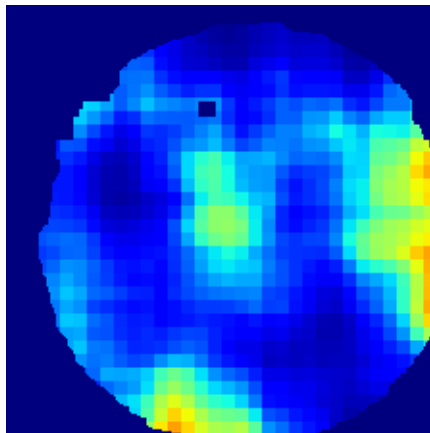
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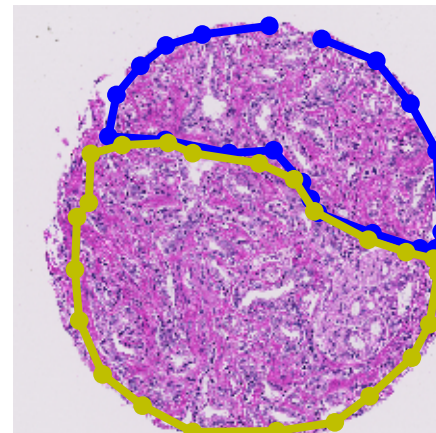
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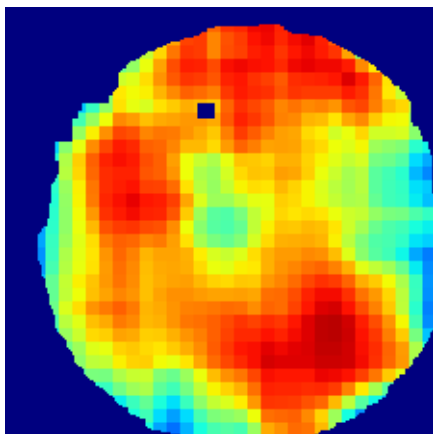
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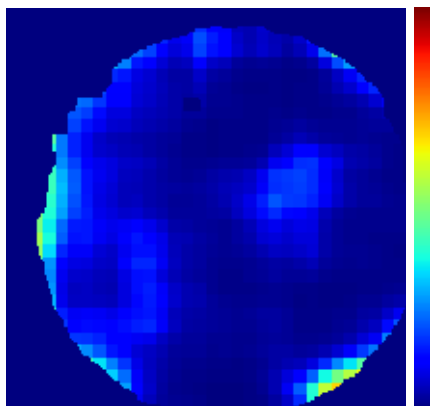
Pathologist 1



Gleason 4



Gleason 5



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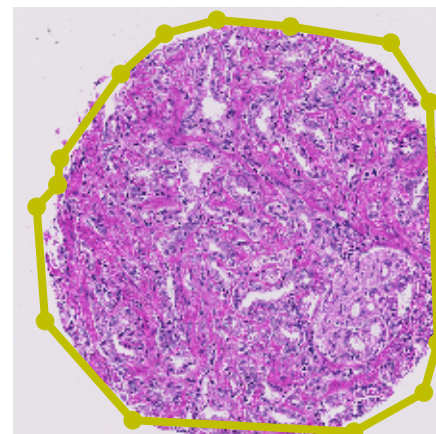
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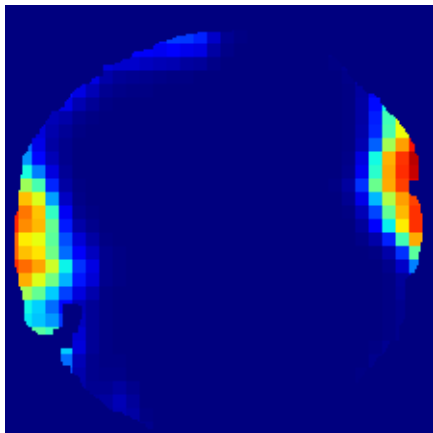
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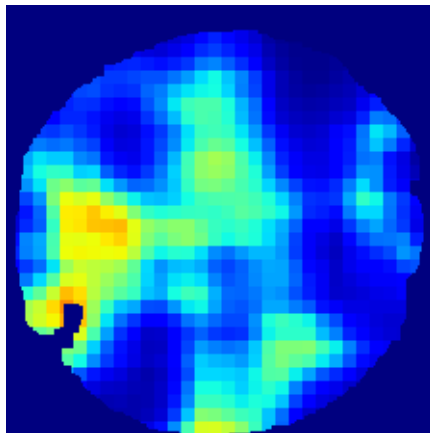
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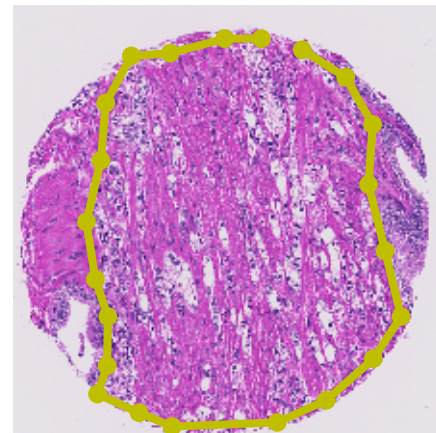
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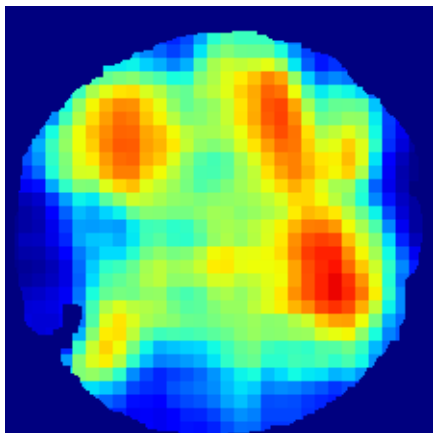
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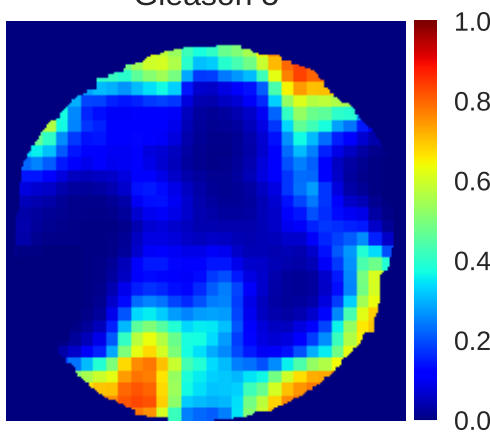
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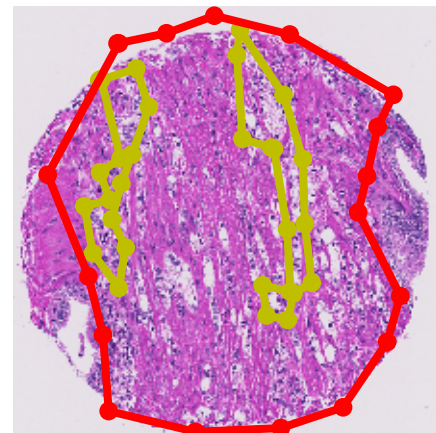
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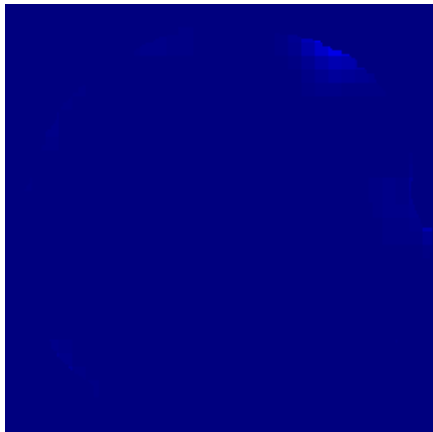
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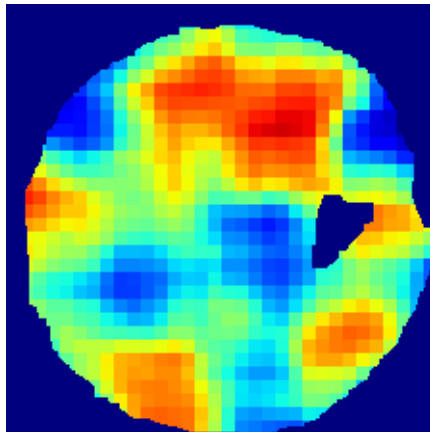
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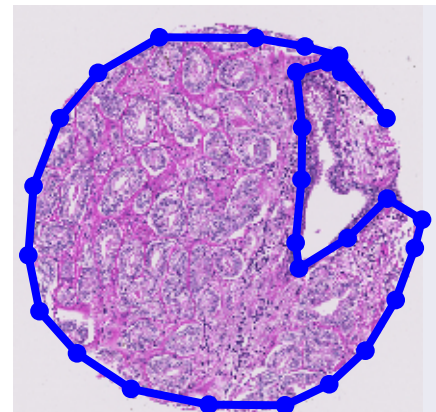
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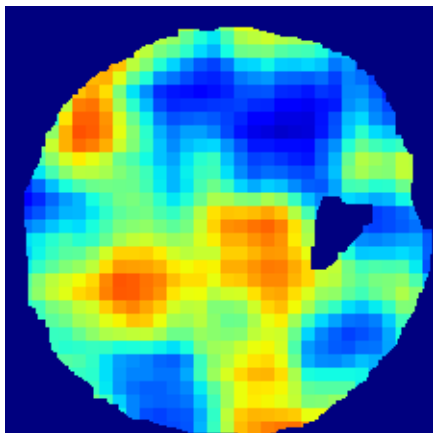
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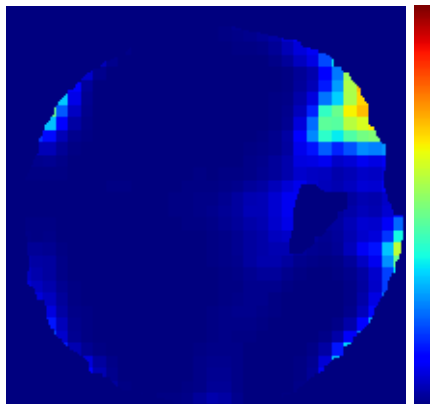
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Gleason 4



Gleason 5



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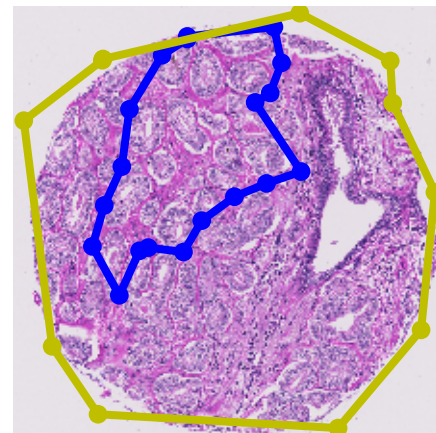
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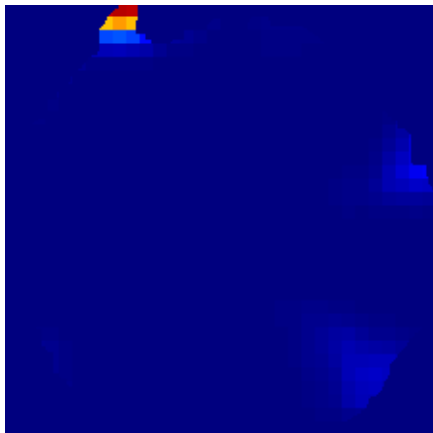
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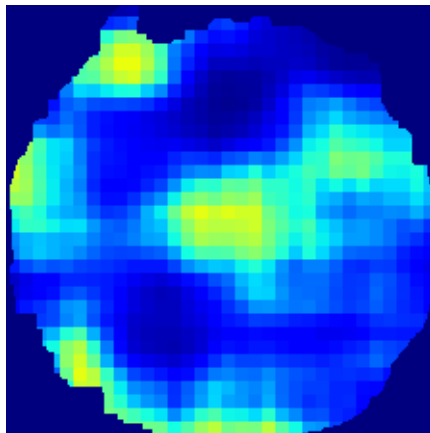
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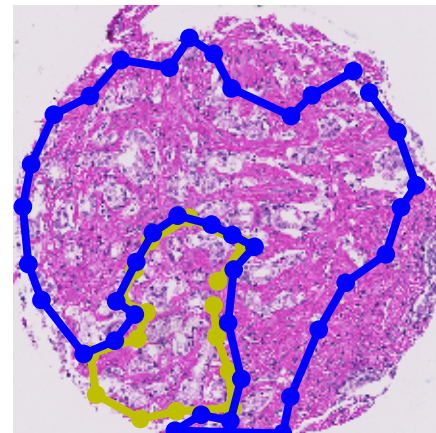
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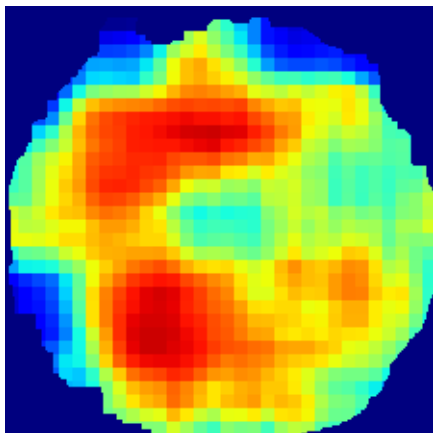
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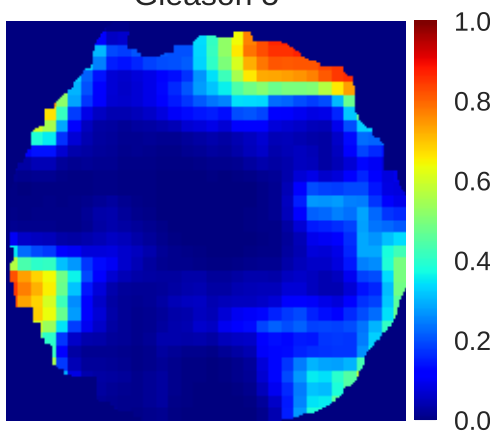
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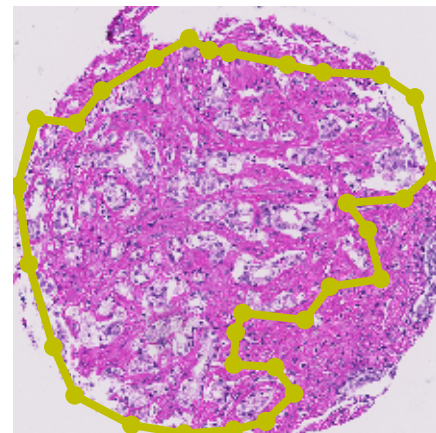
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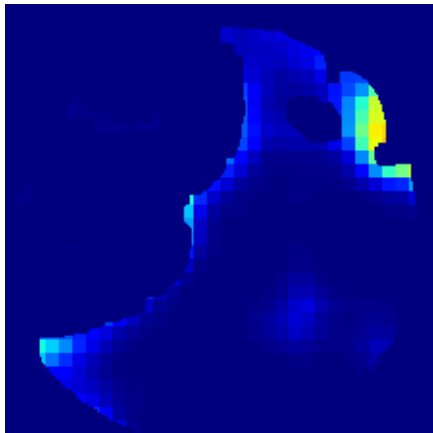
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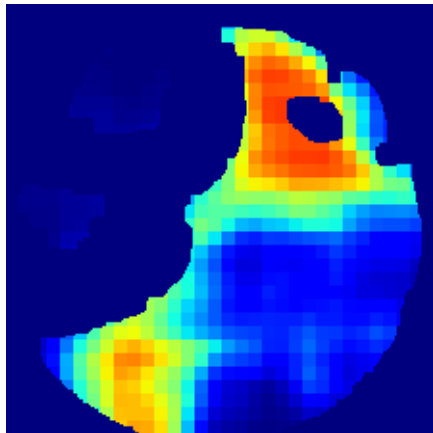
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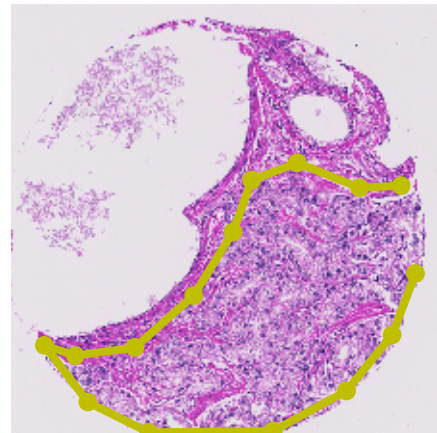
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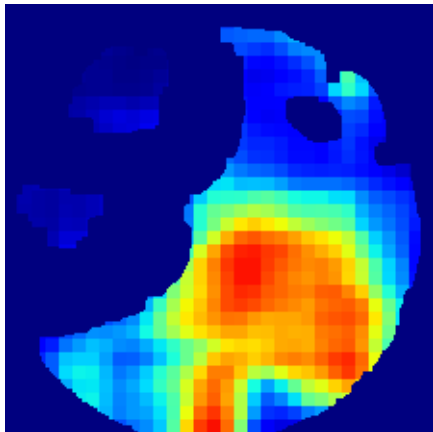
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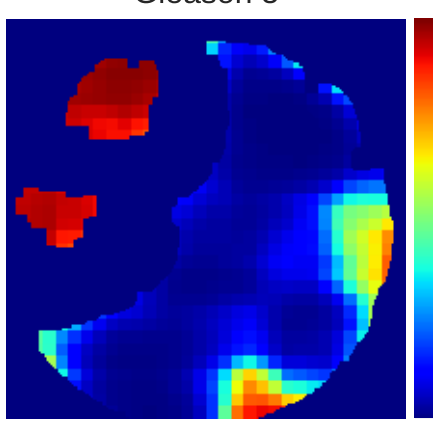
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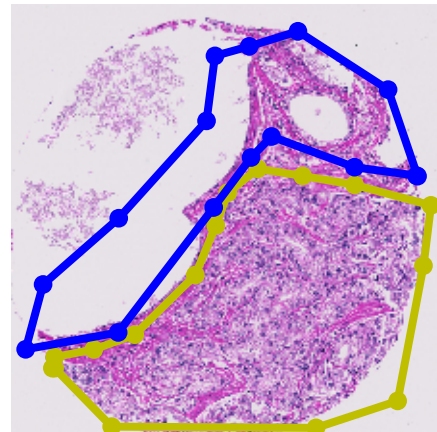
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Gleason 5



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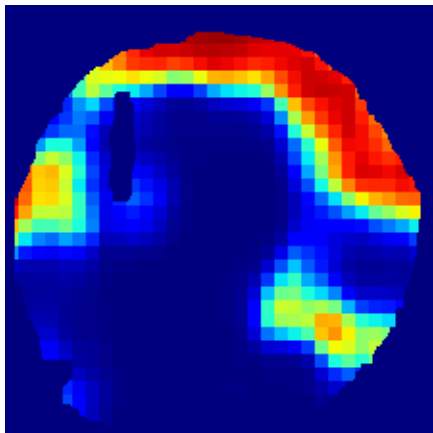
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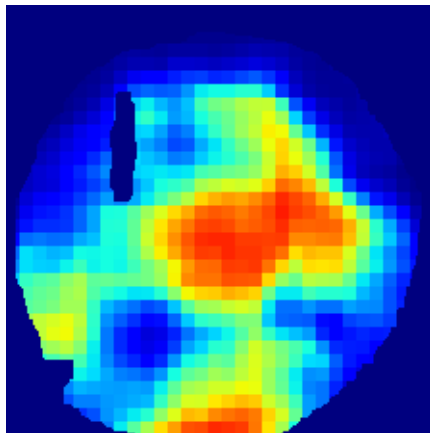
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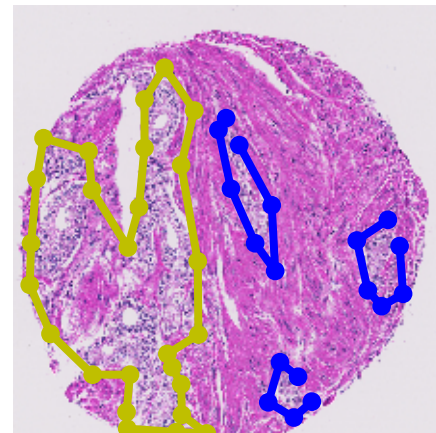
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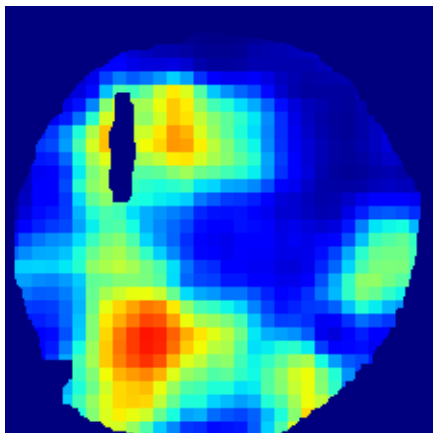
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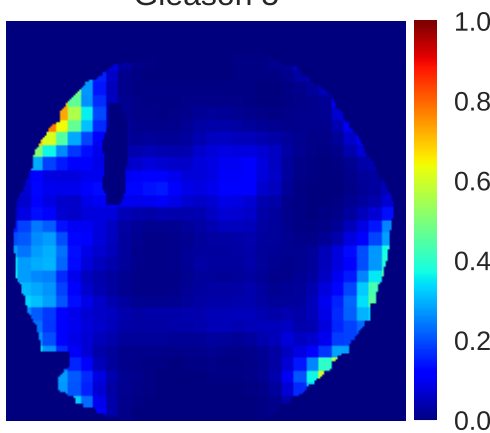
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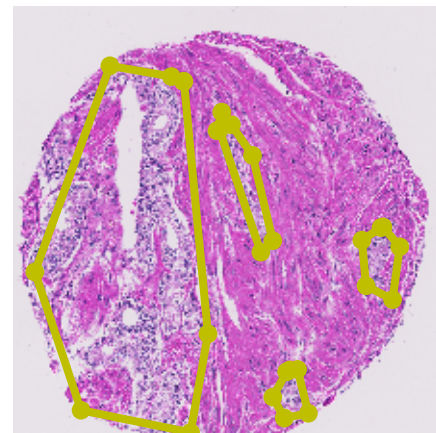
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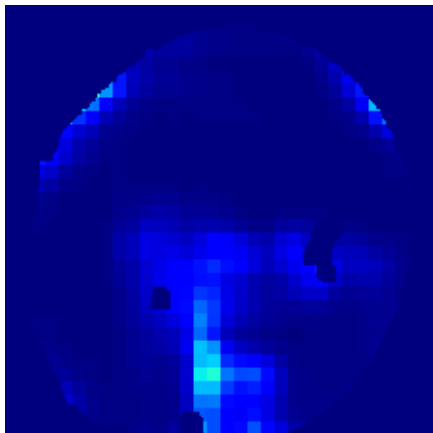
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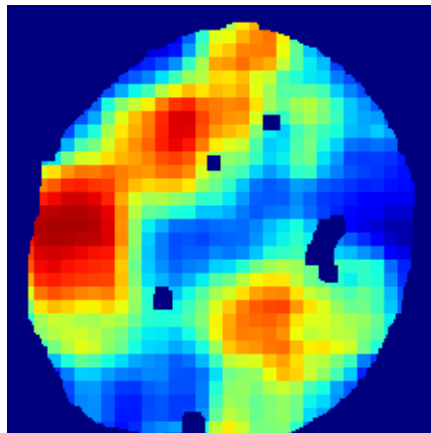
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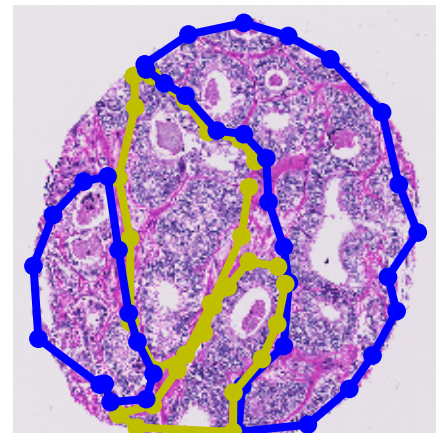
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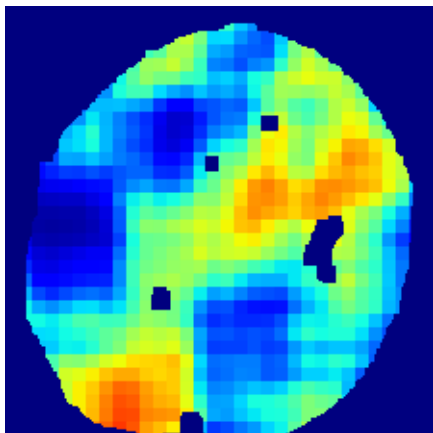
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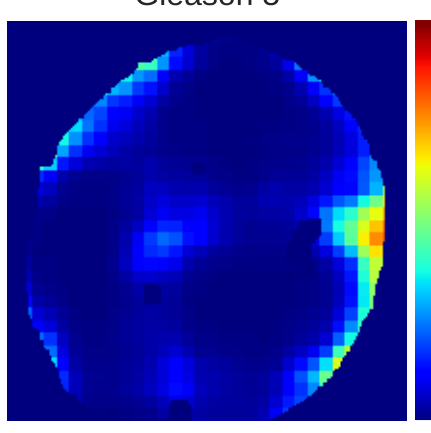
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Gleason 4



Gleason 5



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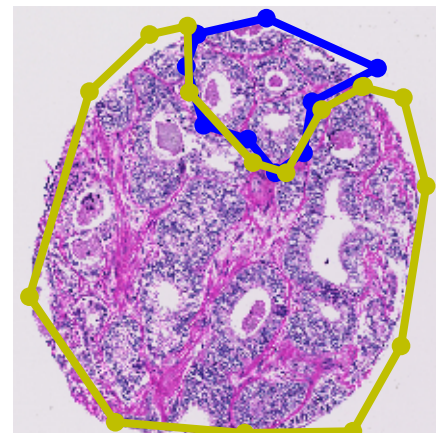
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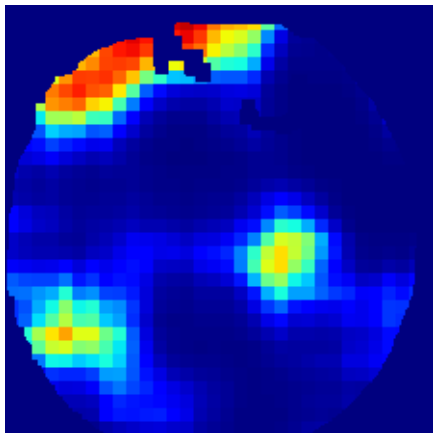
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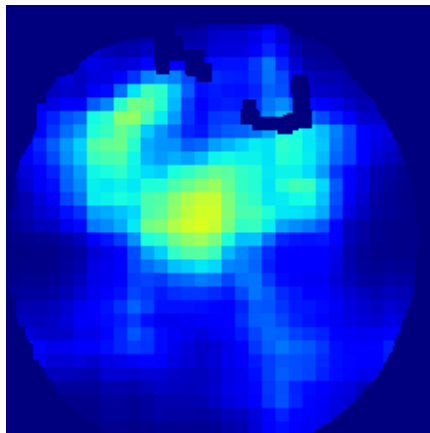
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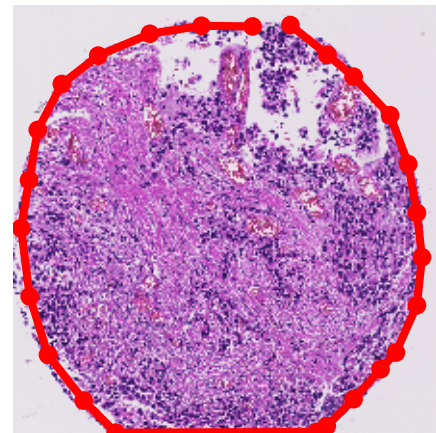
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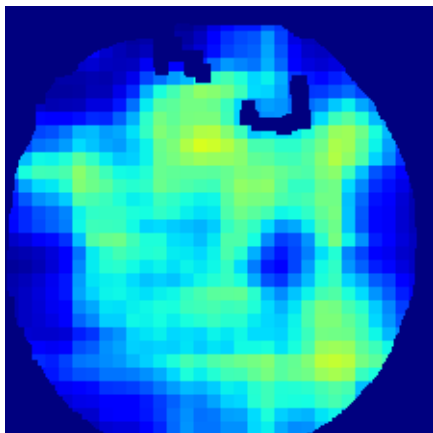
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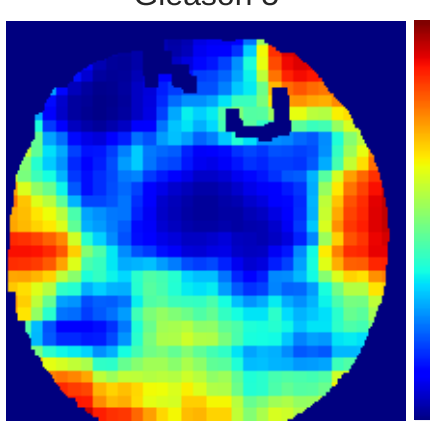
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Gleason 4



Gleason 5



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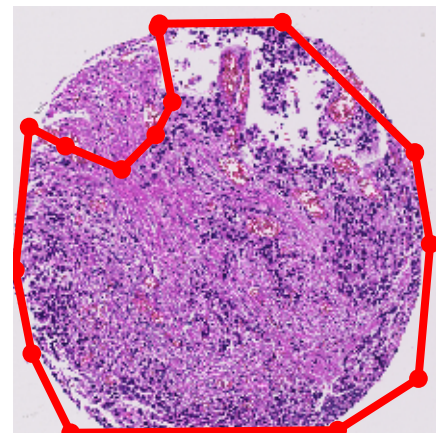
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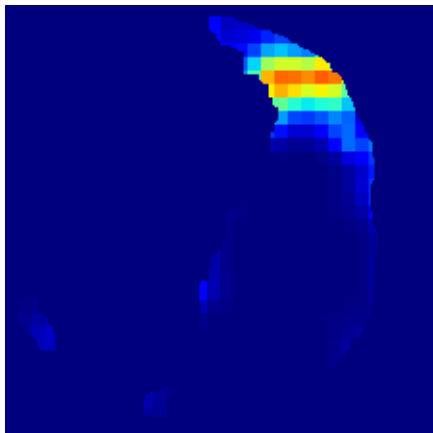
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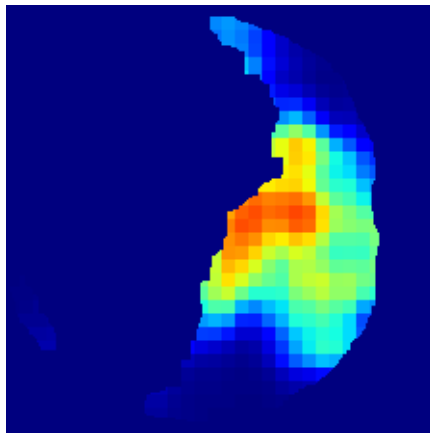
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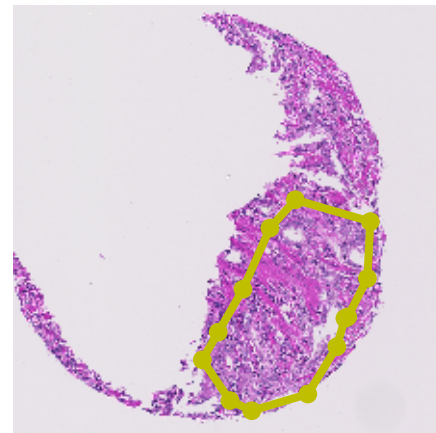
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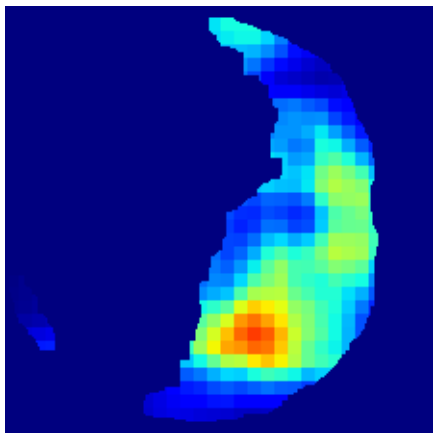
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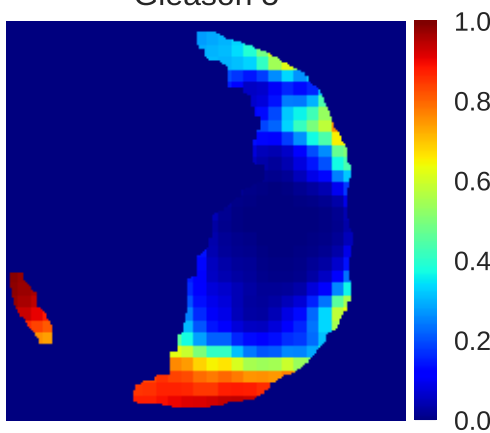
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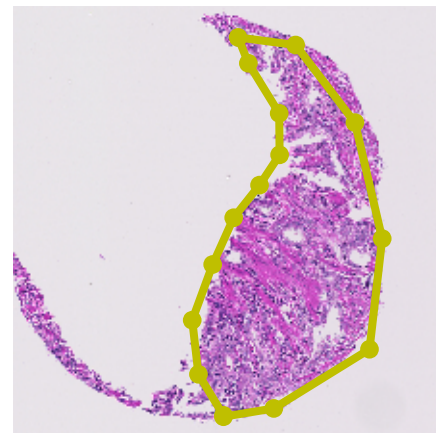
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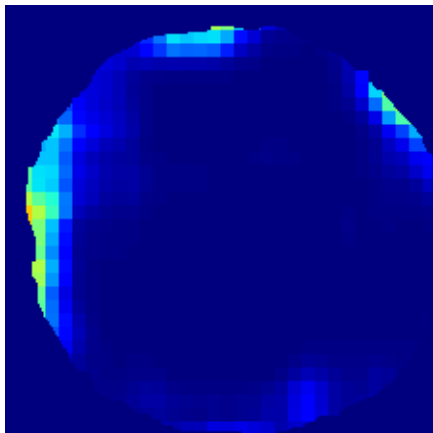
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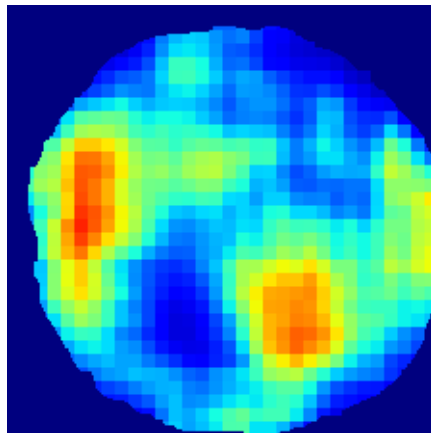
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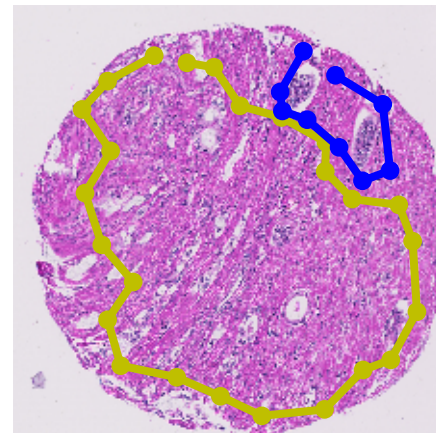
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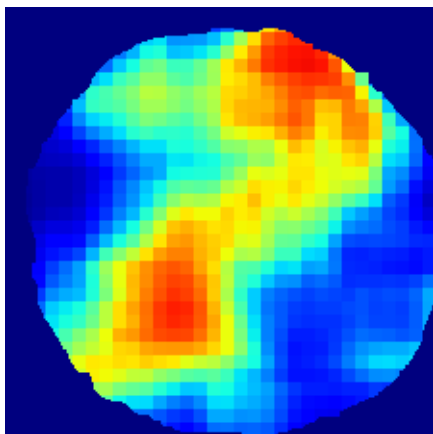
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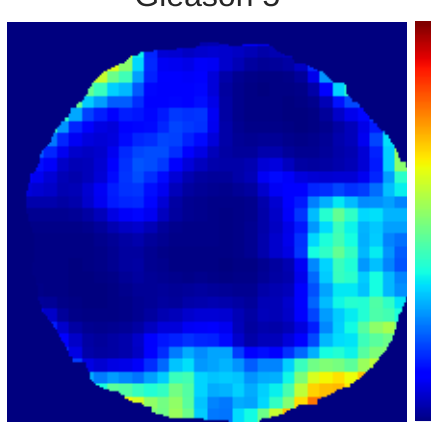
Pathologist 1



Gleason 4



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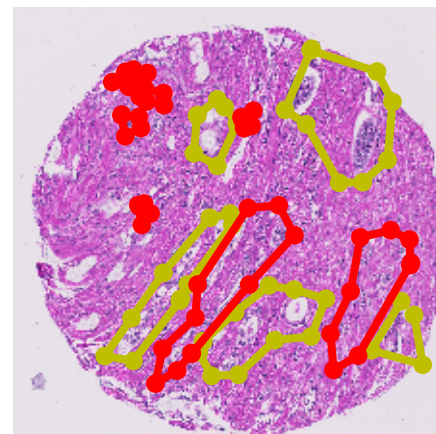
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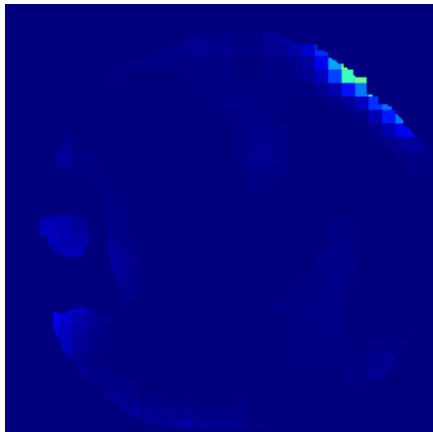
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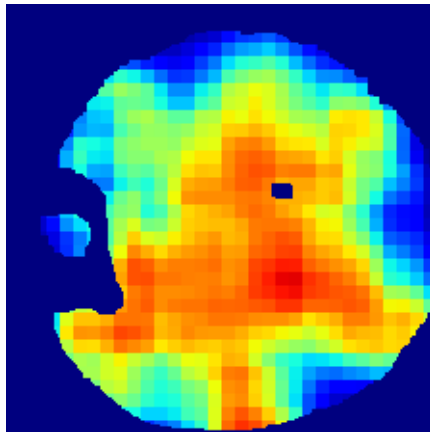
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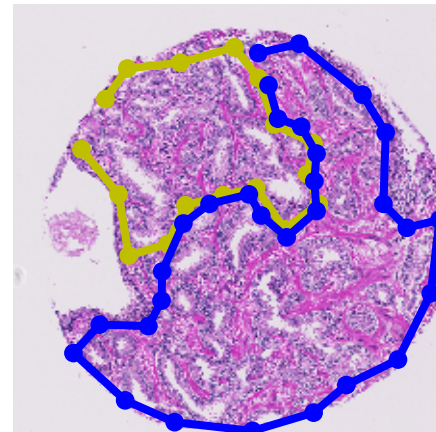
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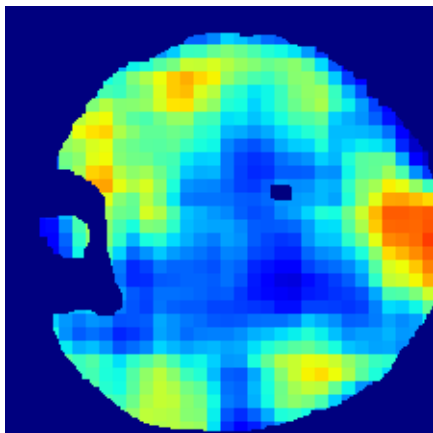
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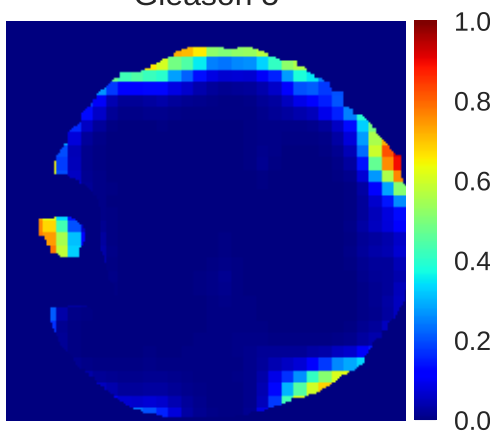
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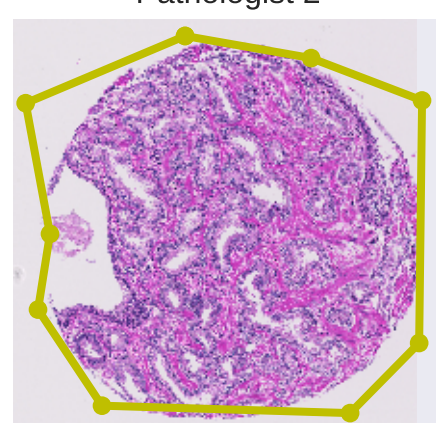
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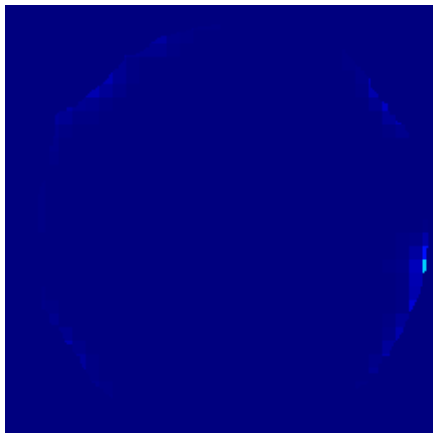
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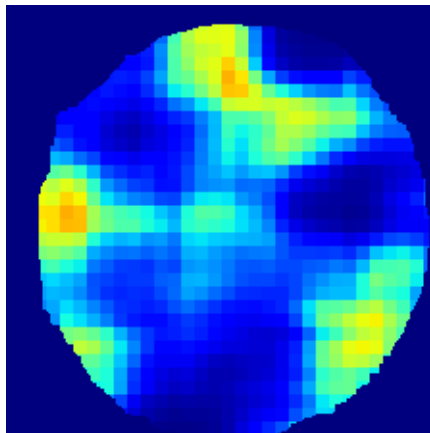
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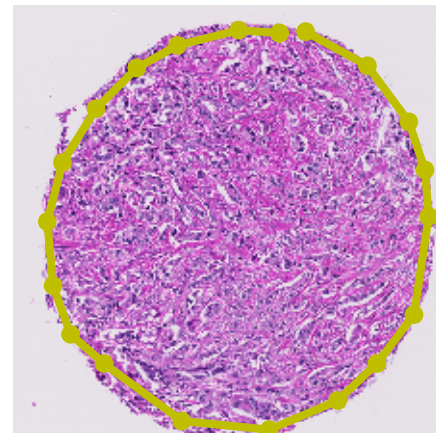
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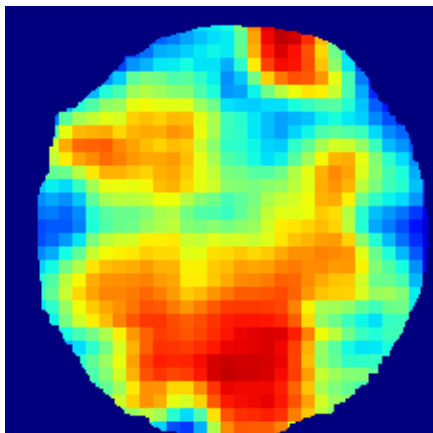
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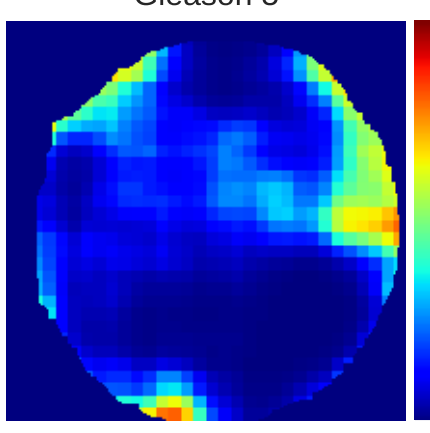
Pathologist 1



Gleason 4



Gleason 5



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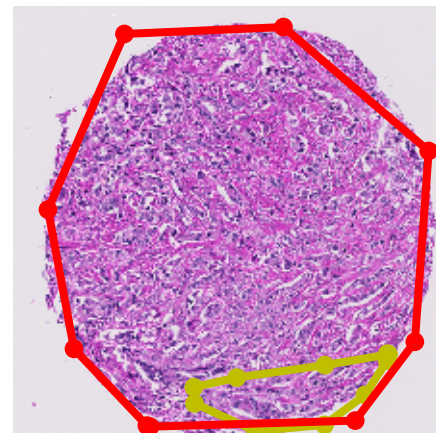
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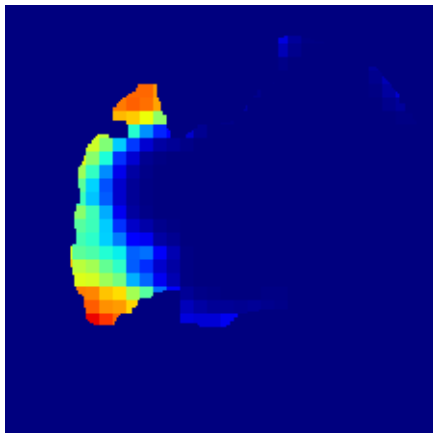
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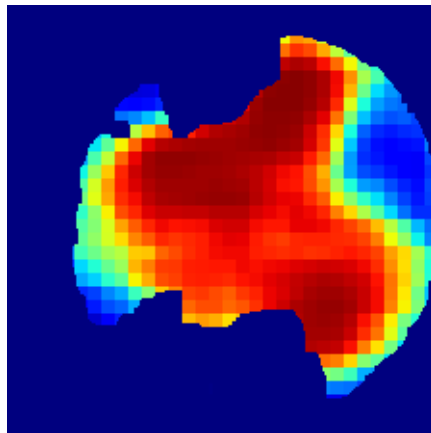
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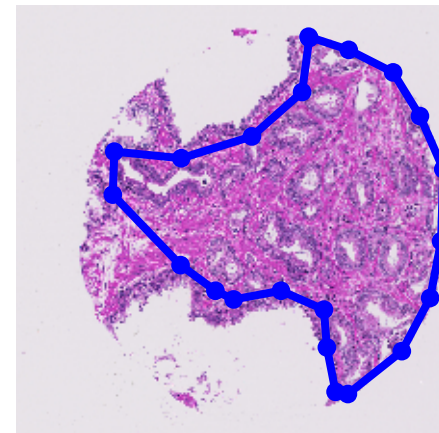
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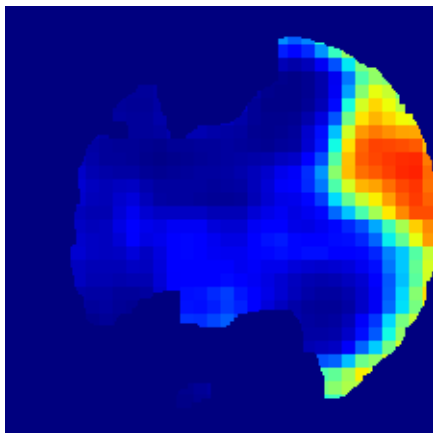
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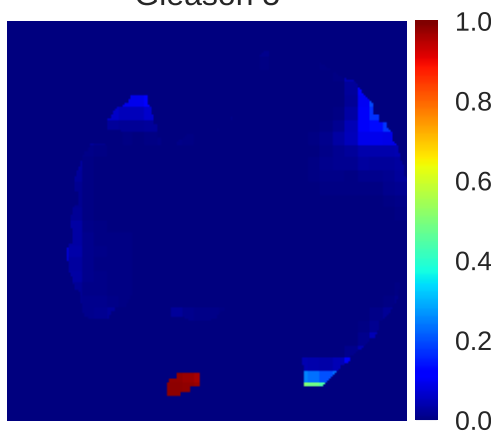
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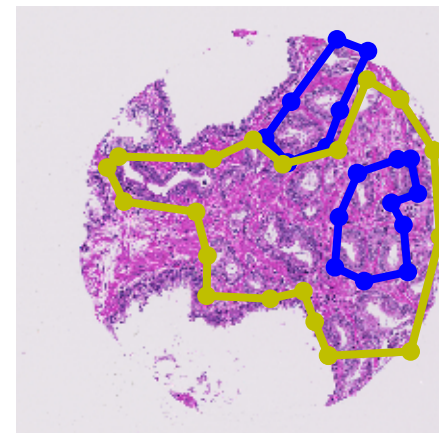
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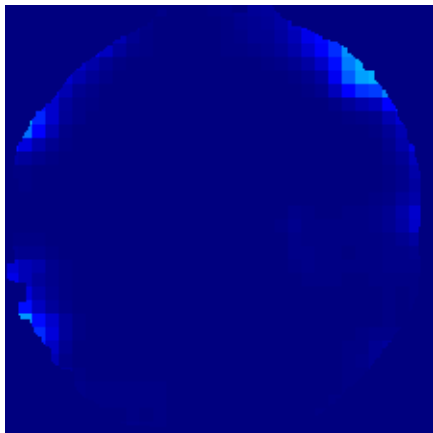
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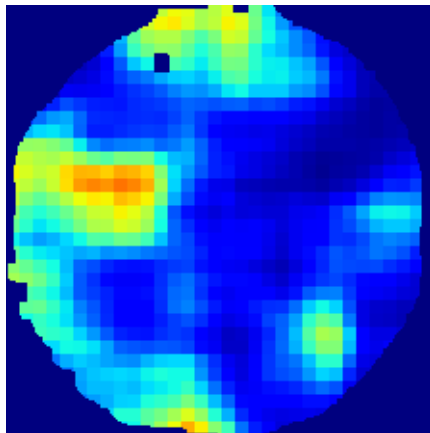
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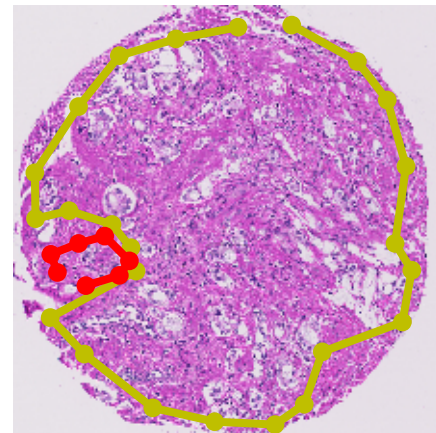
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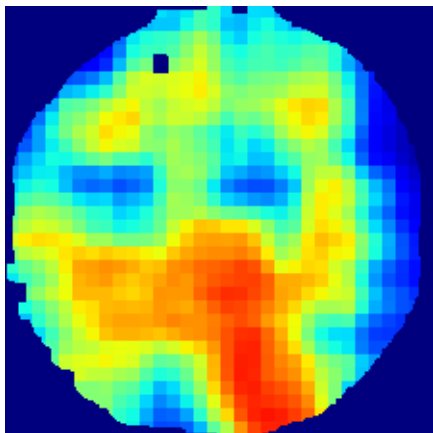
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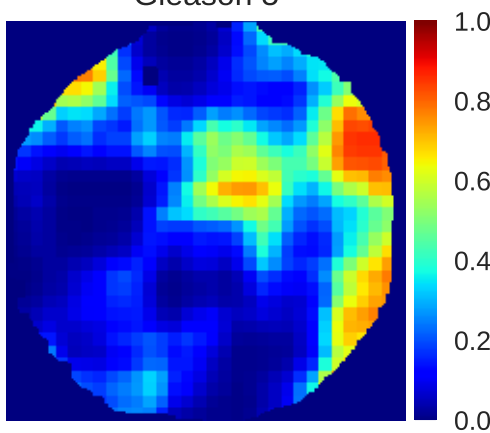
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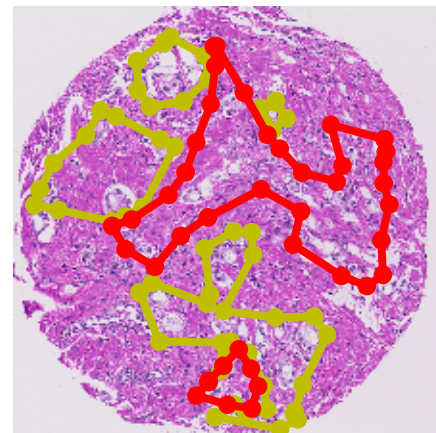
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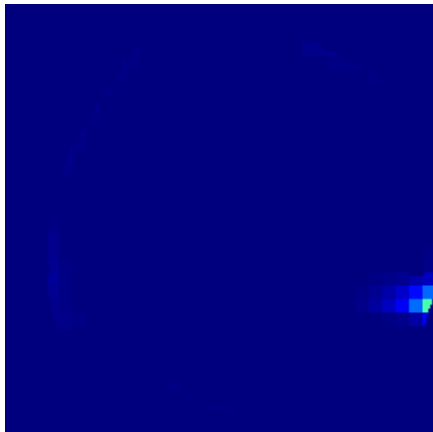
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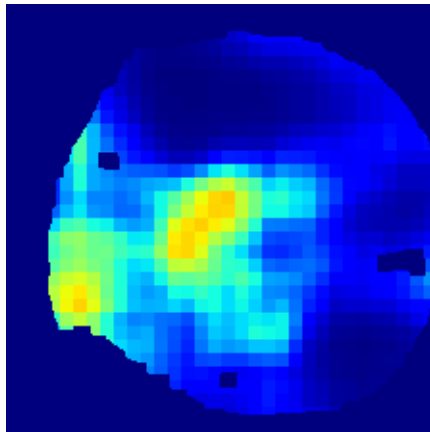
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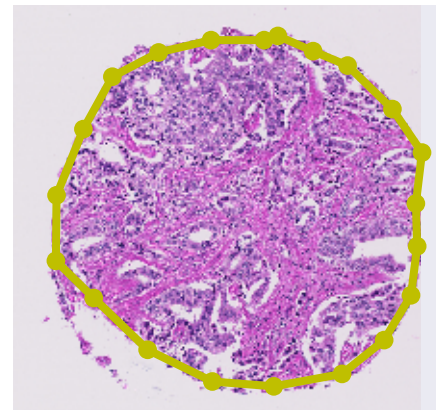
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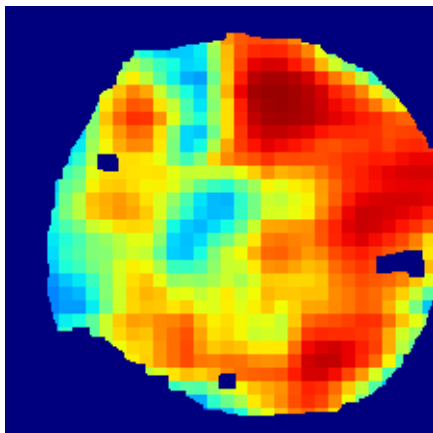
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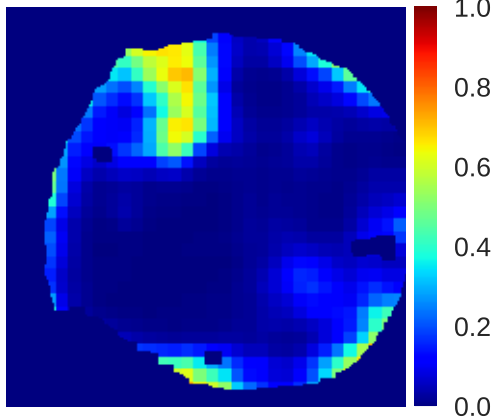
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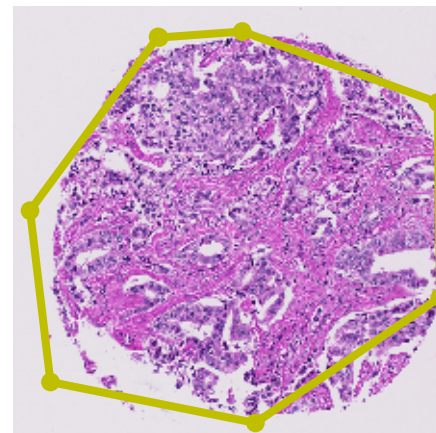
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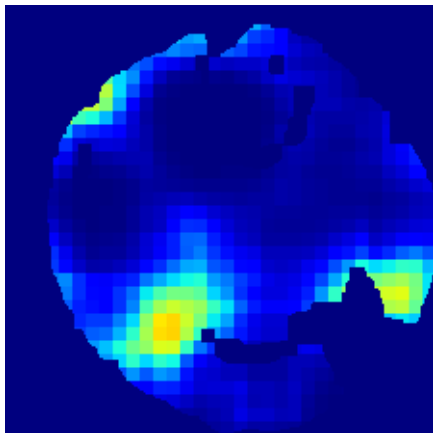
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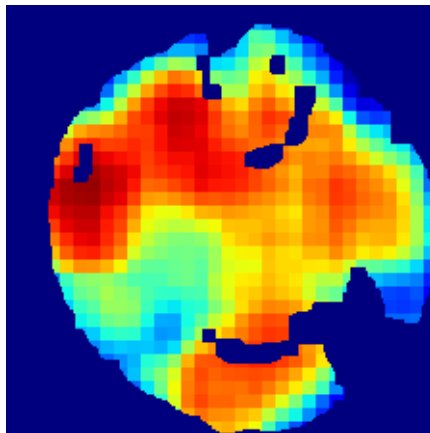
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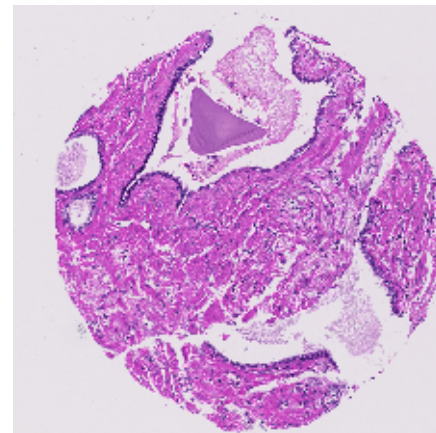
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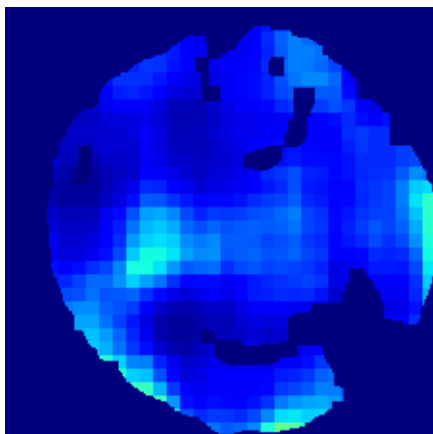
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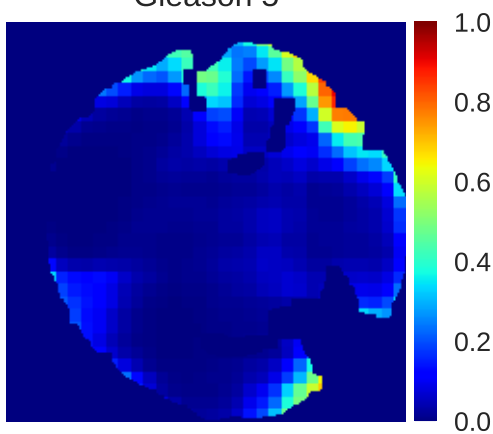
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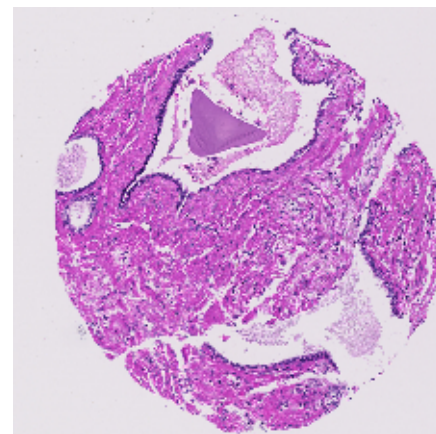
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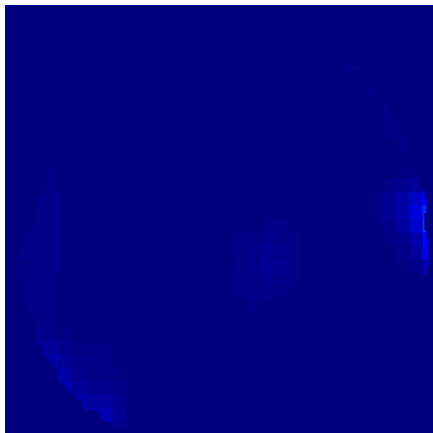
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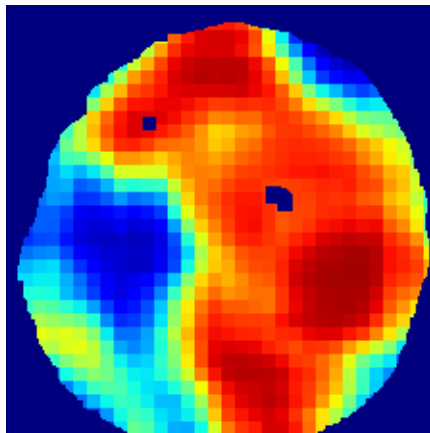
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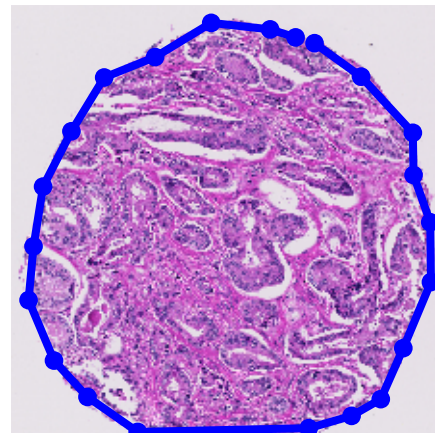
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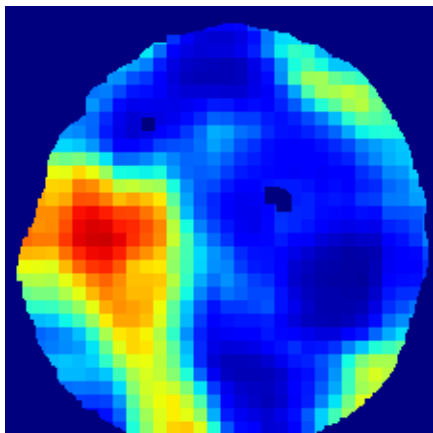
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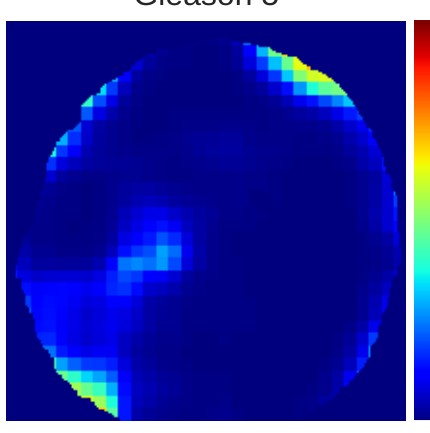
Pathologist 1



Gleason 4



Gleason 5



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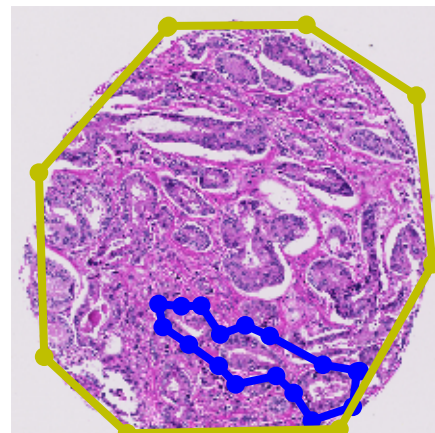
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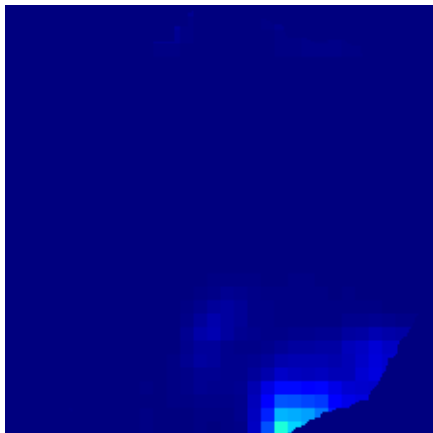
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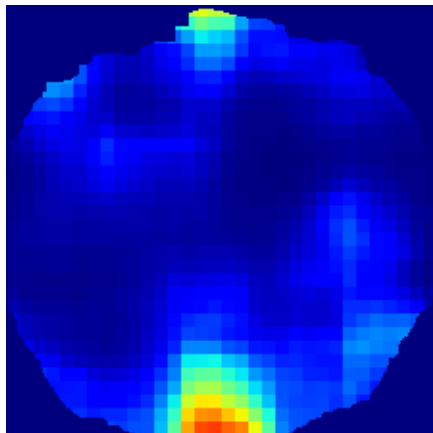
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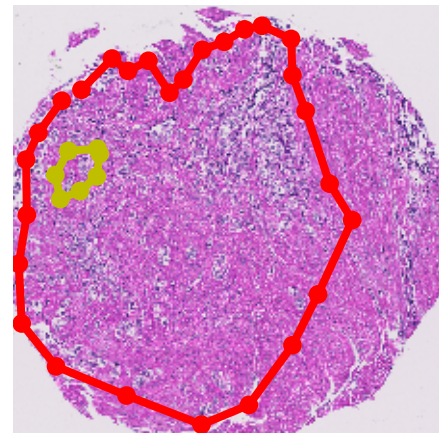
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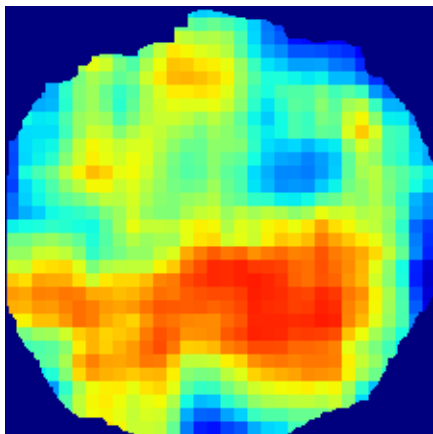
Gleason 3



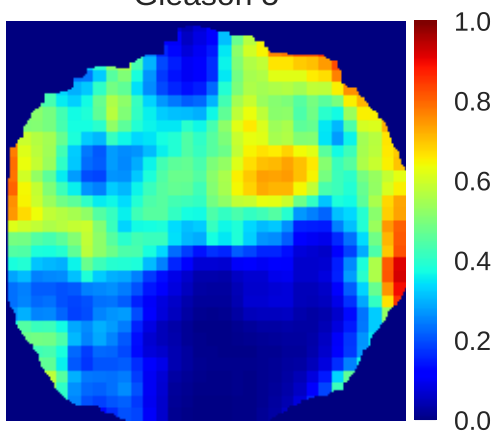
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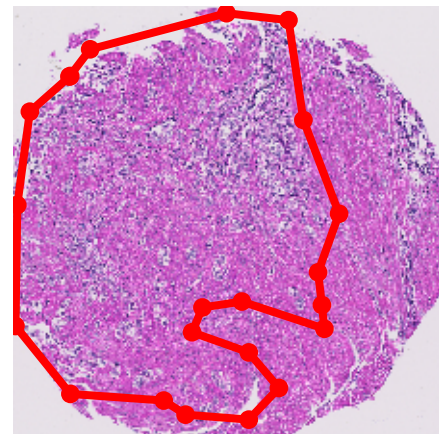
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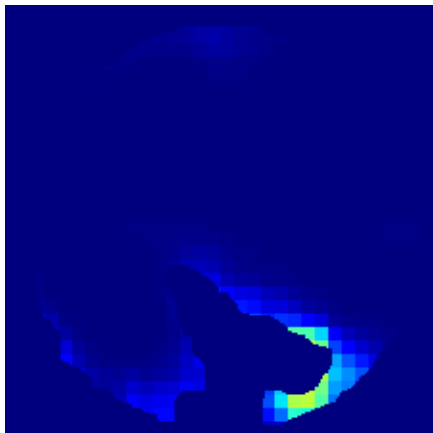
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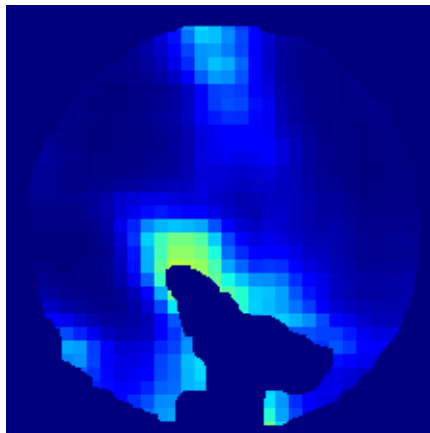
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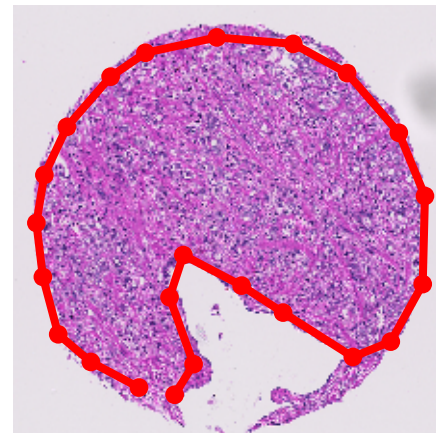
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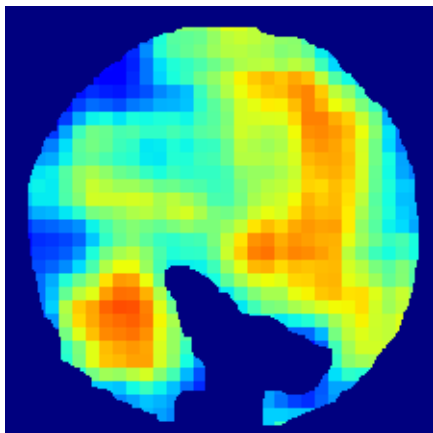
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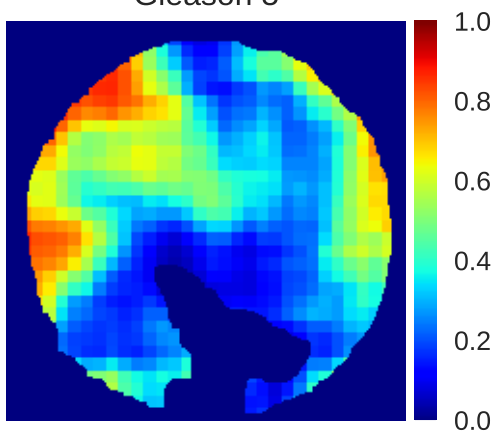
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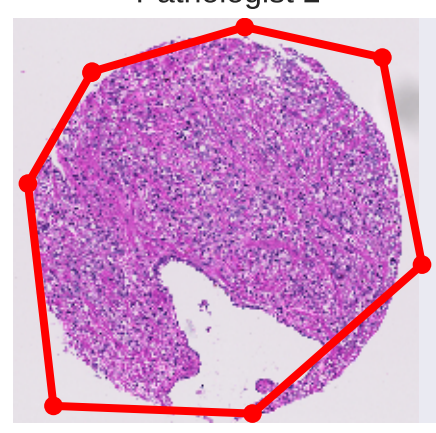
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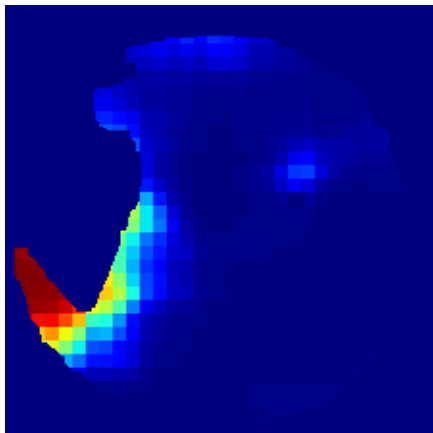
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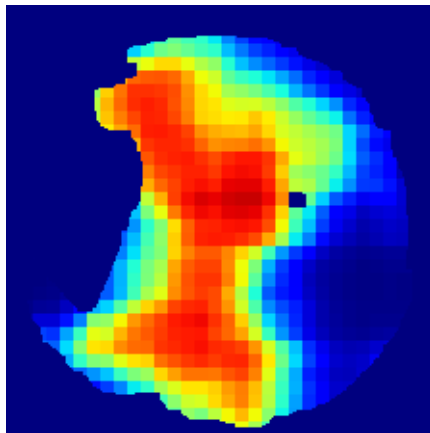
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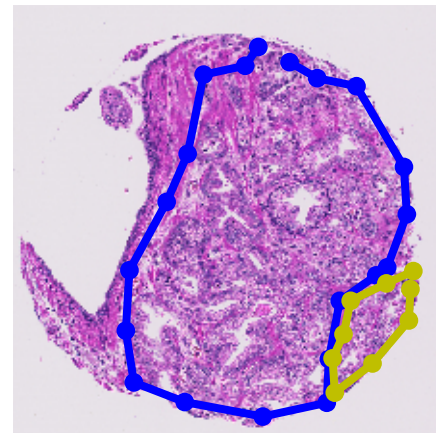
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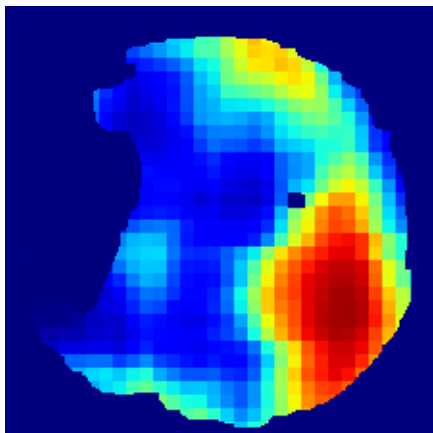
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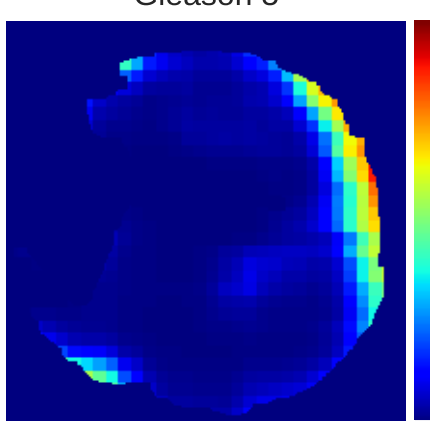
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Gleason 4



Gleason 5



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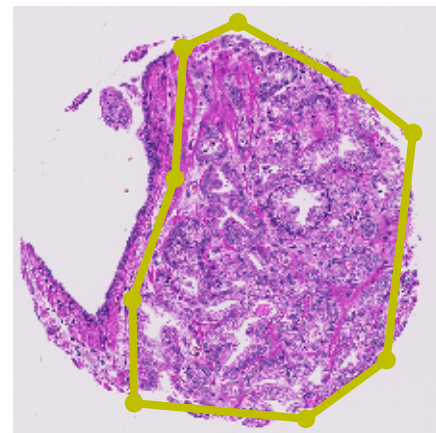
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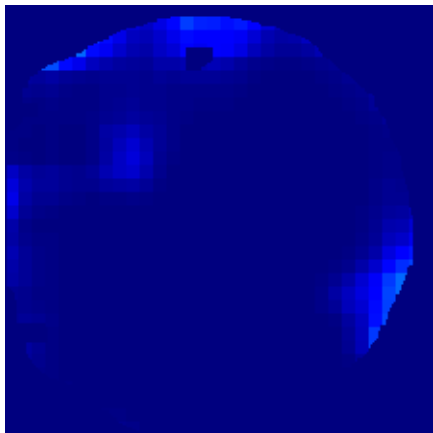
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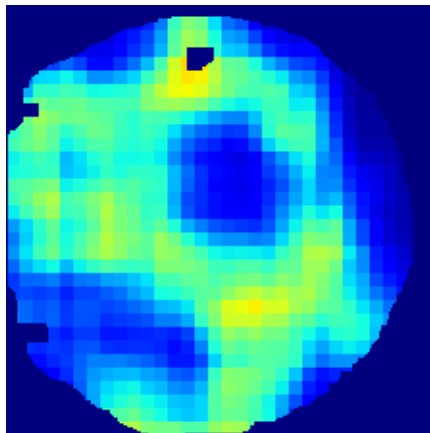
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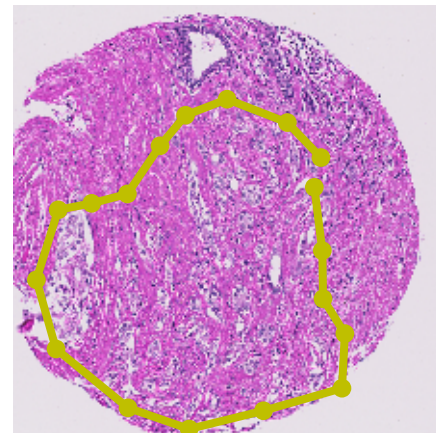
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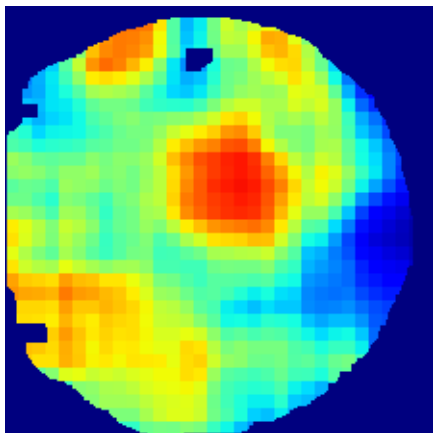
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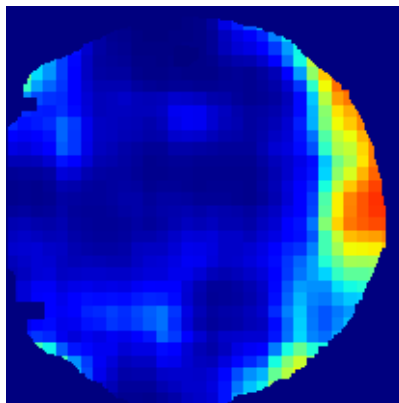
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Gleason 4



Gleason 5



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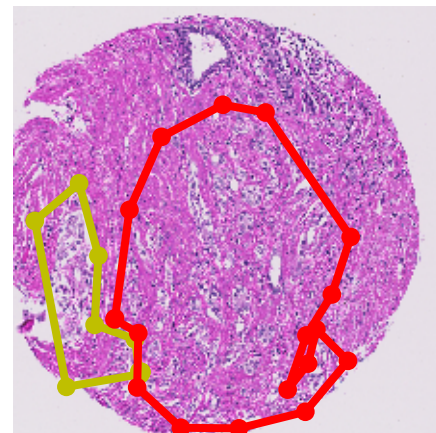
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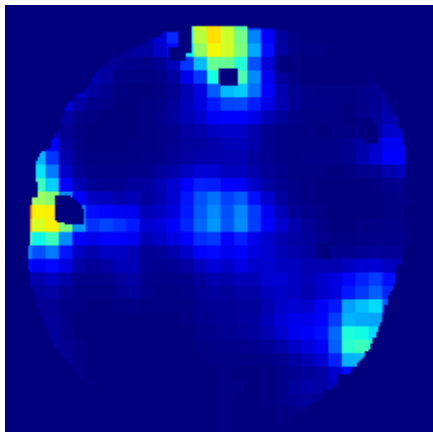
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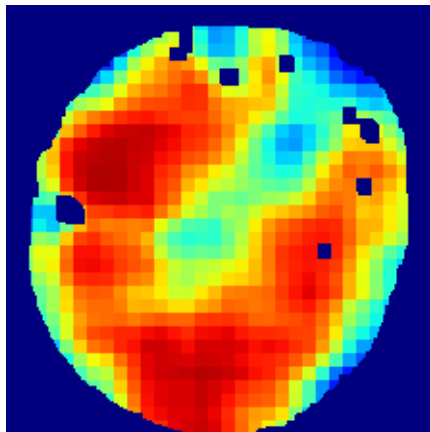
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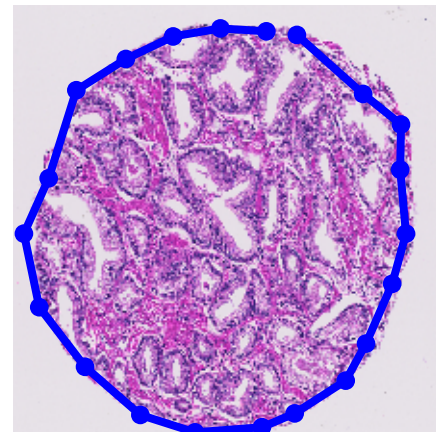
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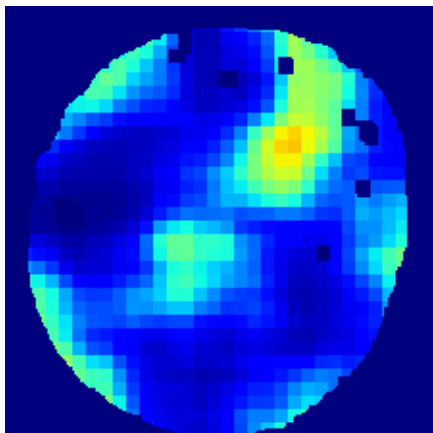
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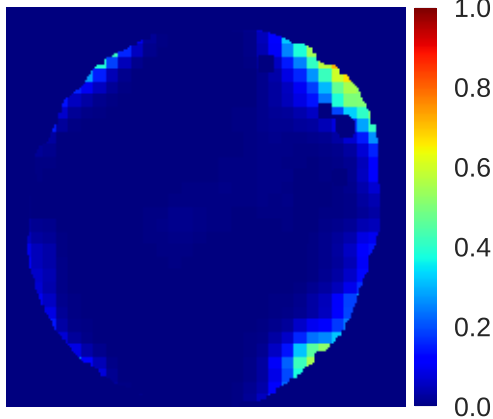
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Gleason 4



Gleason 5



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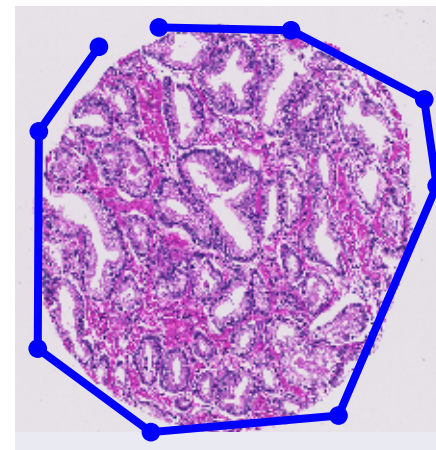
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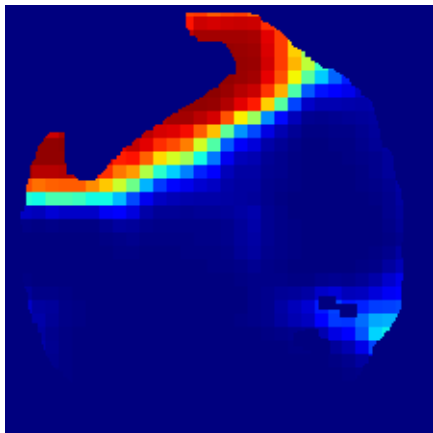
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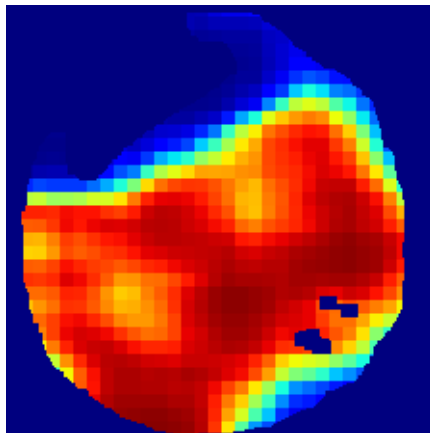
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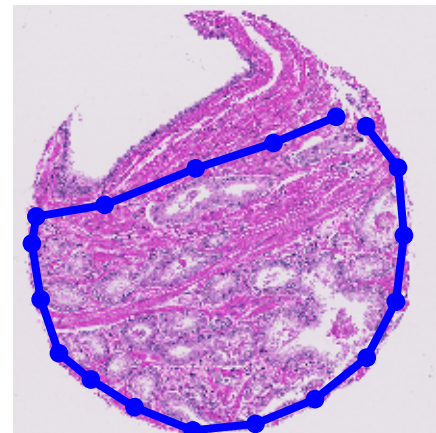
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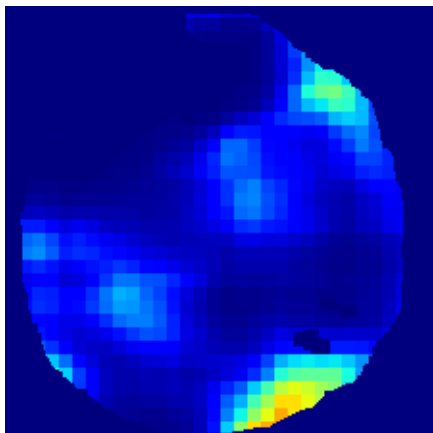
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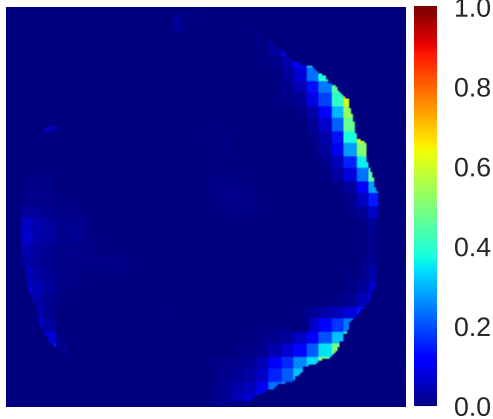
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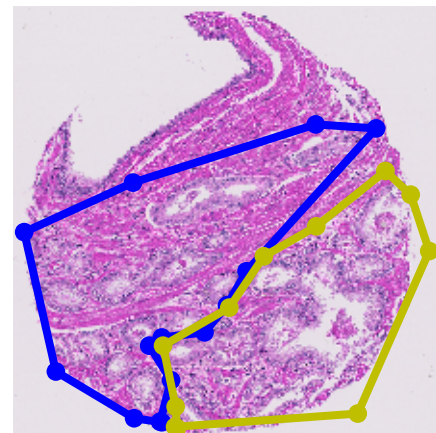
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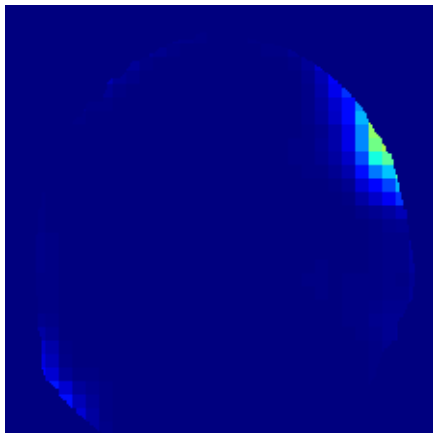
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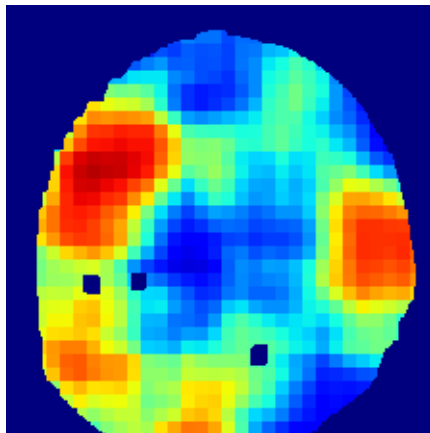
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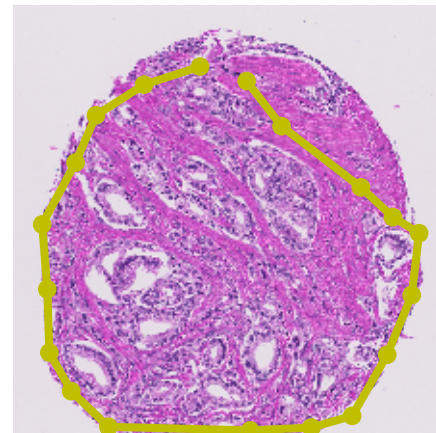
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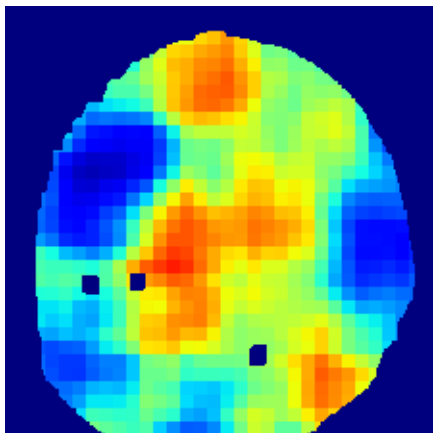
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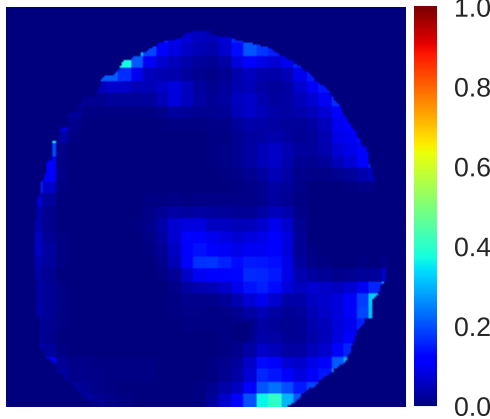
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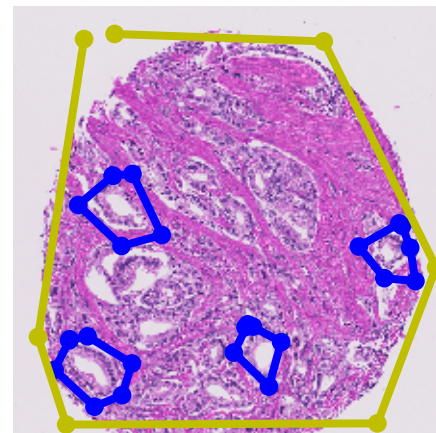
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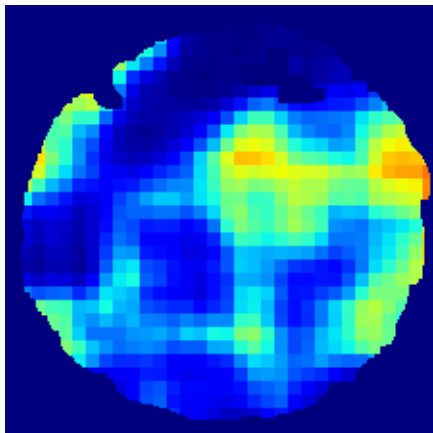
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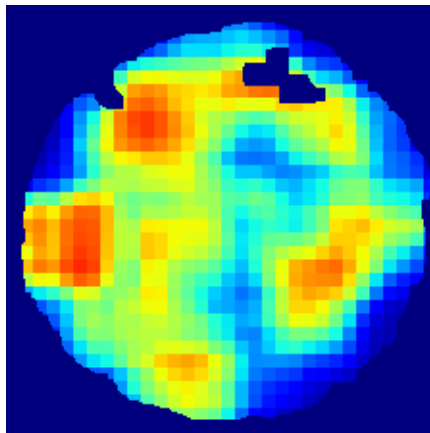
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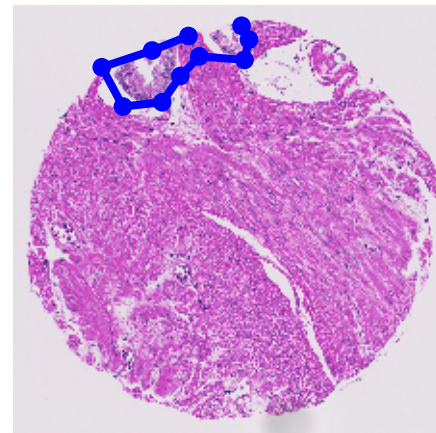
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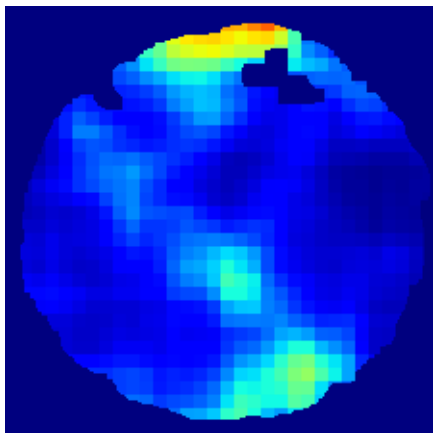
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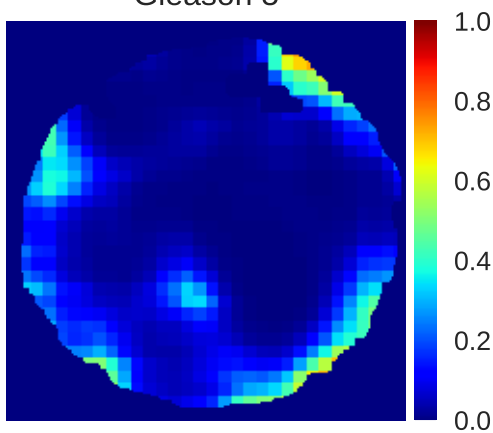
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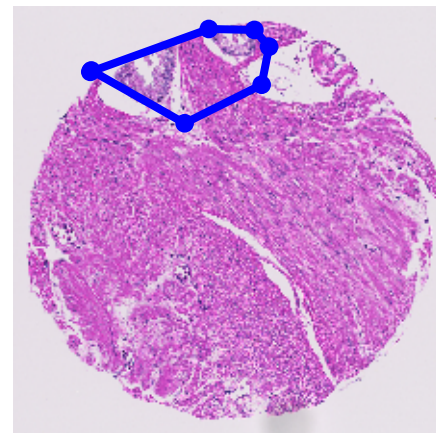
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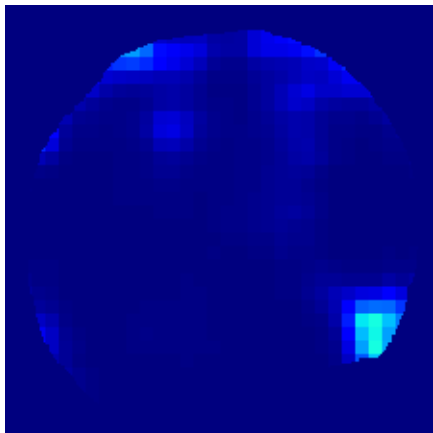
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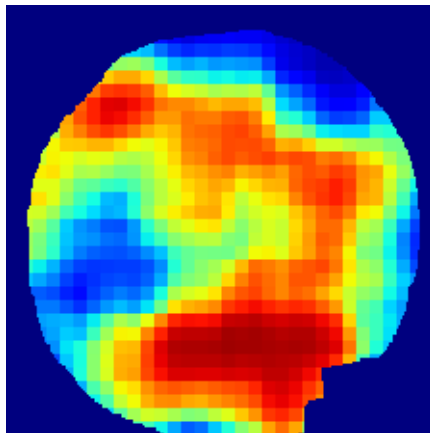
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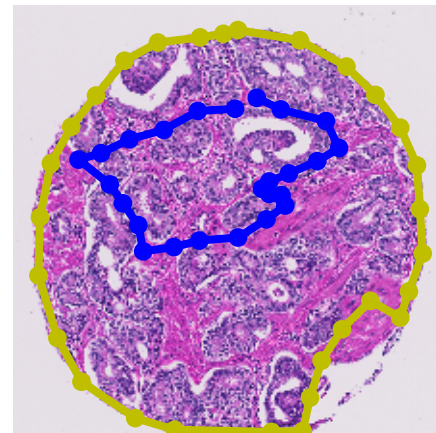
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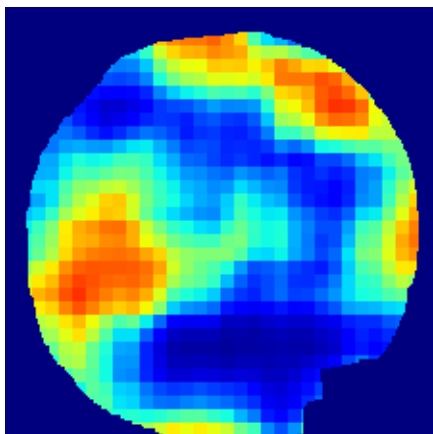
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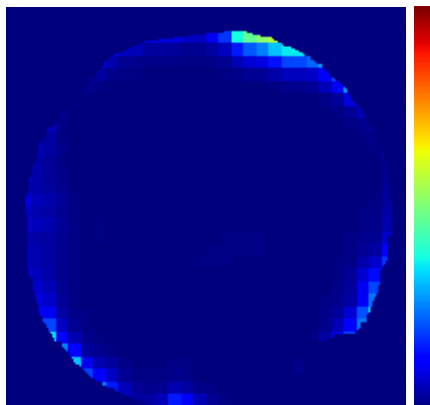
Pathologist 1



Gleason 4



Gleason 5



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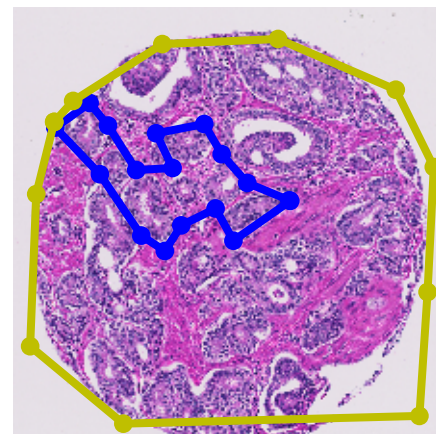
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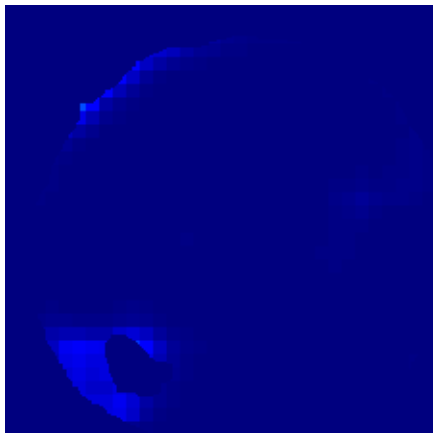
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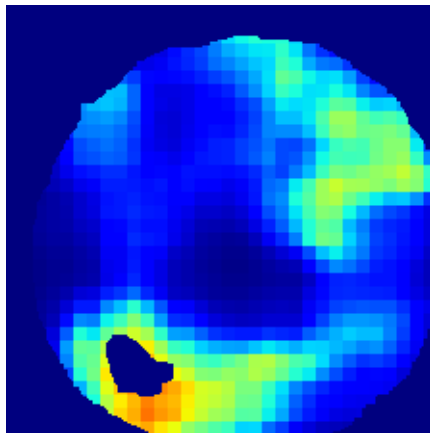
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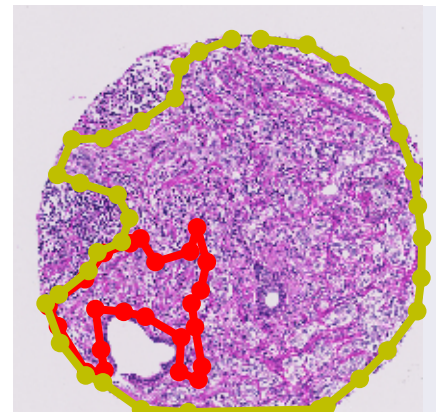
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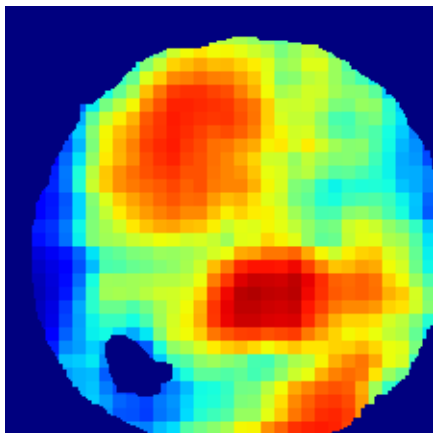
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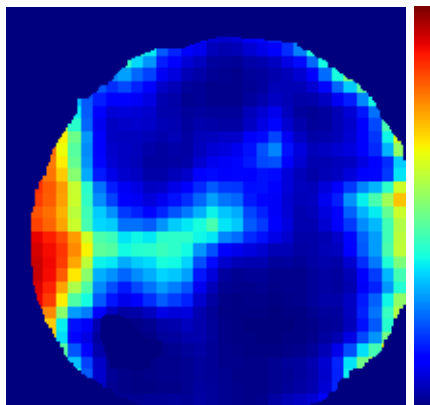
Pathologist 1



Gleason 4



Gleason 5



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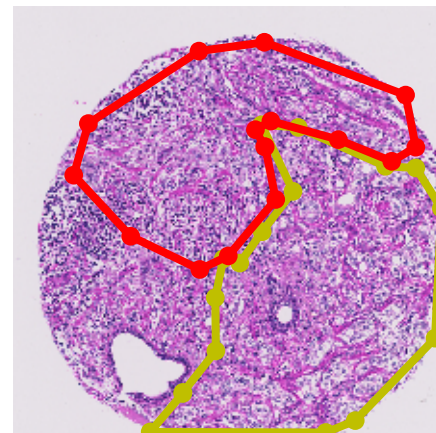
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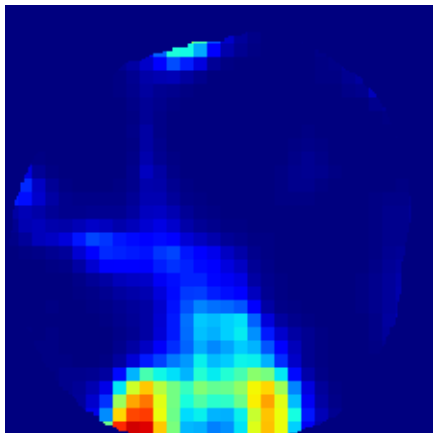
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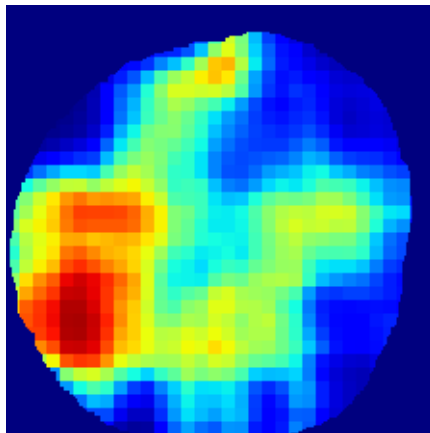
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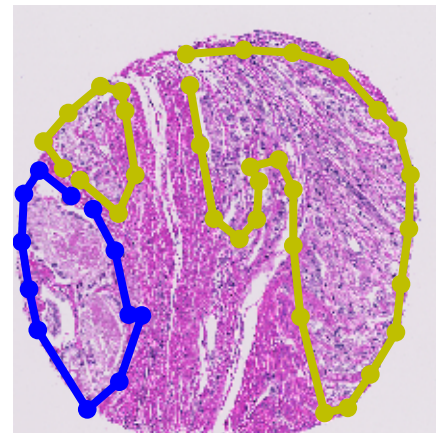
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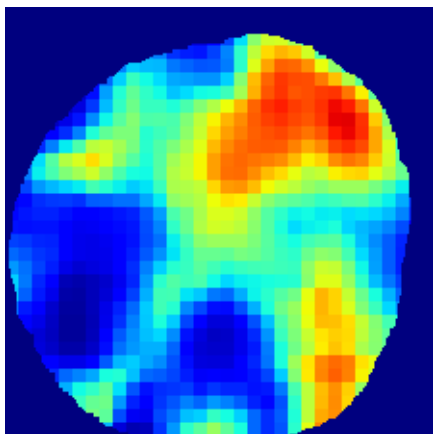
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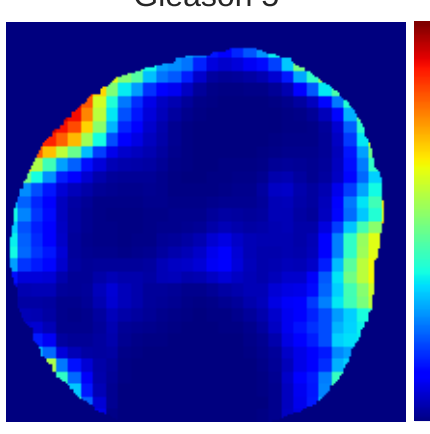
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Gleason 4



Gleason 5



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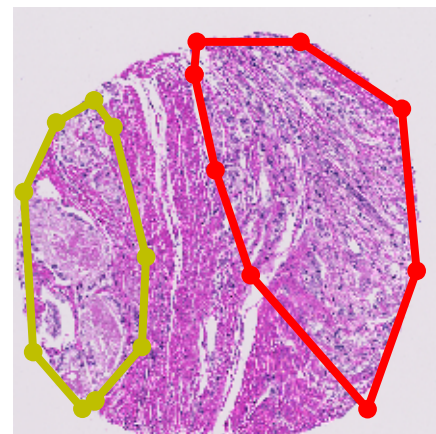
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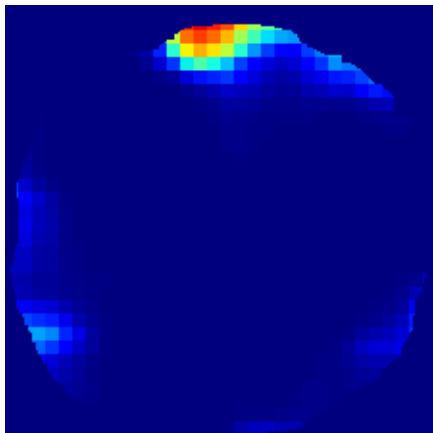
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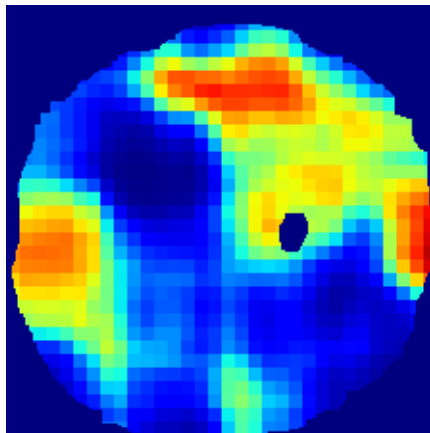
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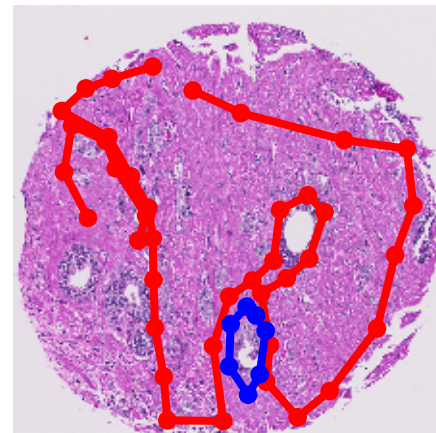
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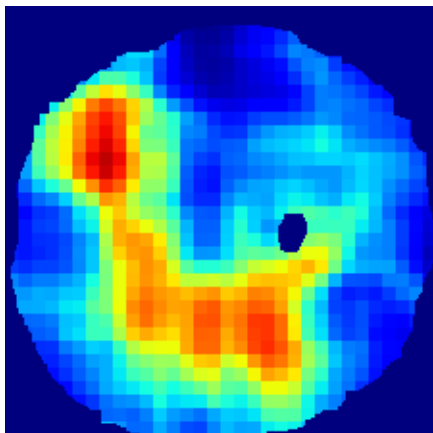
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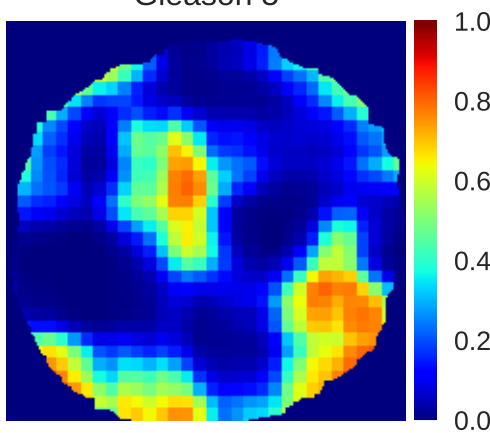
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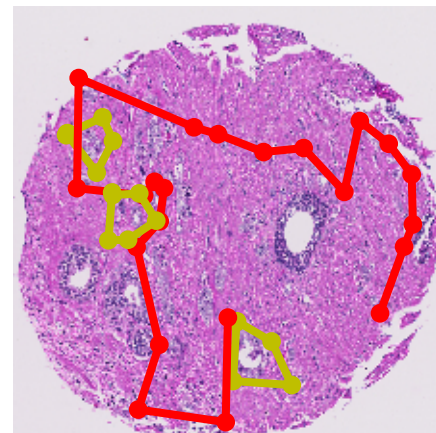
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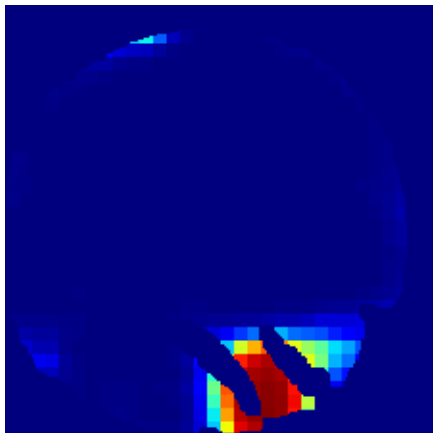
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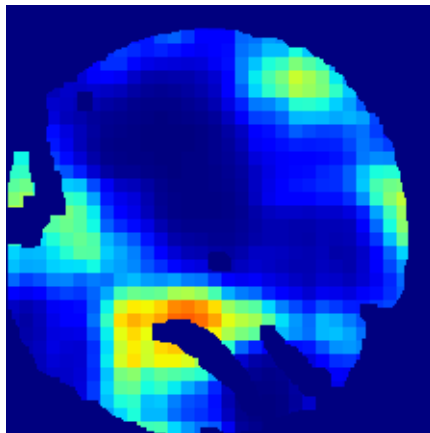
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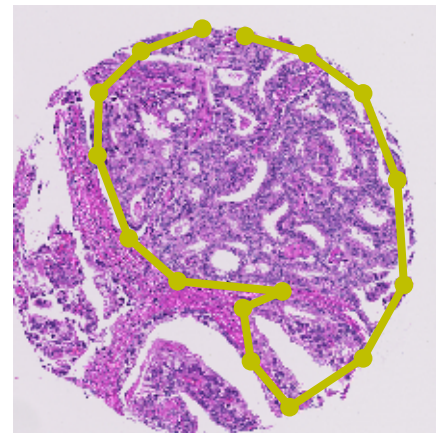
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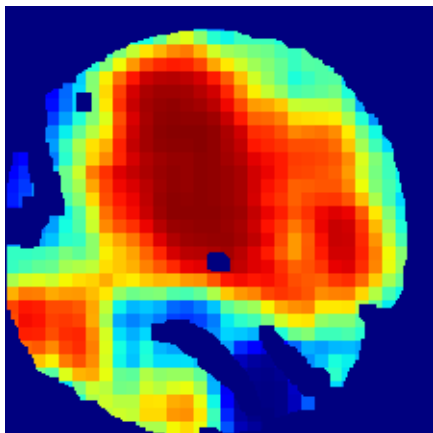
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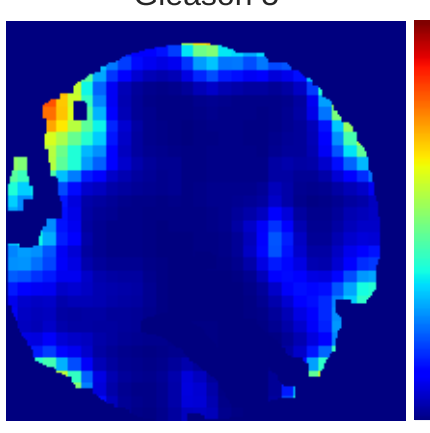
Pathologist 1



Gleason 4



Gleason 5



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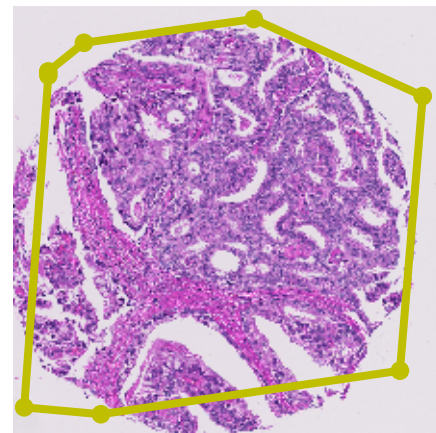
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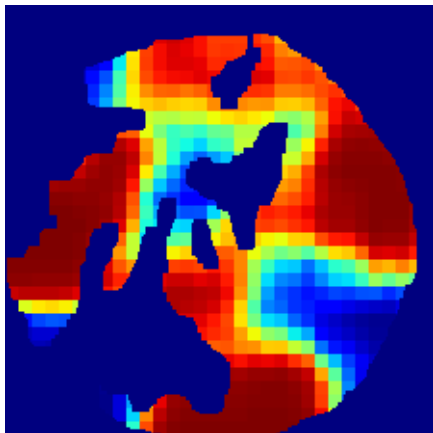
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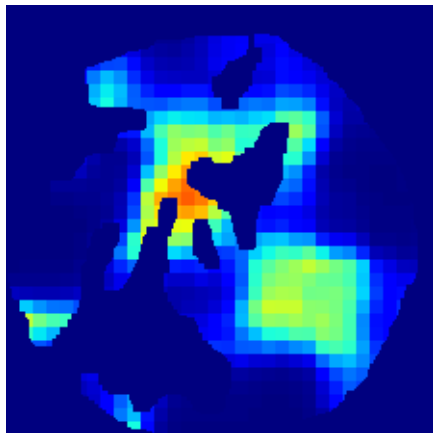
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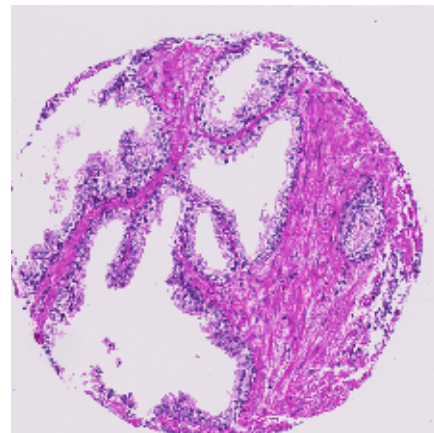
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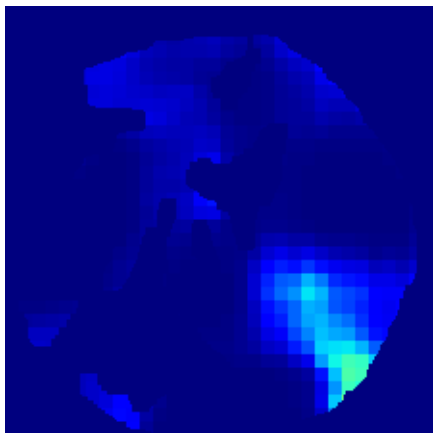
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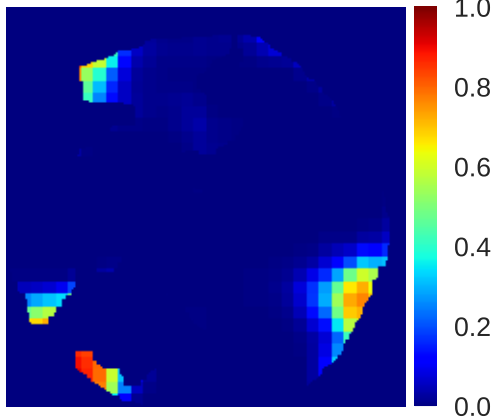
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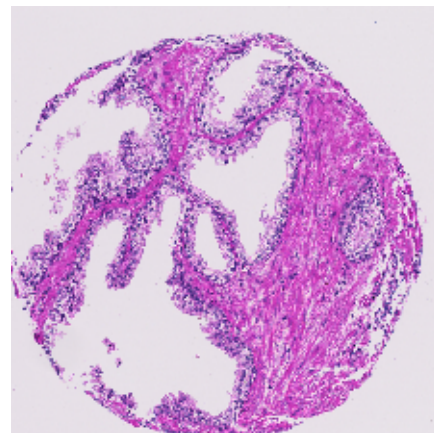
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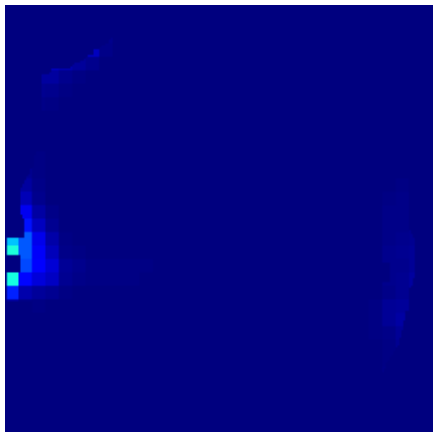
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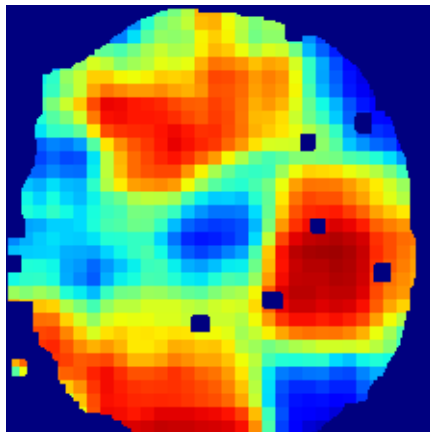
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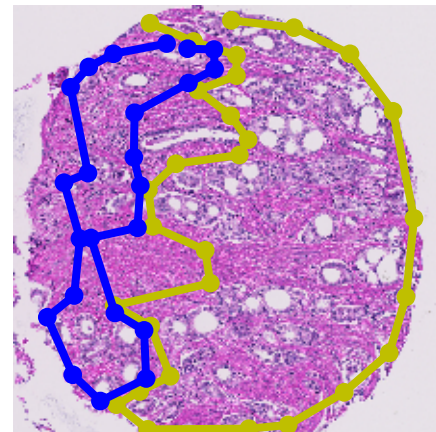
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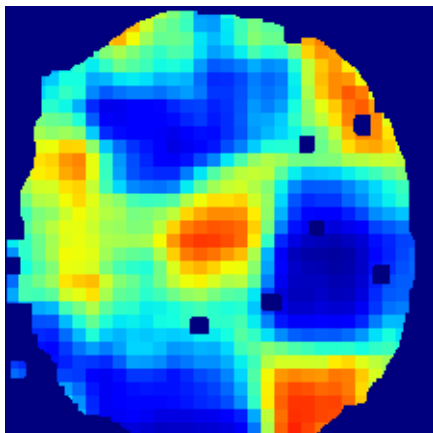
Gleason 3



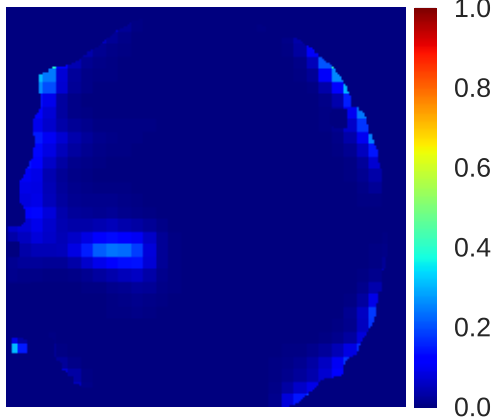
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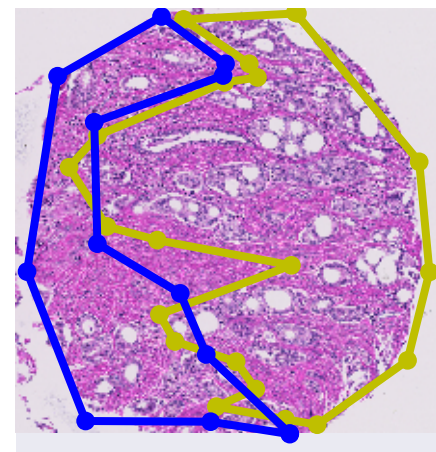
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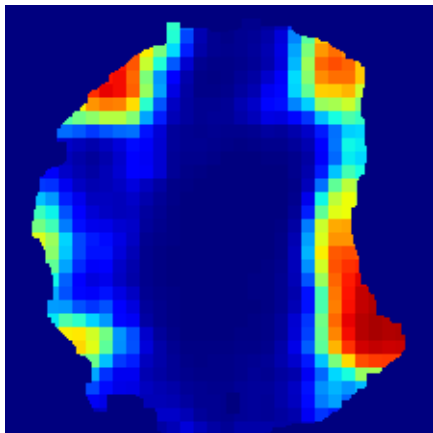
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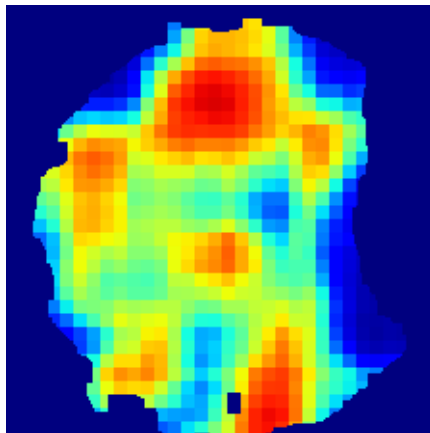
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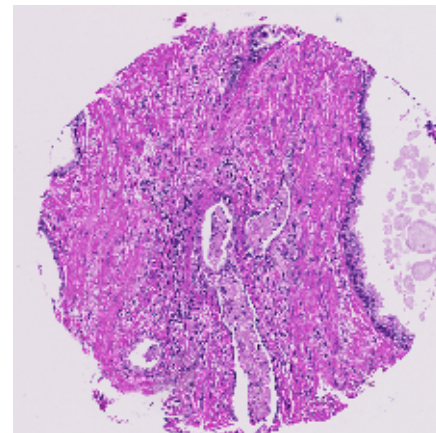
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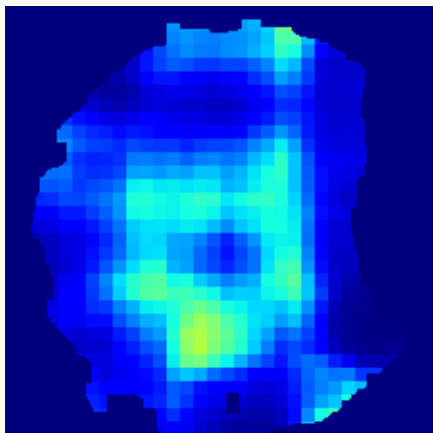
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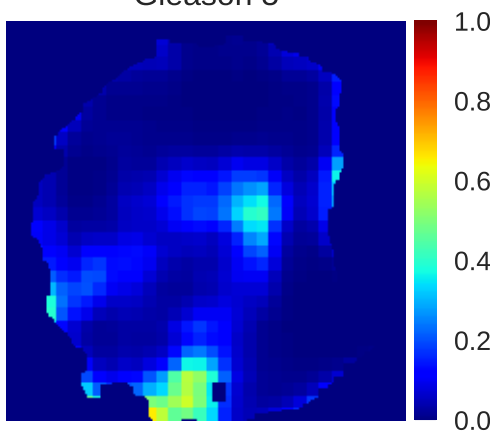
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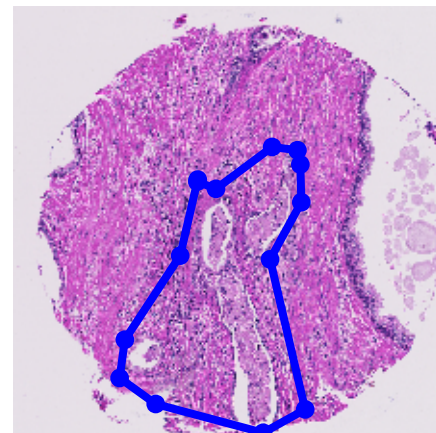
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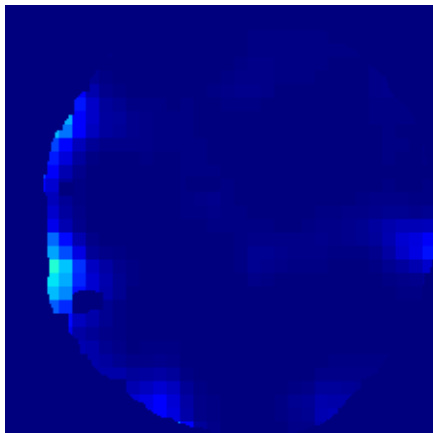
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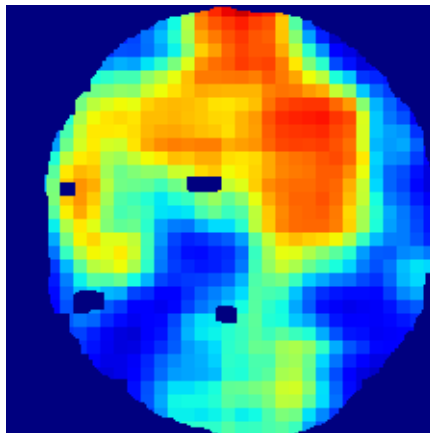
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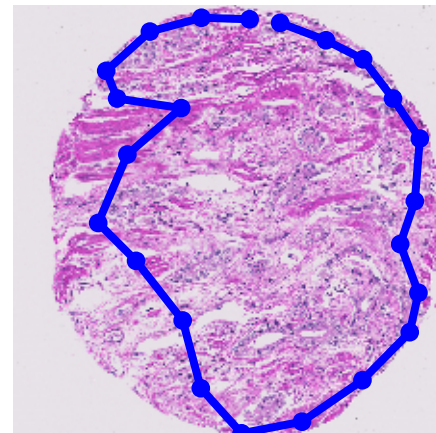
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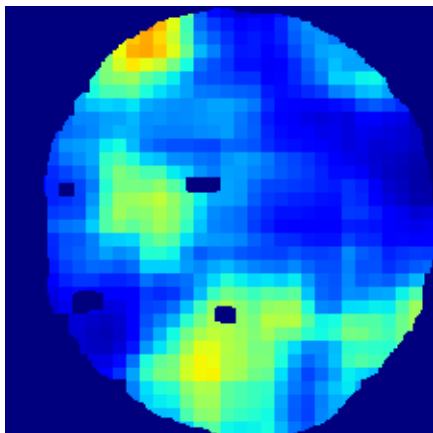
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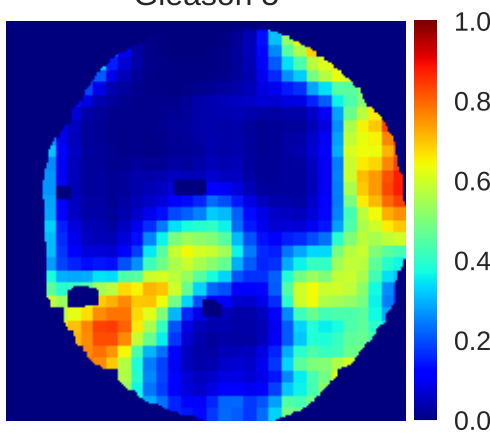
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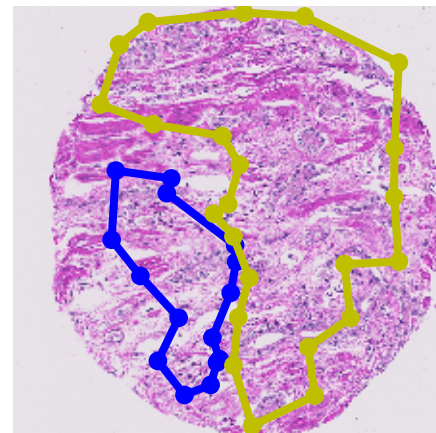
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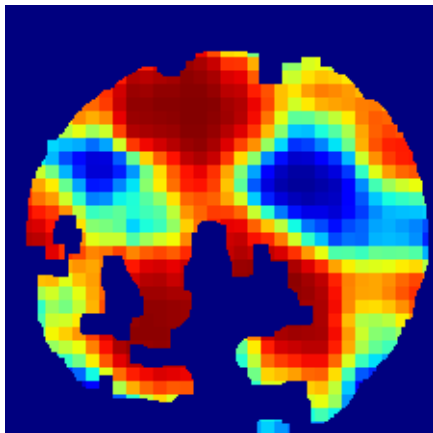
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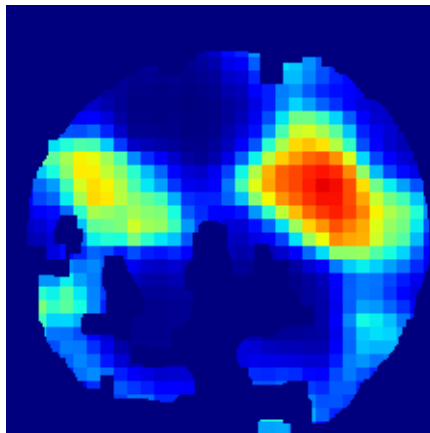
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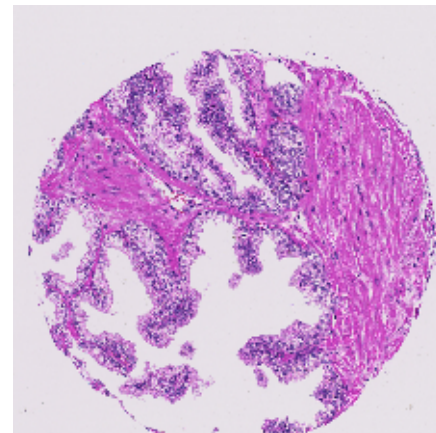
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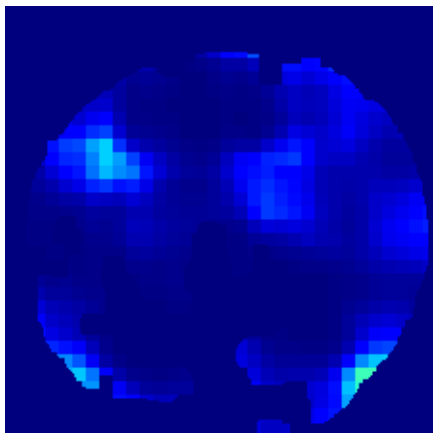
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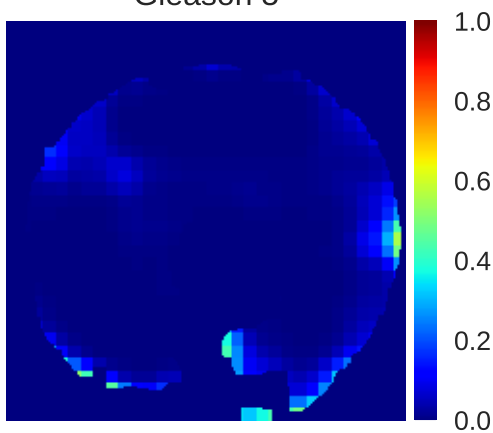
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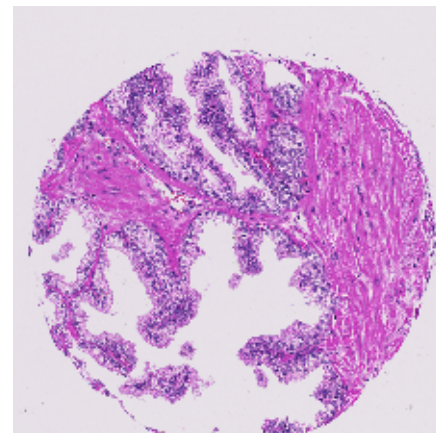
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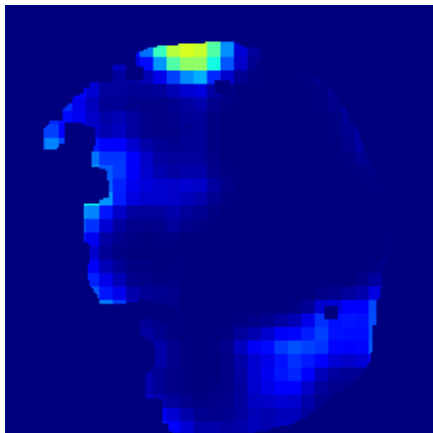
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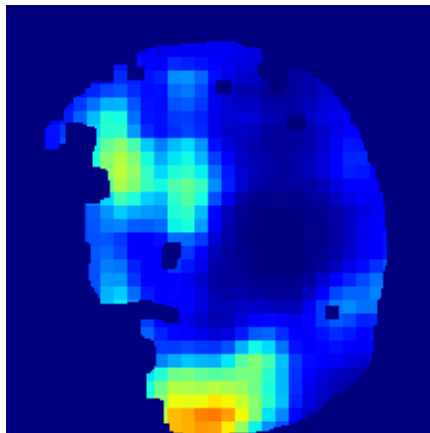
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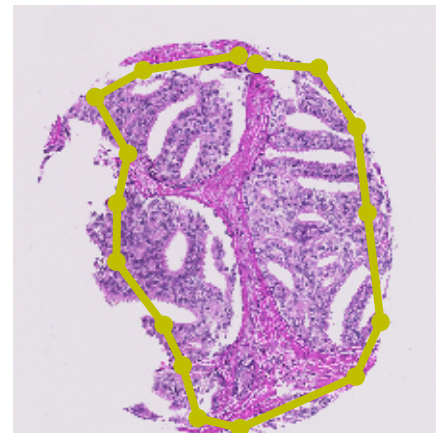
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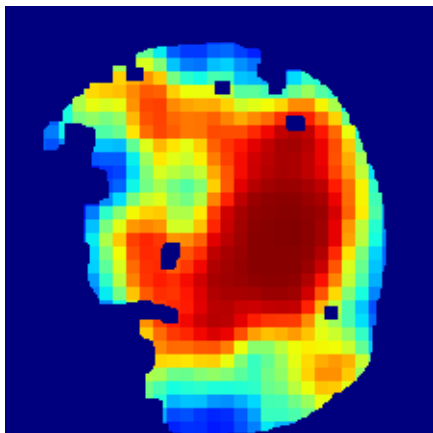
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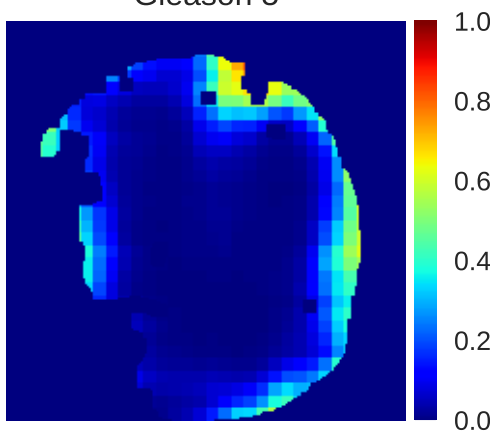
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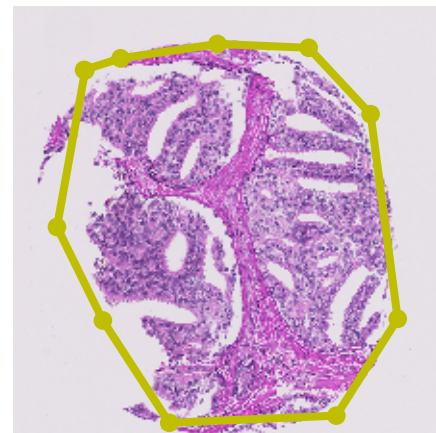
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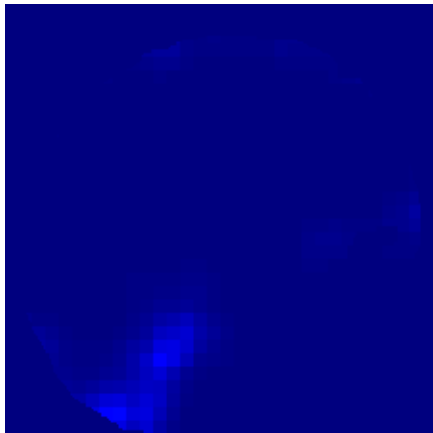
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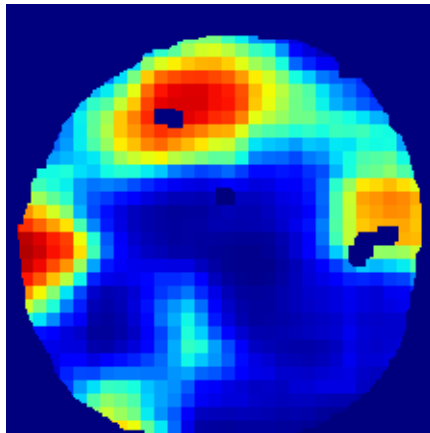
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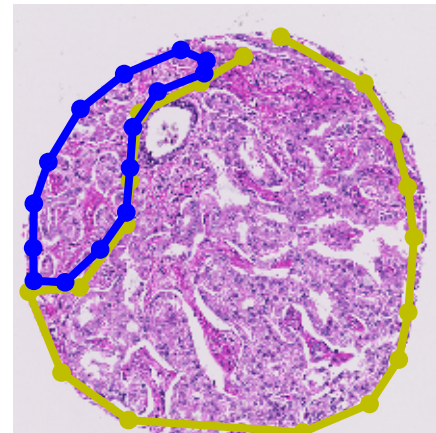
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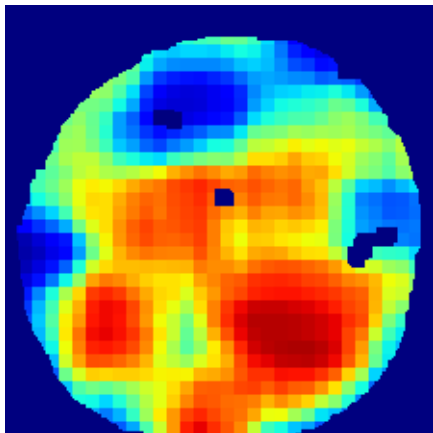
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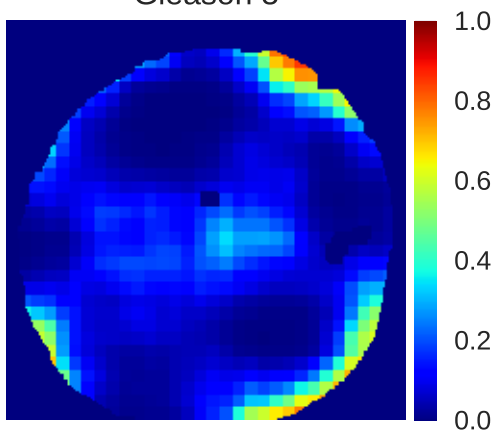
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Gleason 4



Gleason 5



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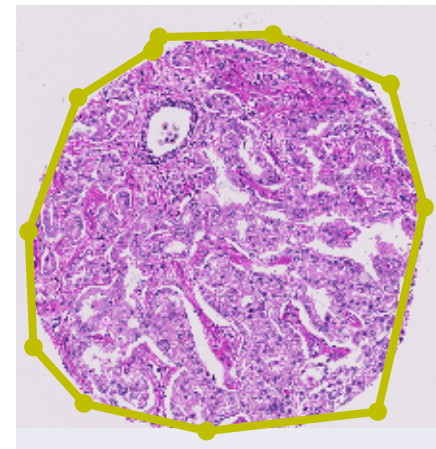
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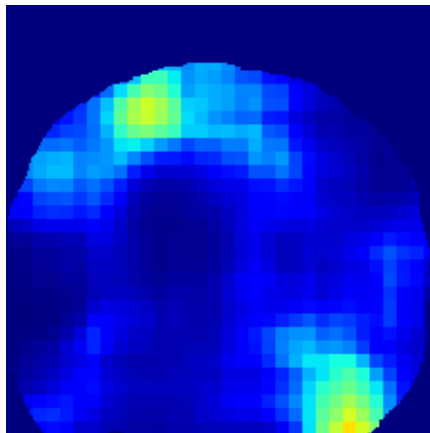
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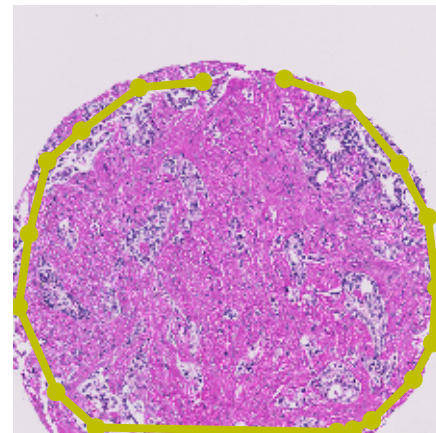
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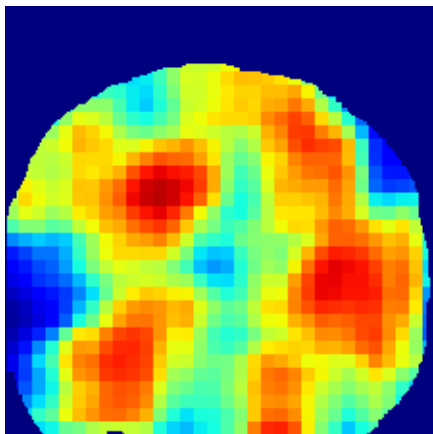
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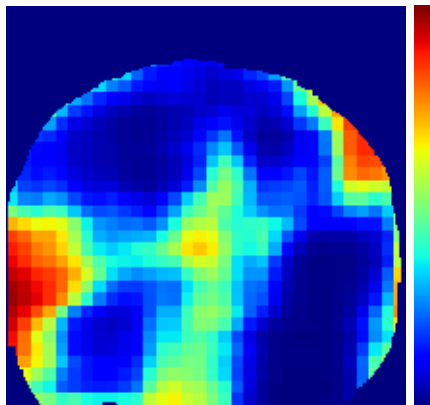
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Gleason 4



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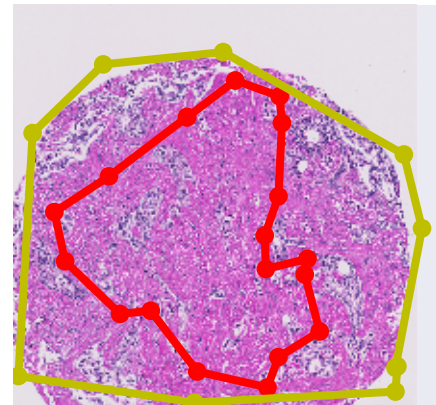
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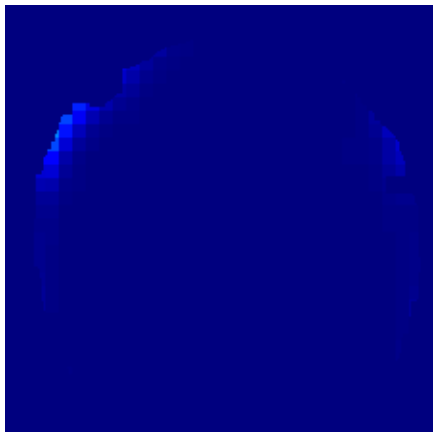
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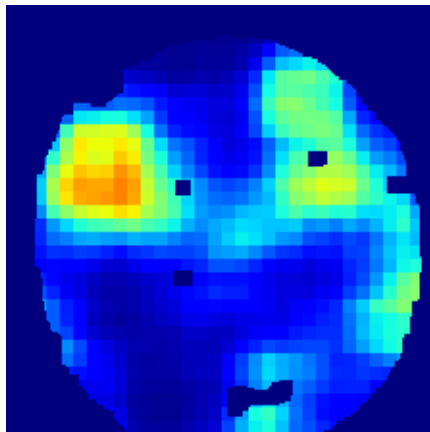
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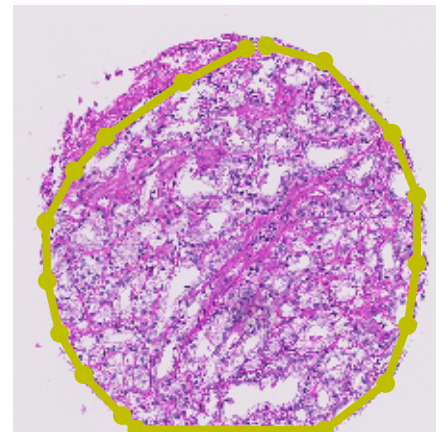
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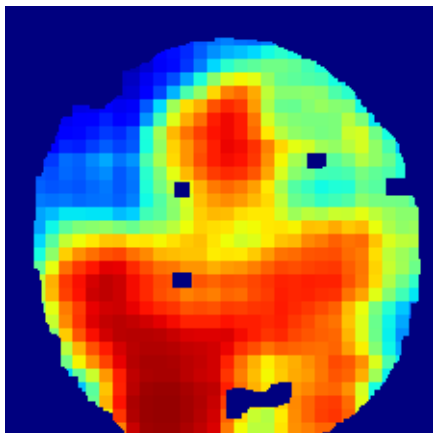
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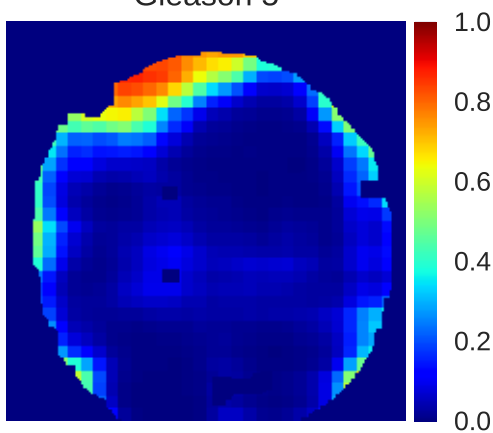
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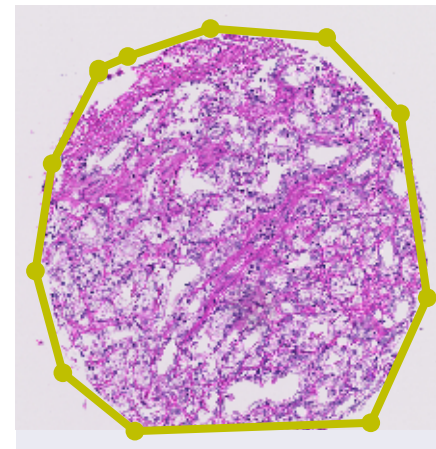
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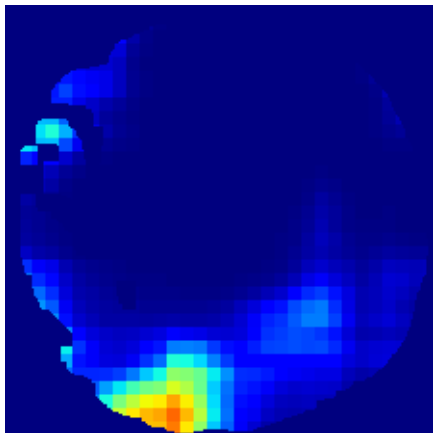
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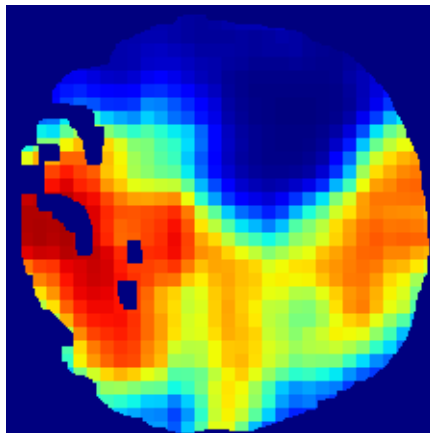
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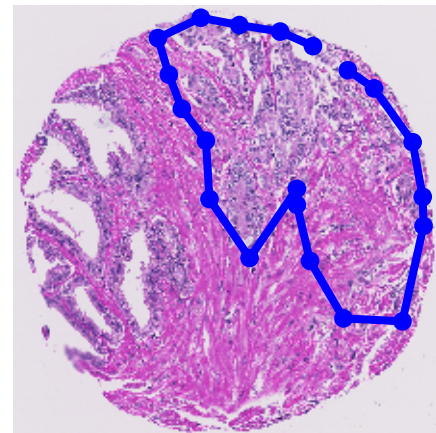
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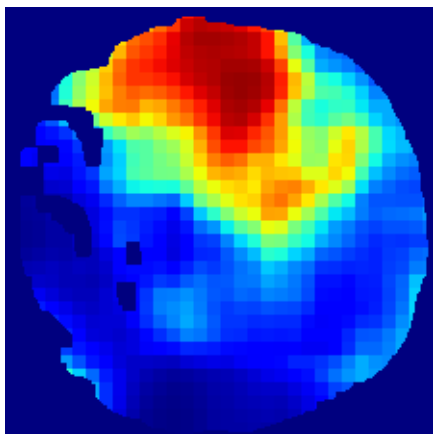
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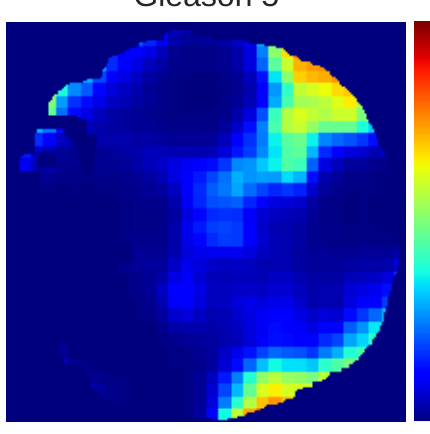
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Gleason 4



Gleason 5



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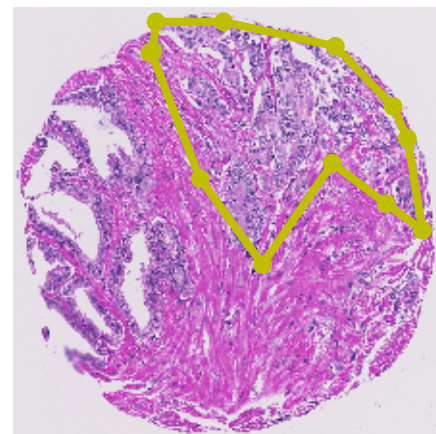
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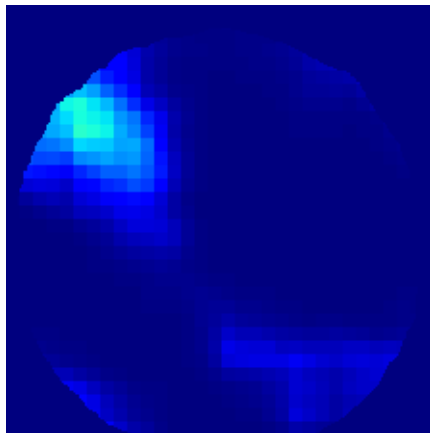
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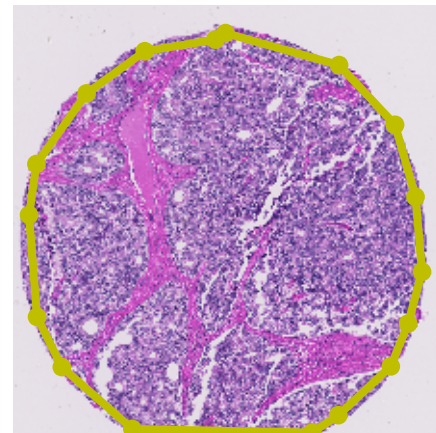
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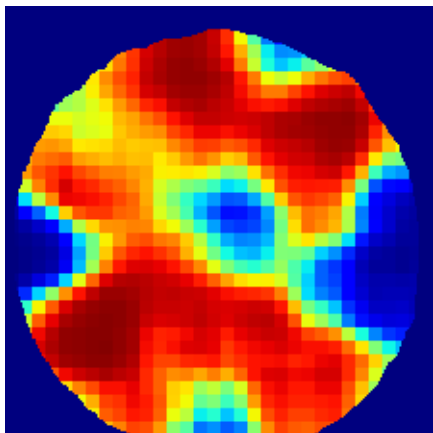
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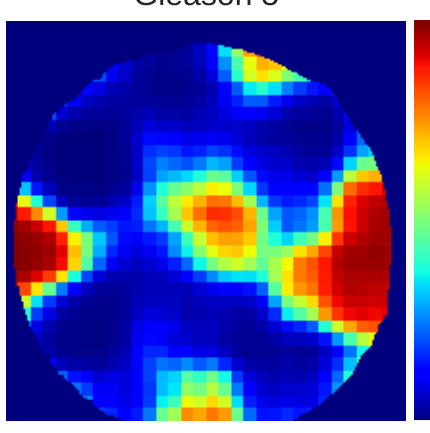
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Gleason 4



Gleason 5



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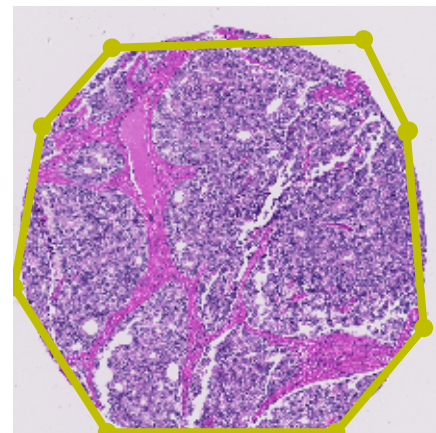
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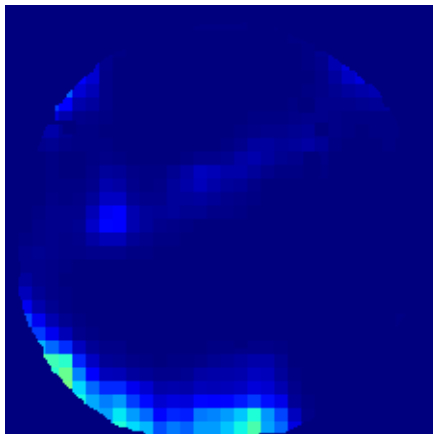
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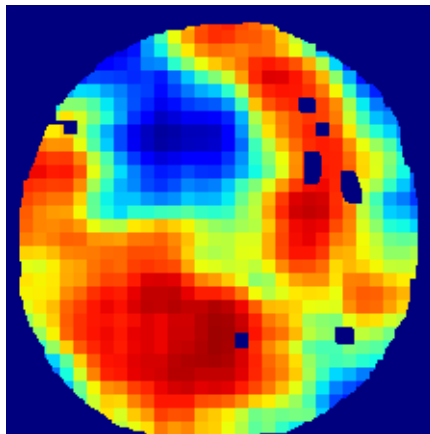
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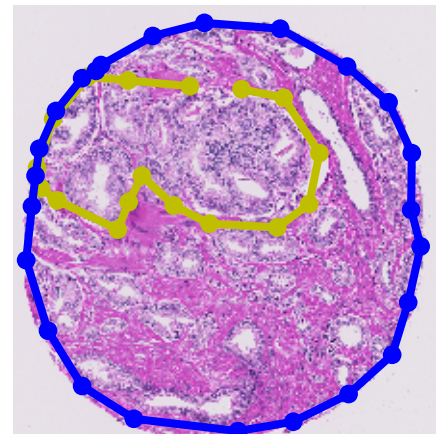
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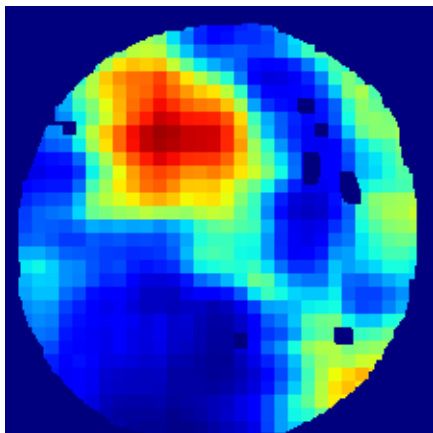
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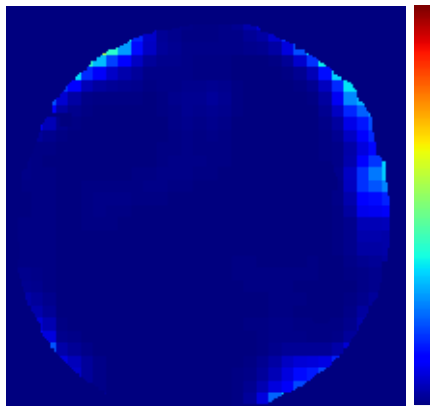
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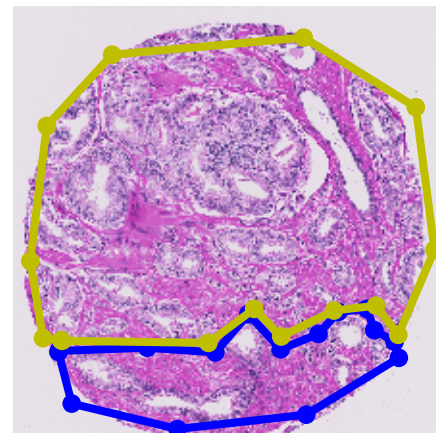
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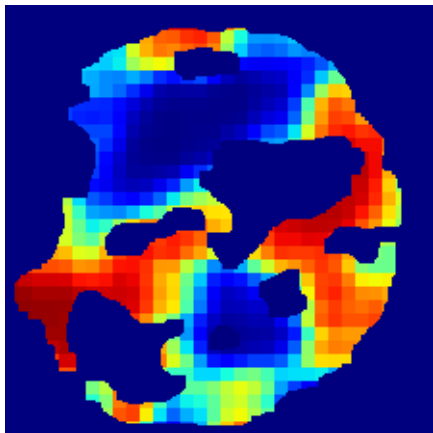
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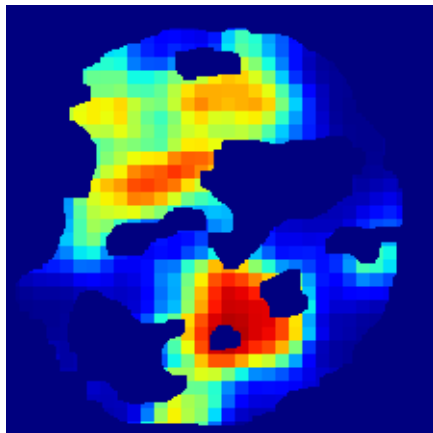
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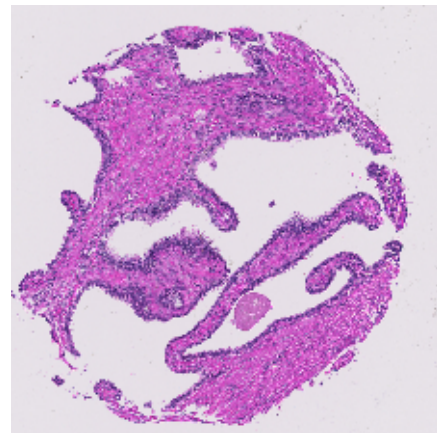
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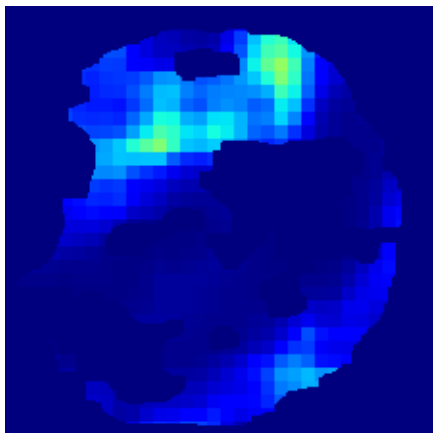
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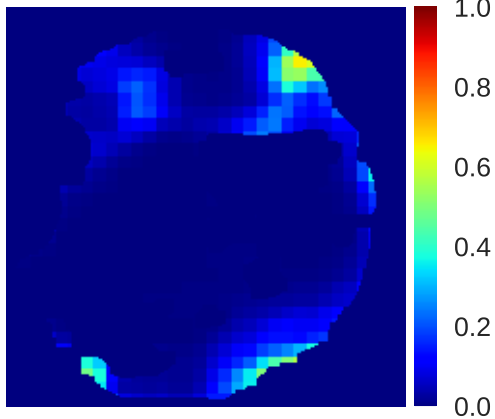
Pathologist 1



Gleason 4



Gleason 5



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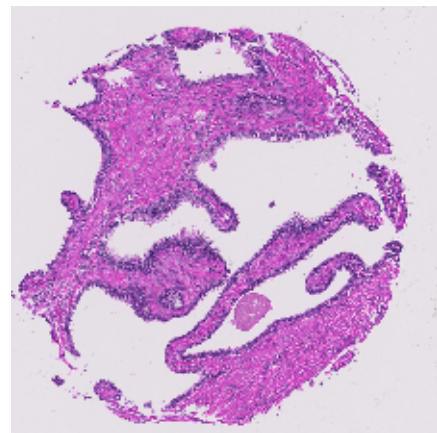
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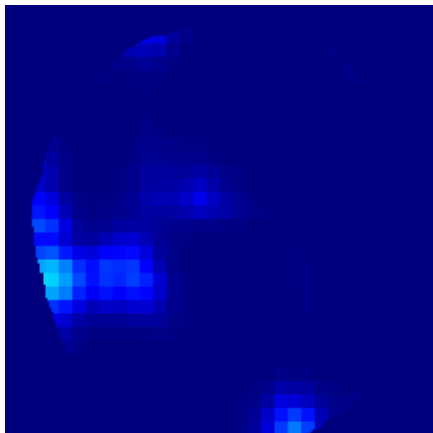
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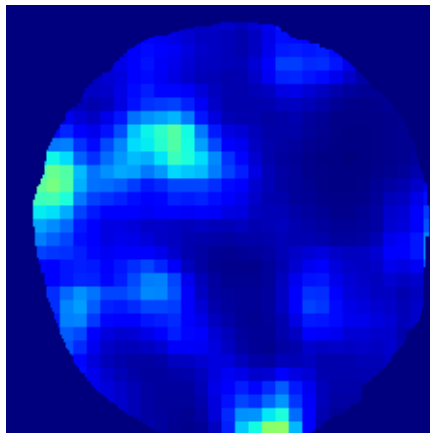
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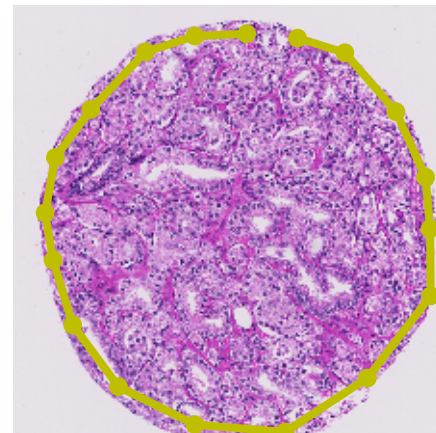
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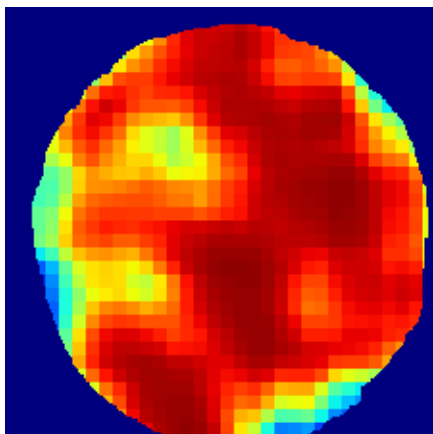
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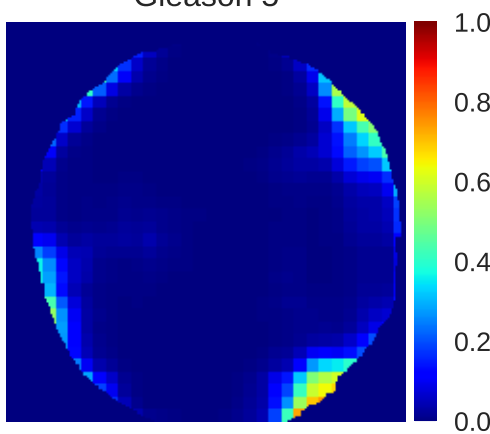
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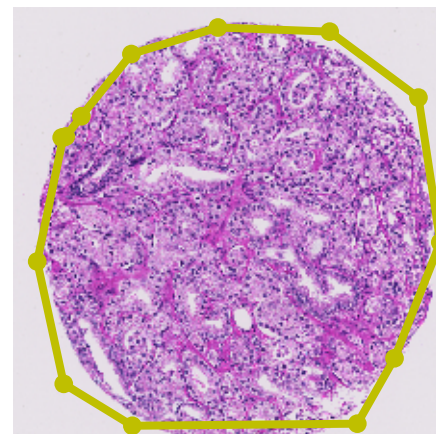
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Gleason 5



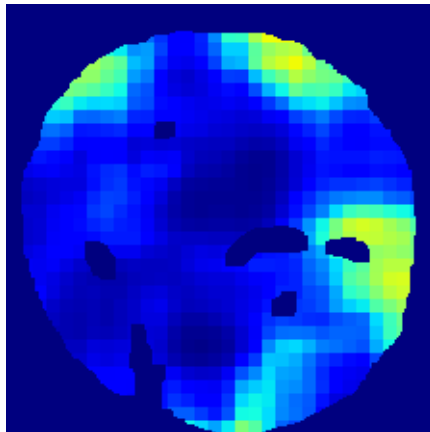
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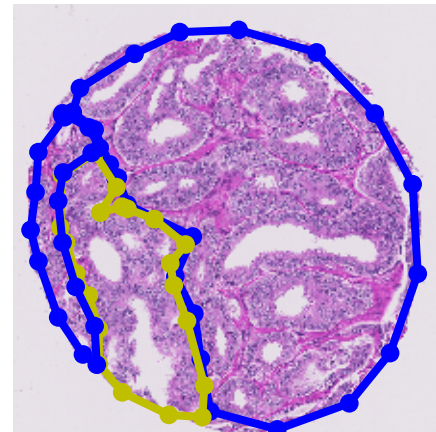
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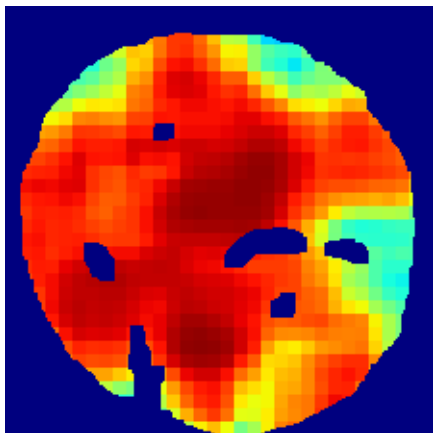
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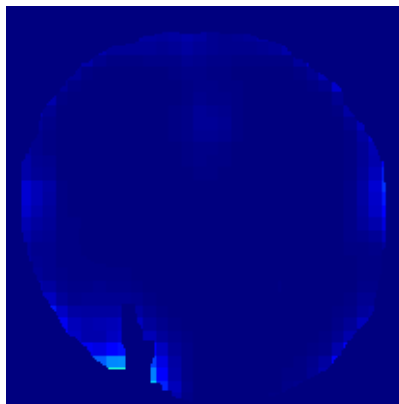
Pathologist 1



Gleason 4



Gleason 5



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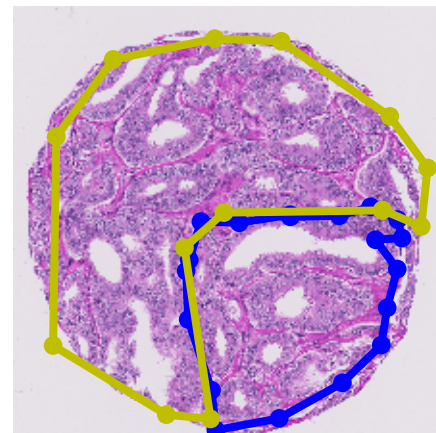
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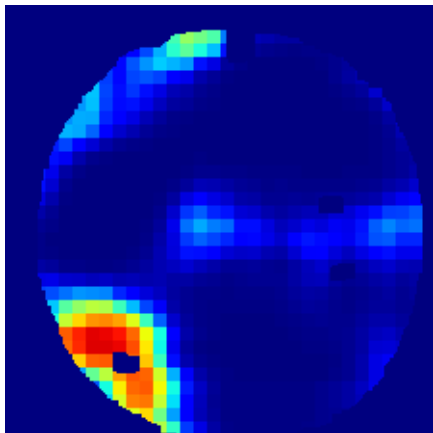
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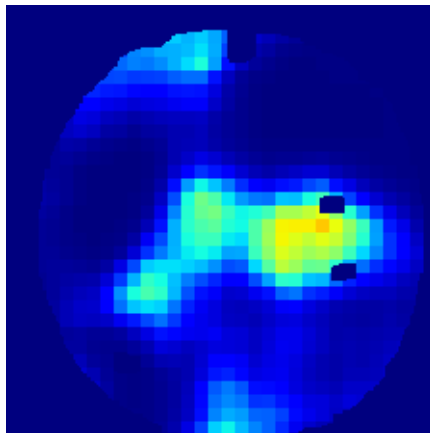
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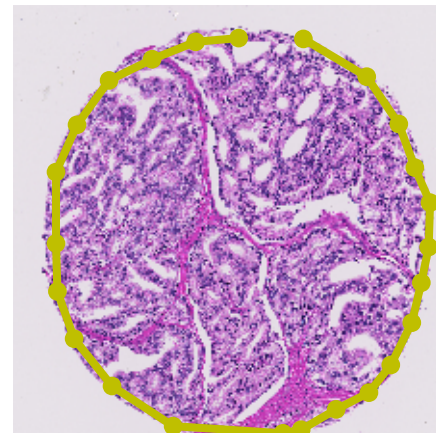
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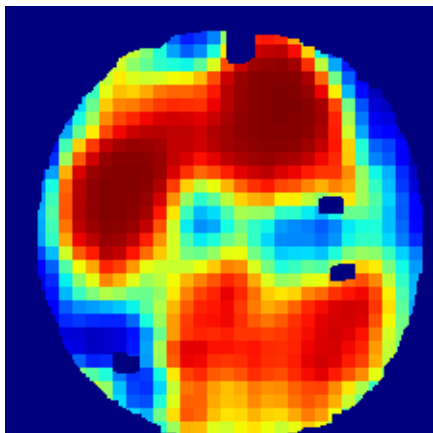
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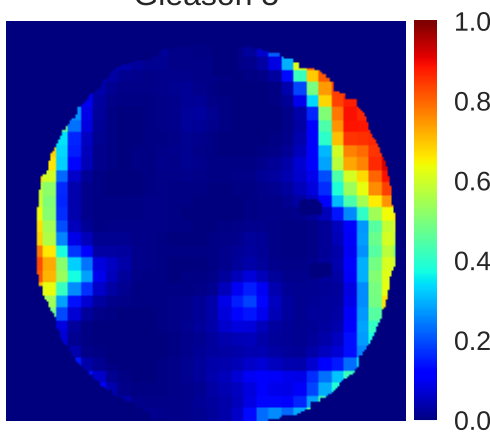
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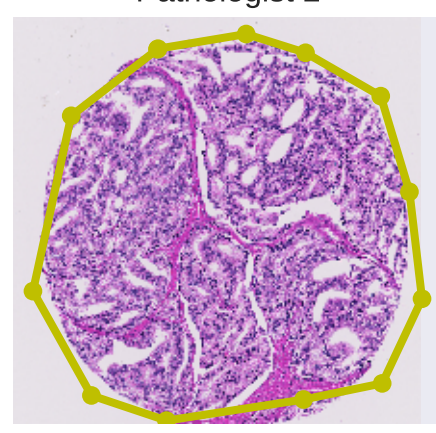
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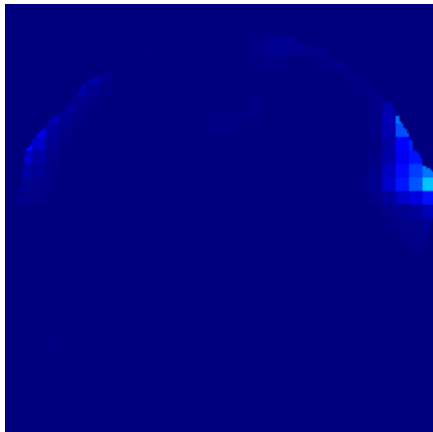
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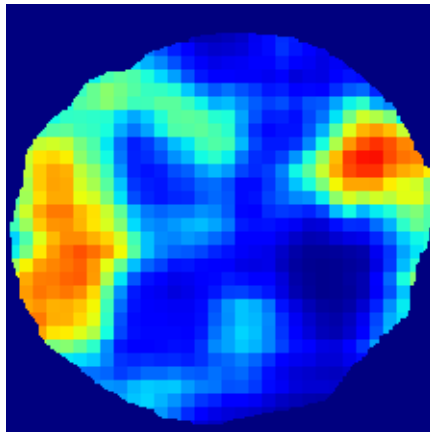
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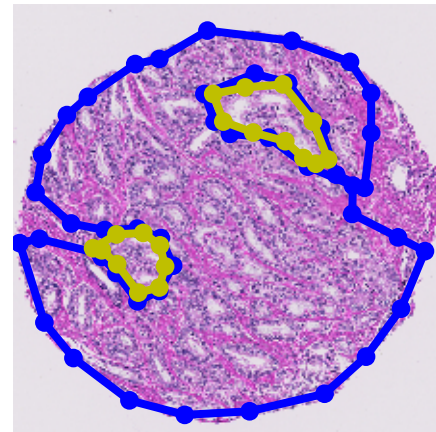
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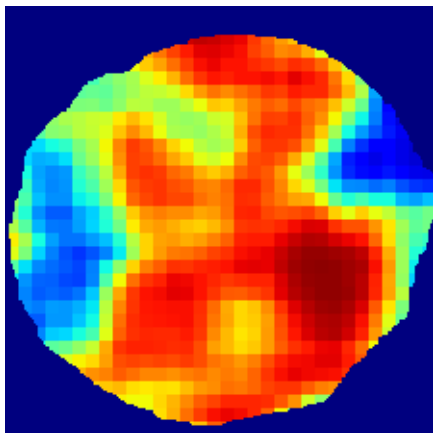
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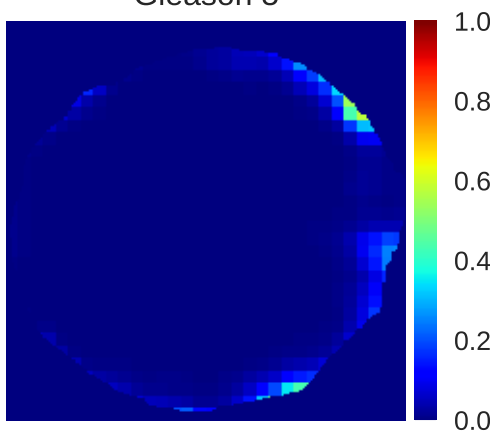
Pathologist 1



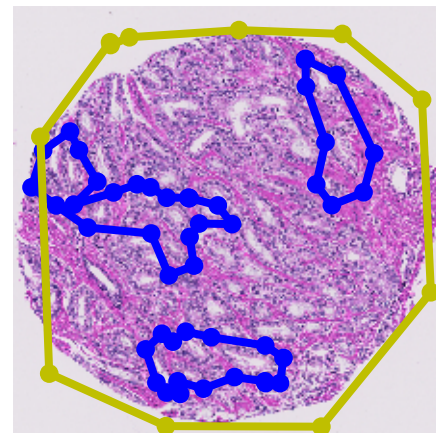
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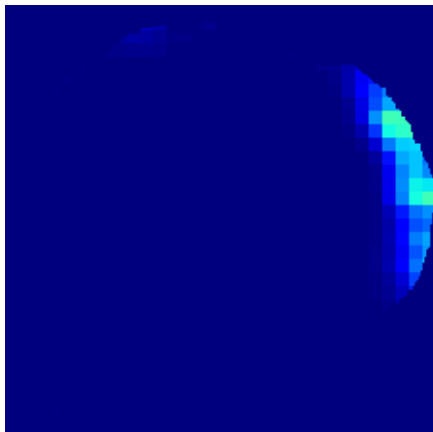
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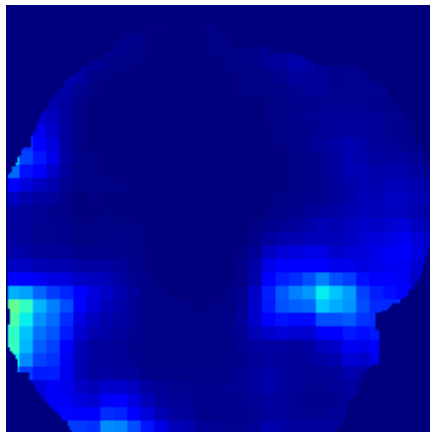
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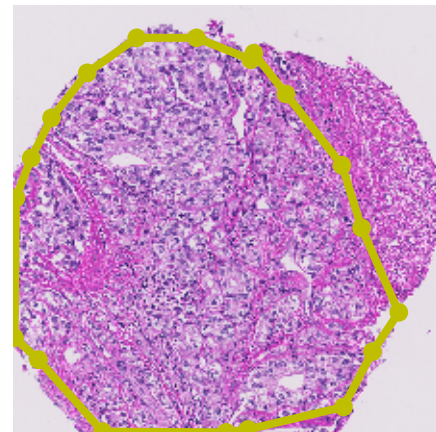
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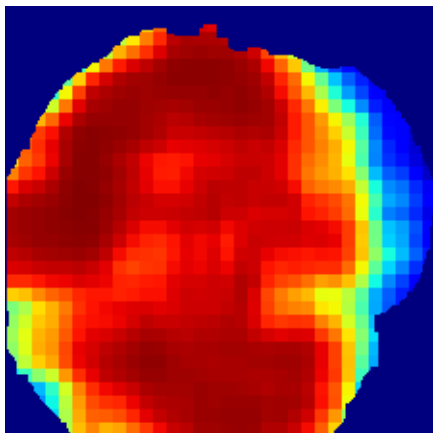
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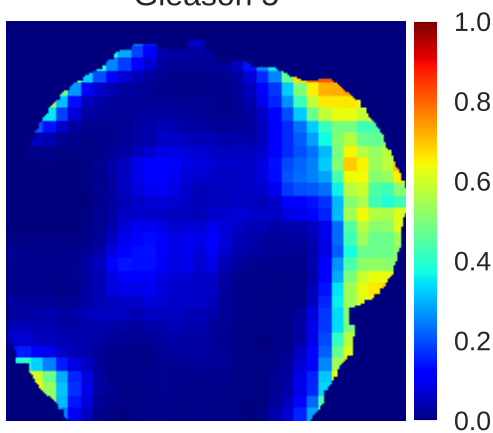
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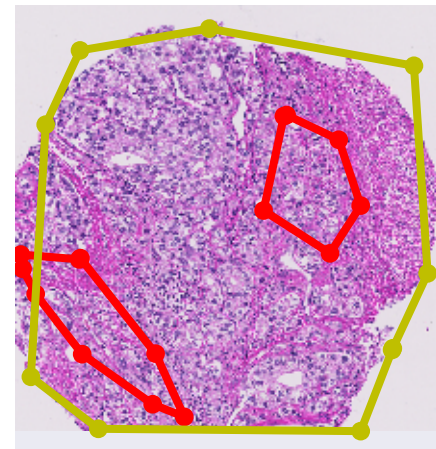
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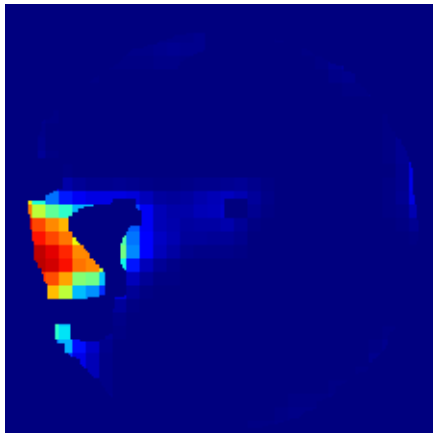
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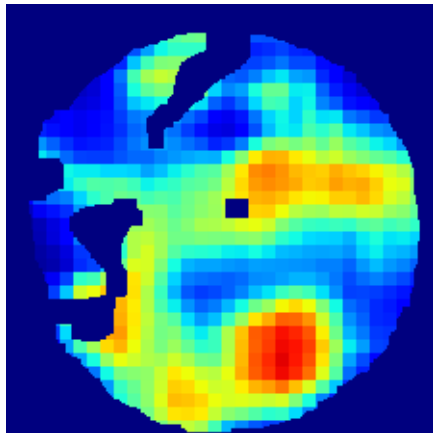
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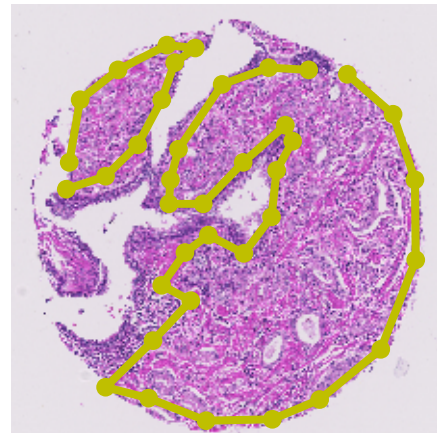
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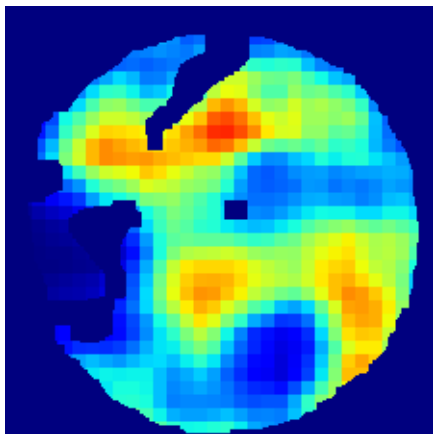
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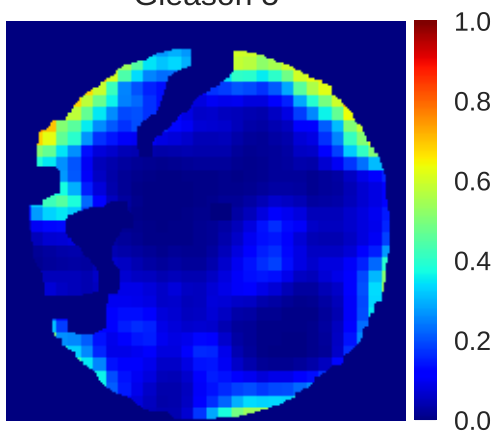
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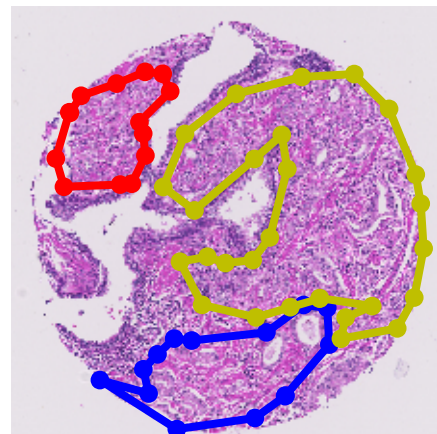
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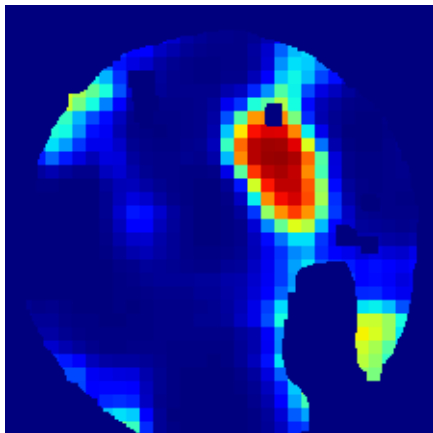
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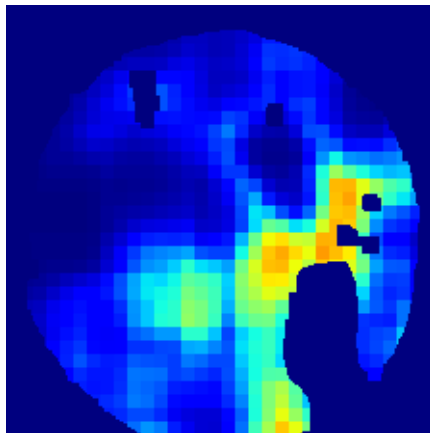
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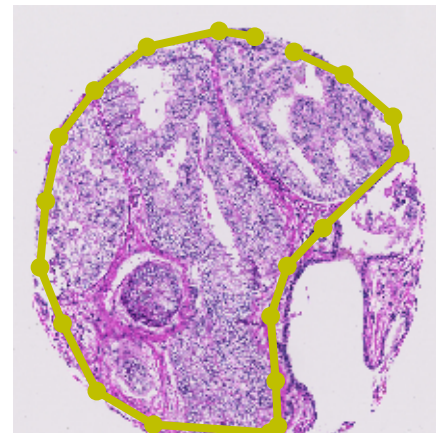
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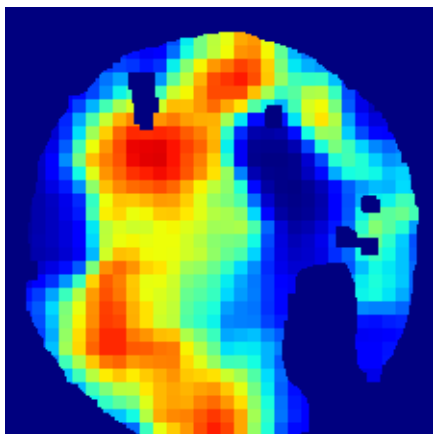
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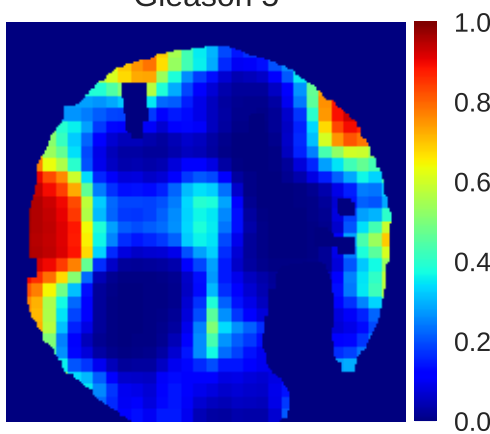
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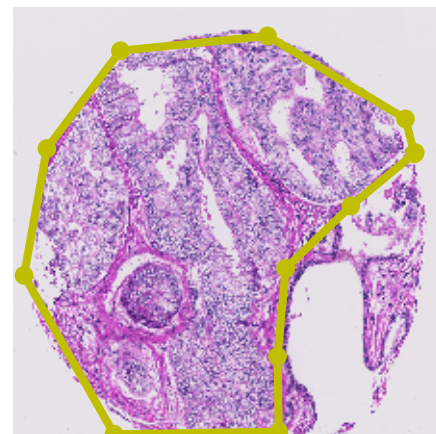
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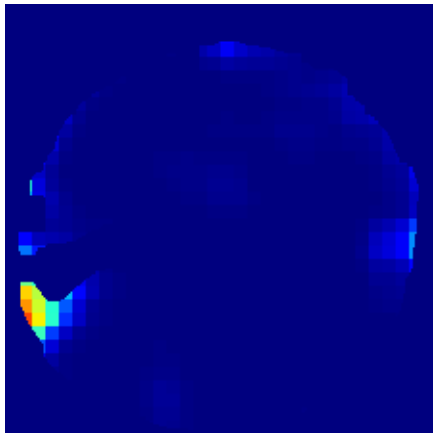
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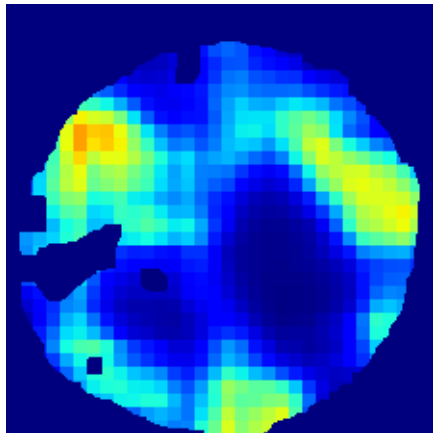
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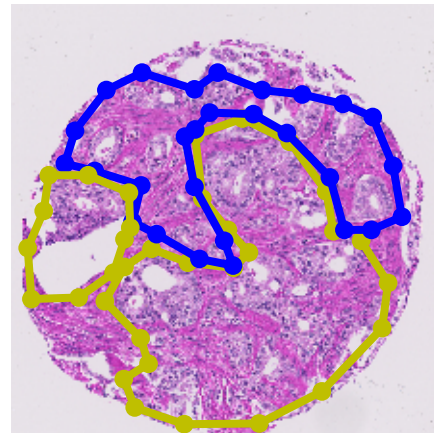
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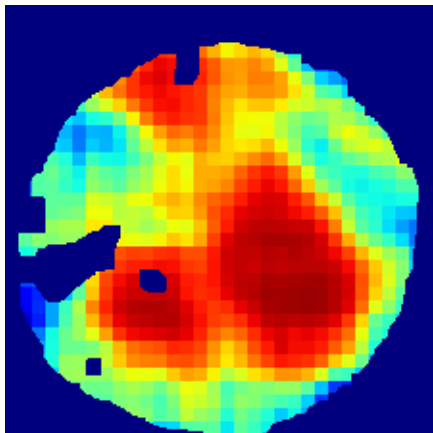
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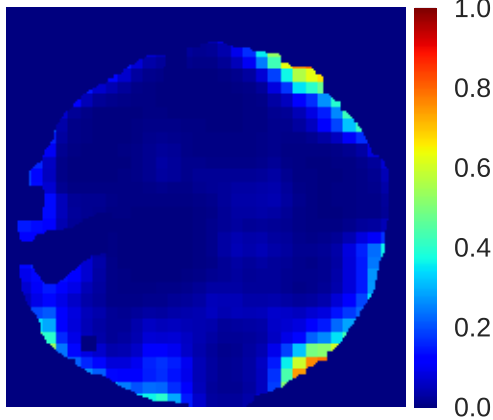
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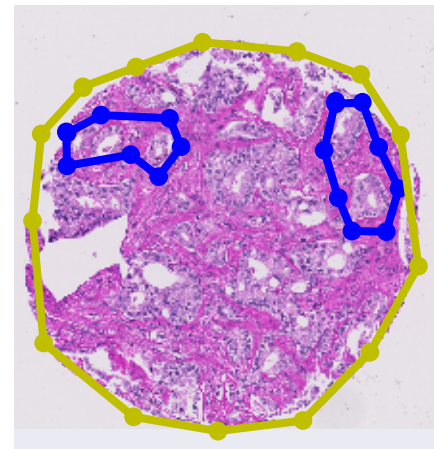
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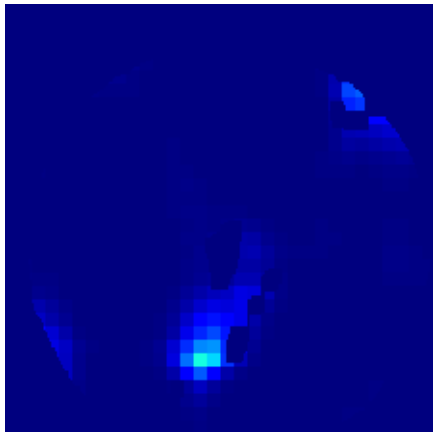
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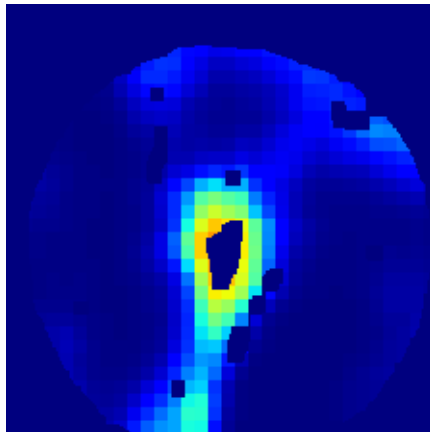
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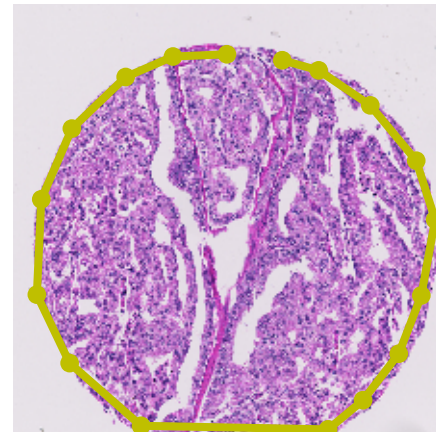
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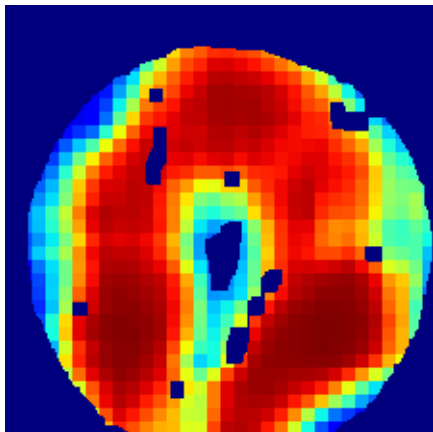
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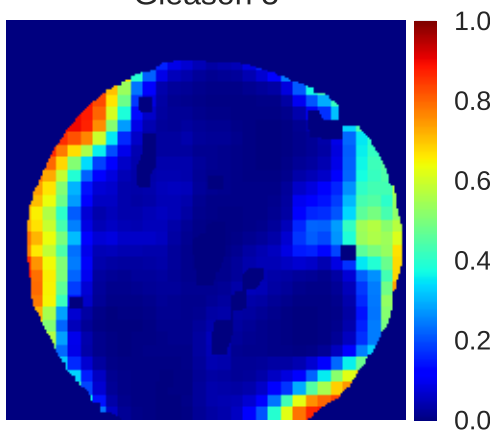
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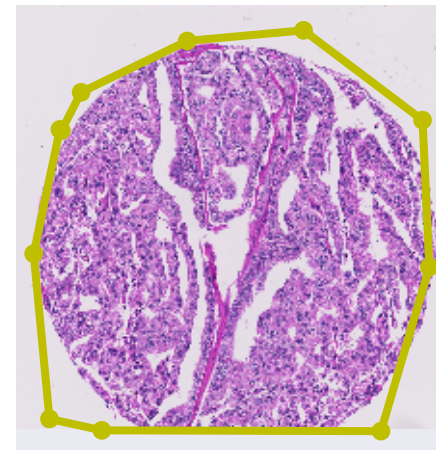
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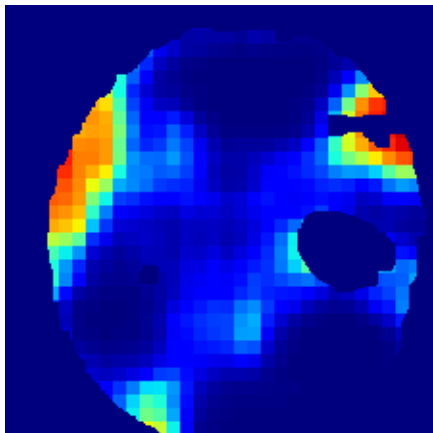
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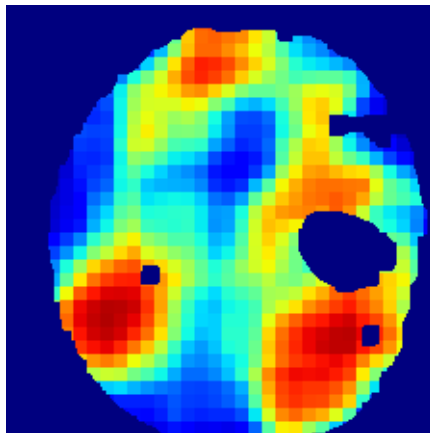
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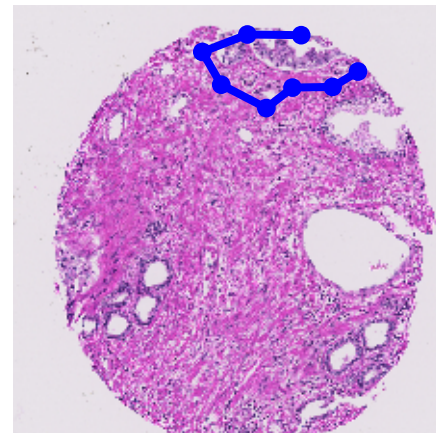
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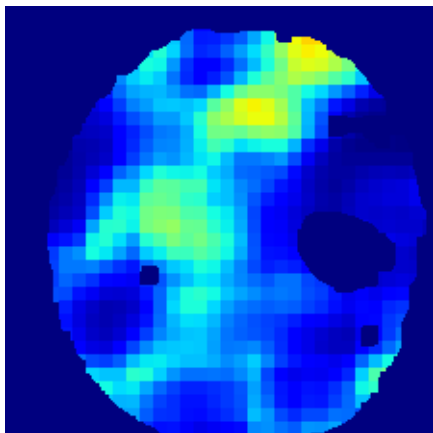
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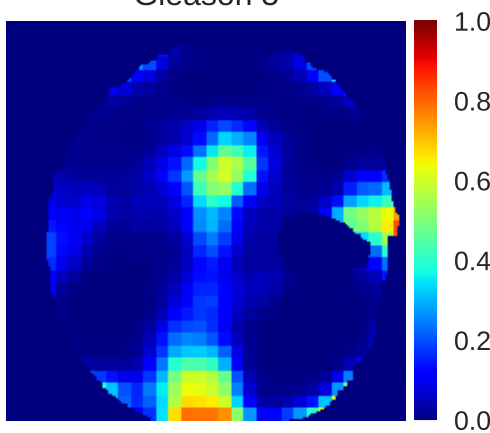
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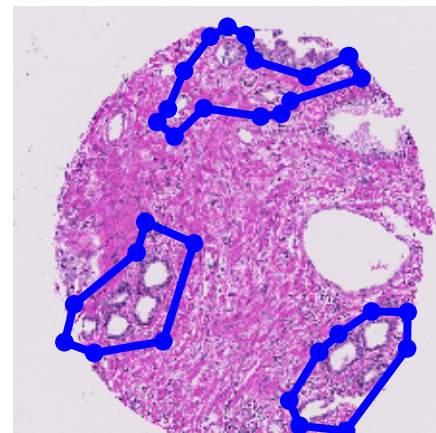
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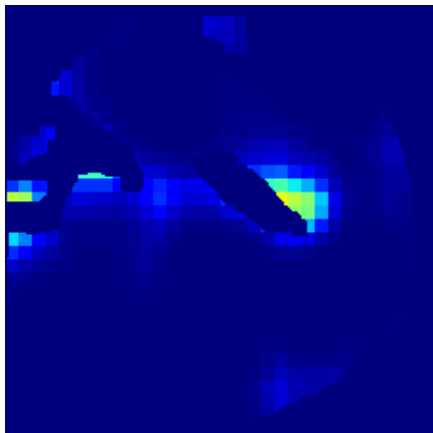
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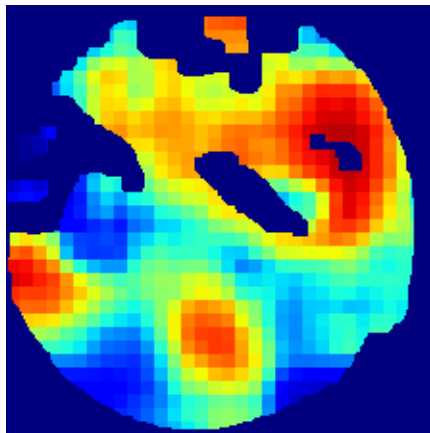
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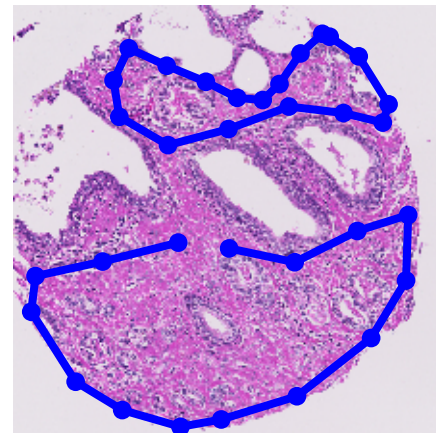
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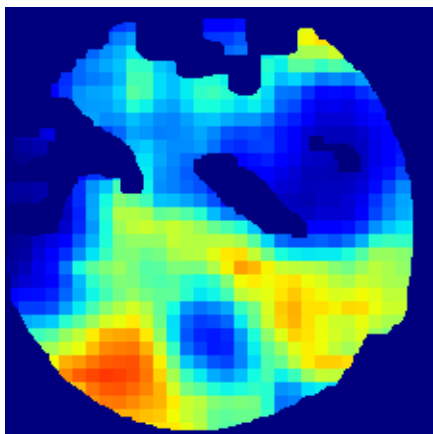
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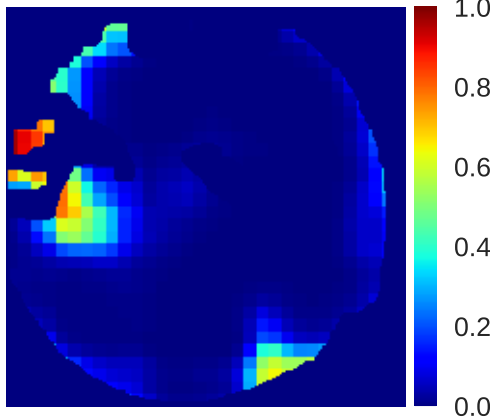
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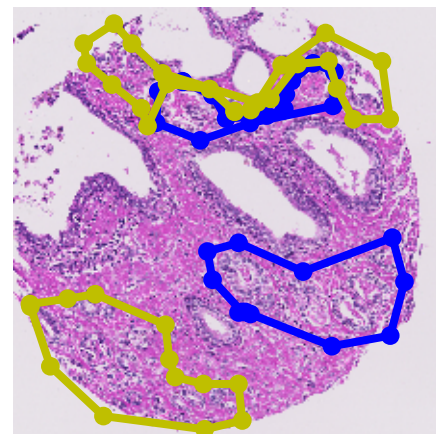
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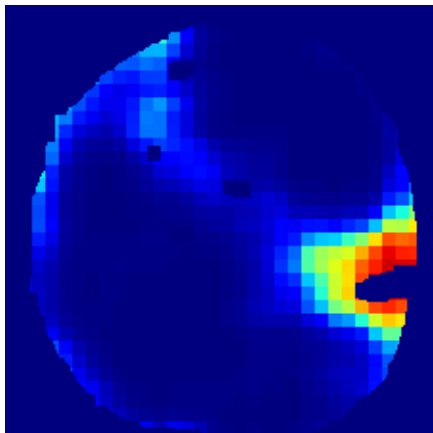
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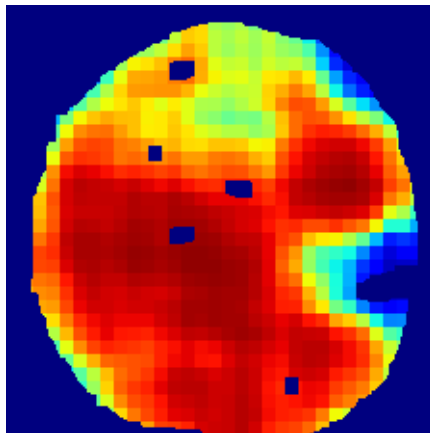
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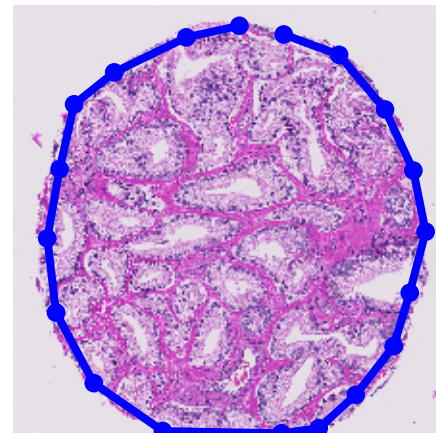
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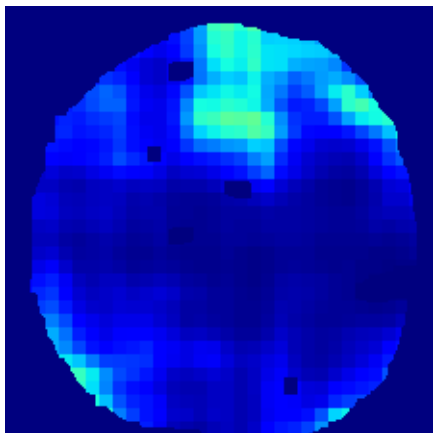
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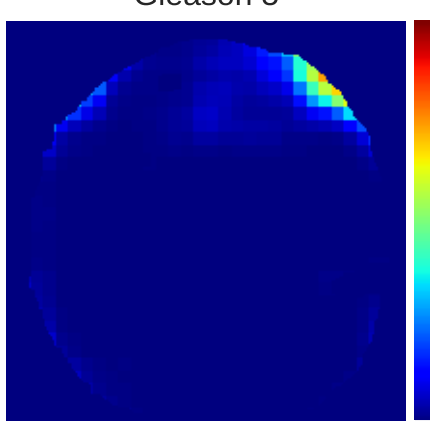
Pathologist 1



Gleason 4



Gleason 5



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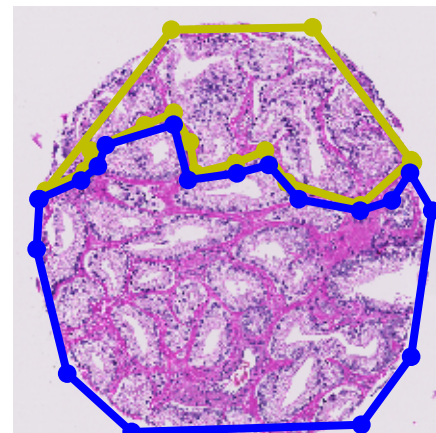
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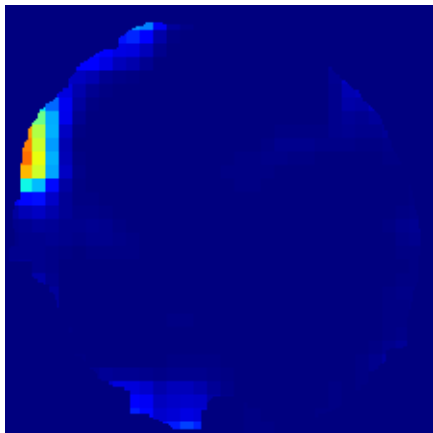
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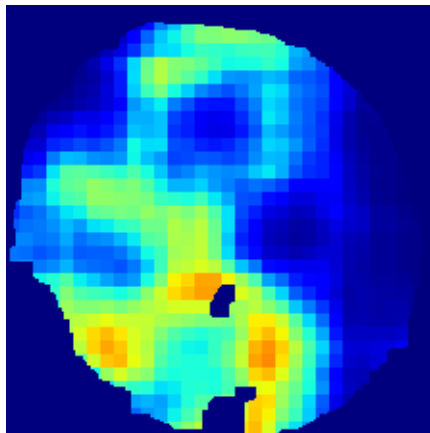
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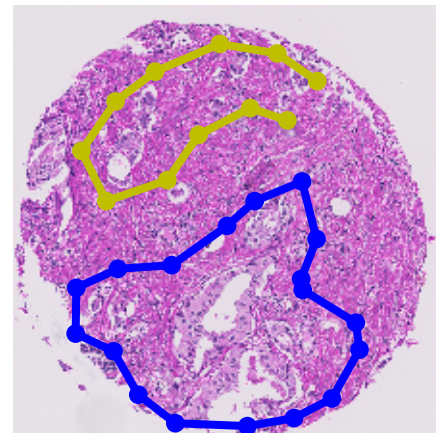
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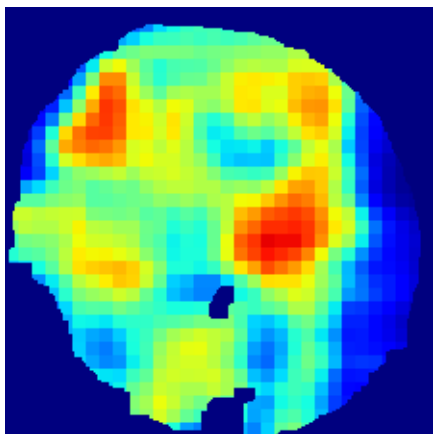
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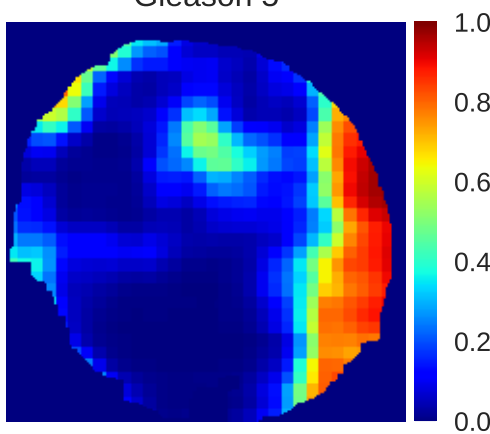
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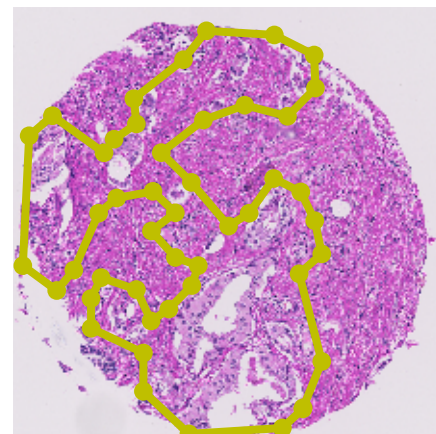
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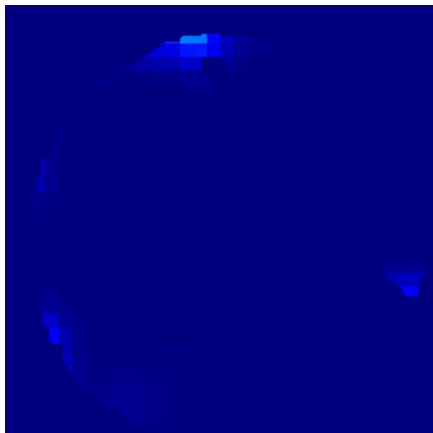
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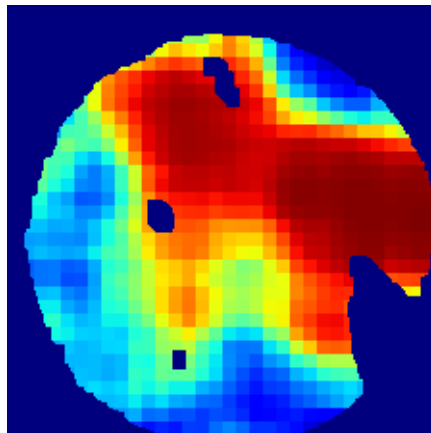
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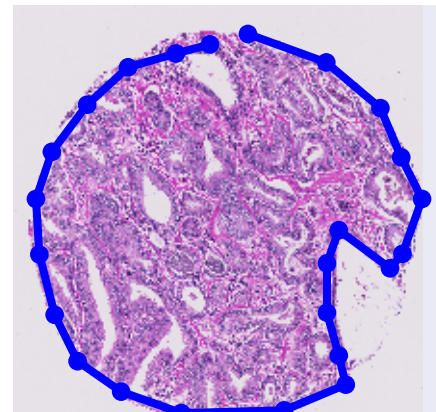
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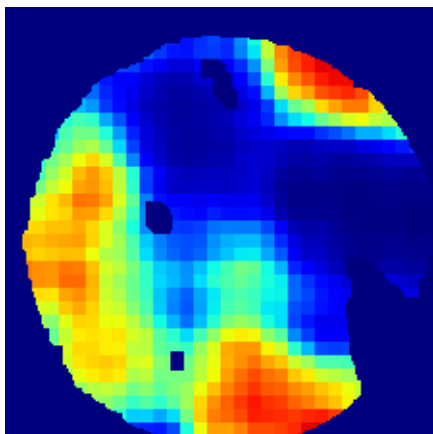
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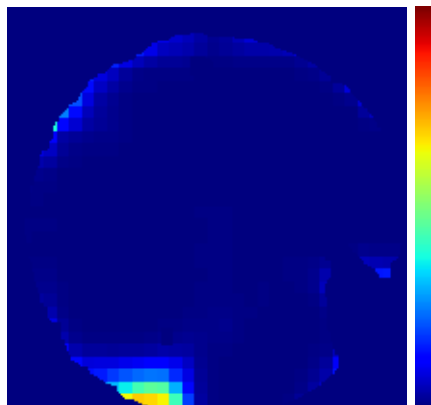
Pathologist 1



Gleason 4



Gleason 5



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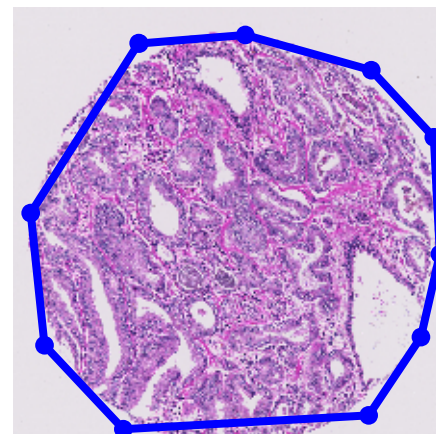
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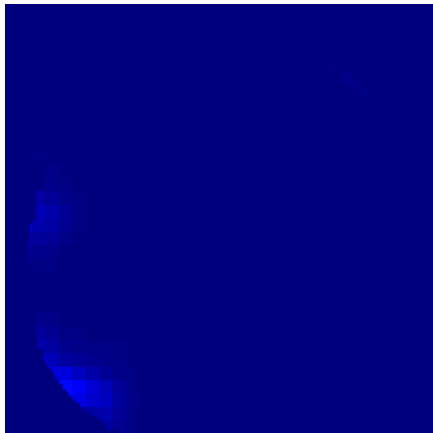
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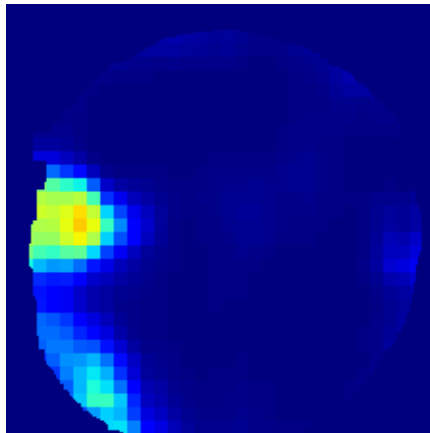
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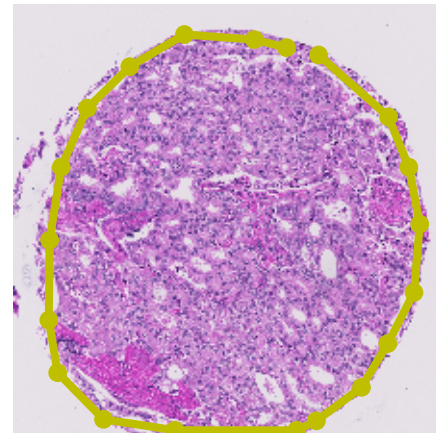
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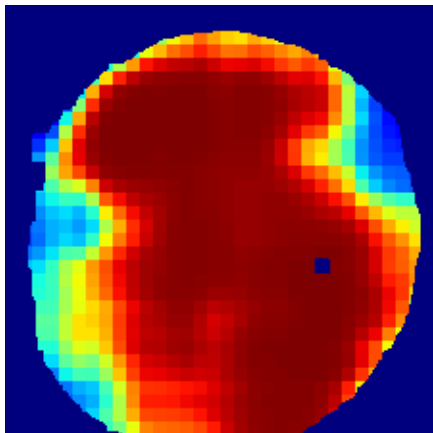
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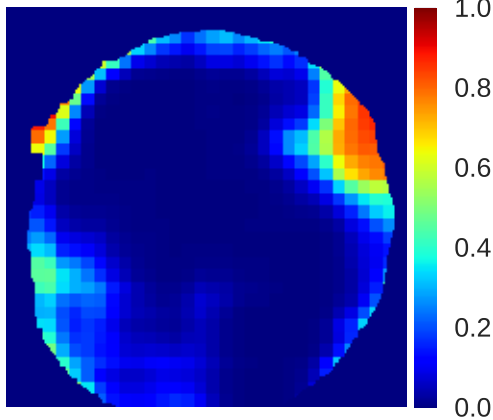
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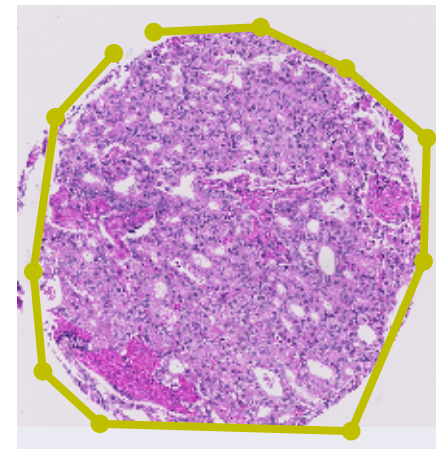
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Gleason 5



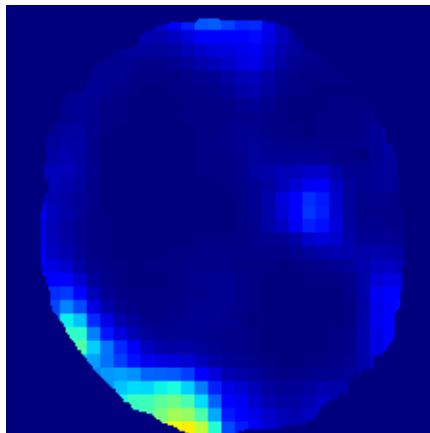
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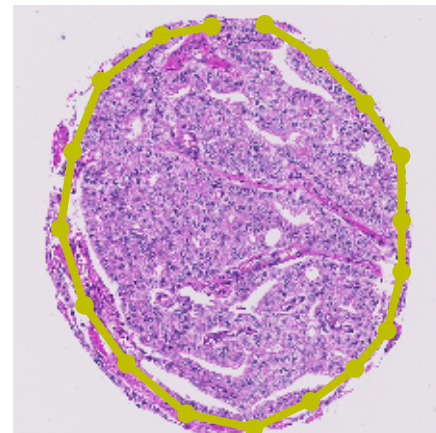
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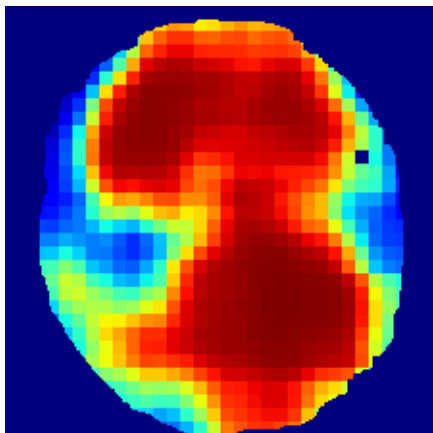
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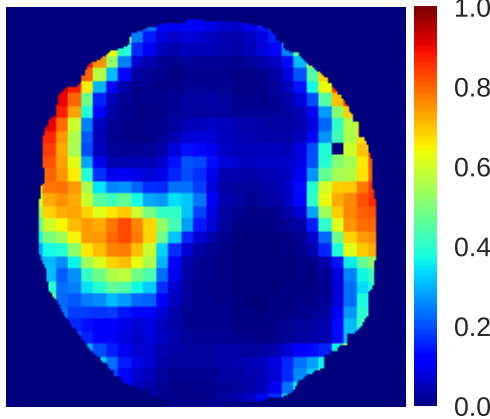
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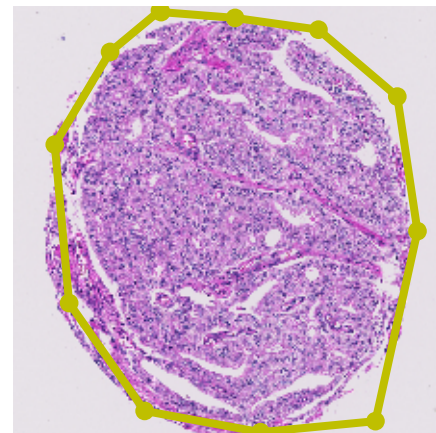
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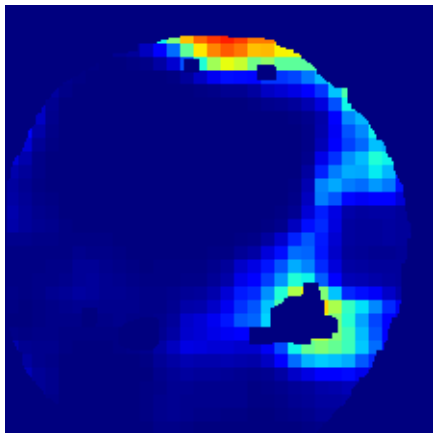
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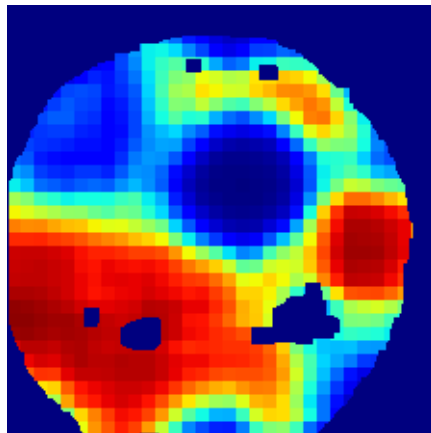
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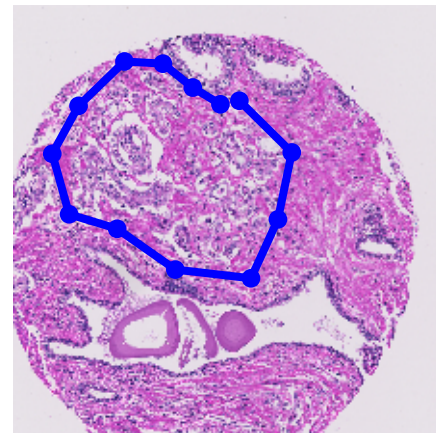
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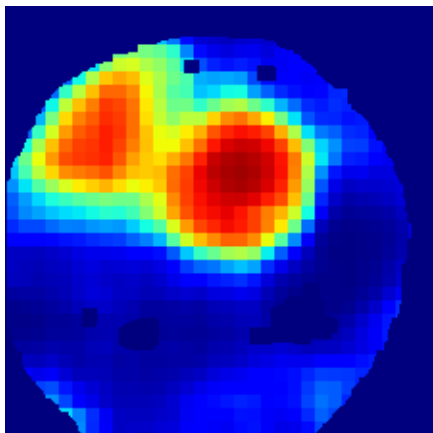
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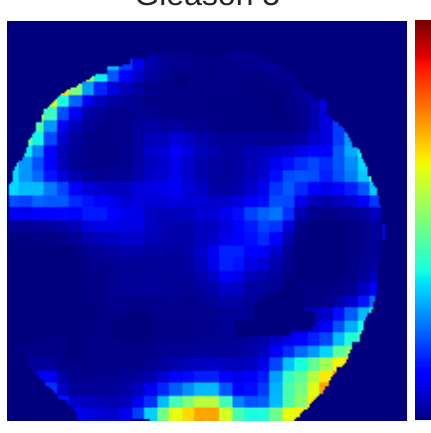
Pathologist 1



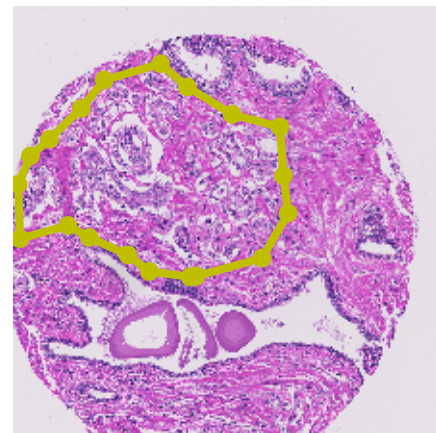
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Gleason 5



Pathologist 2



1.0

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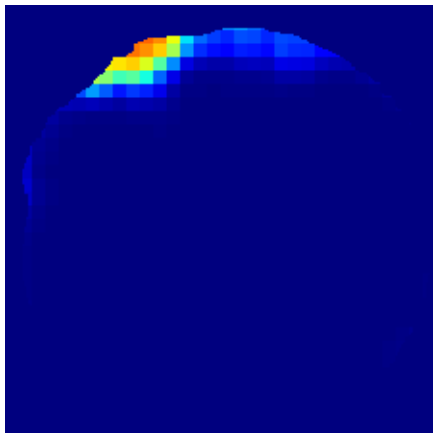
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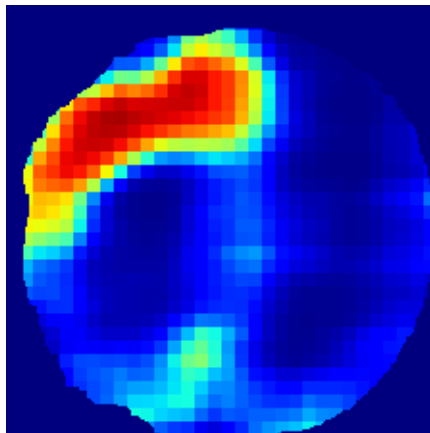
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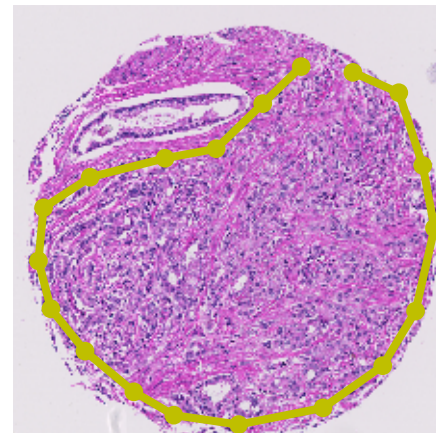
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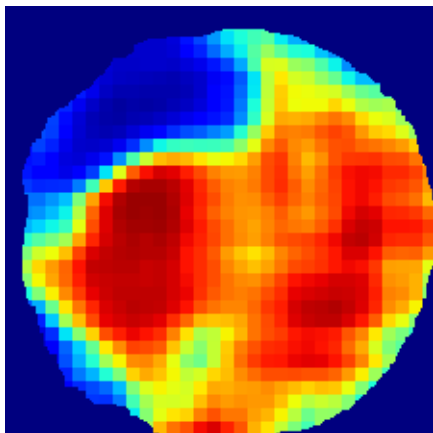
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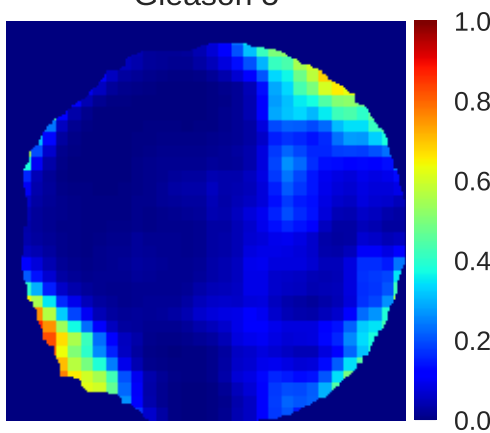
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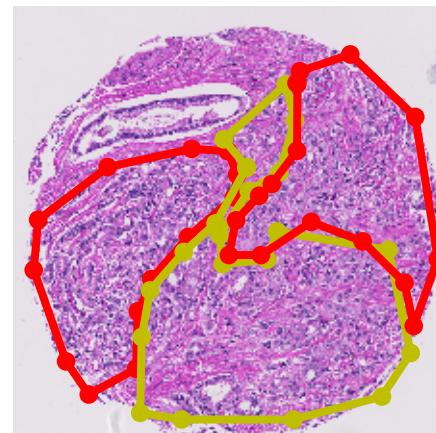
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Gleason 5



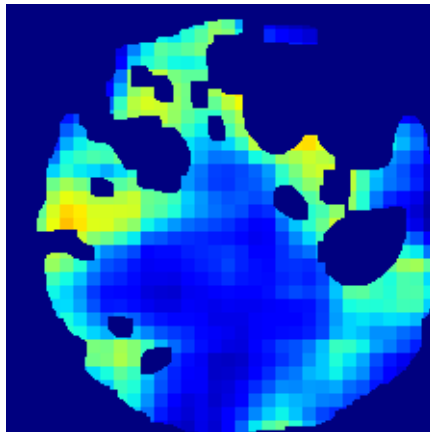
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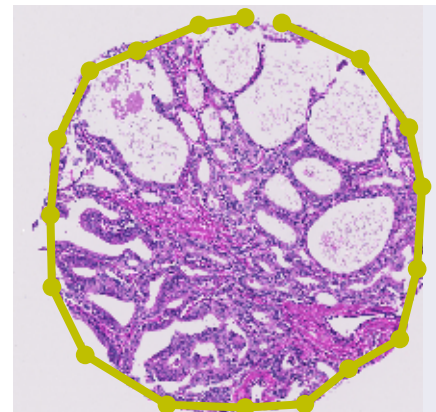
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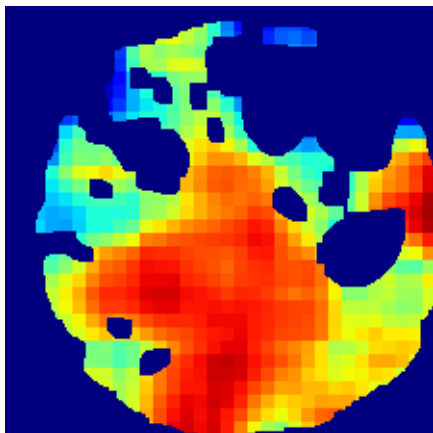
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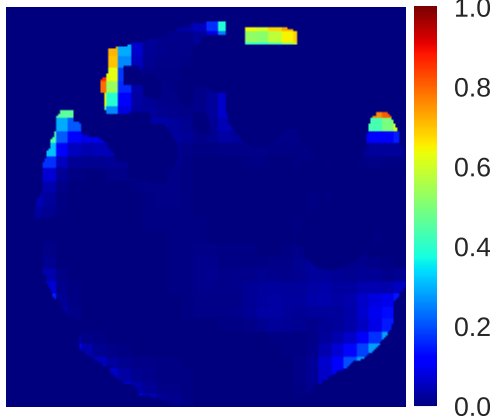
Pathologist 1



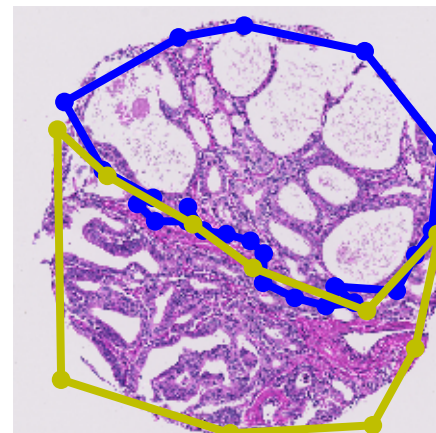
Gleason 4



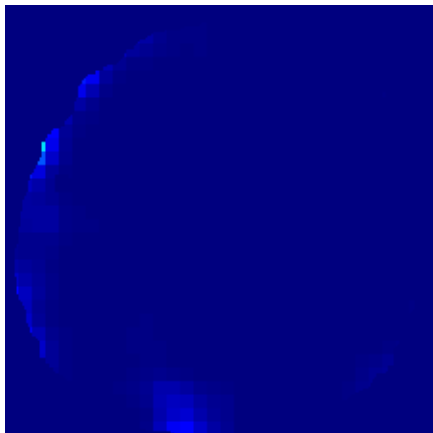
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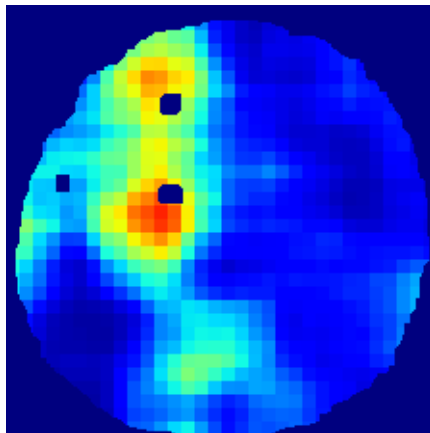
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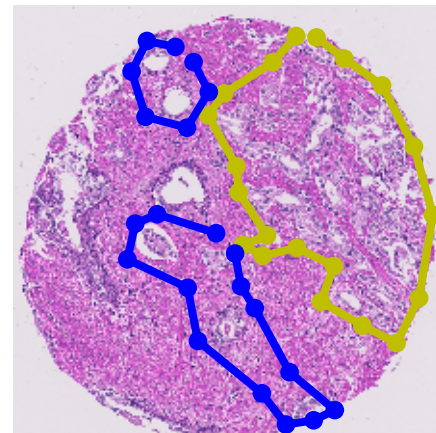
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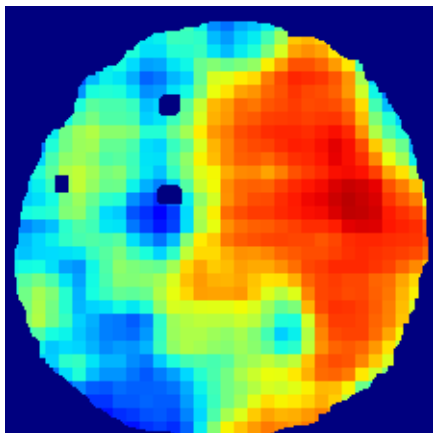
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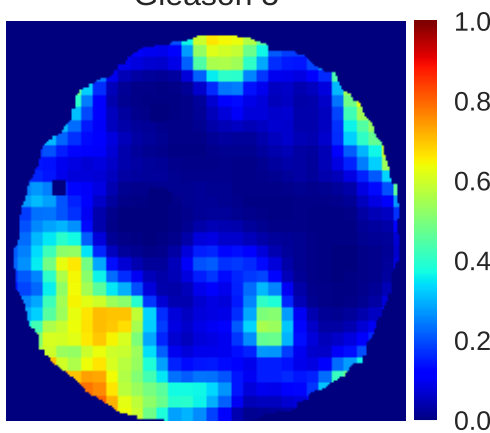
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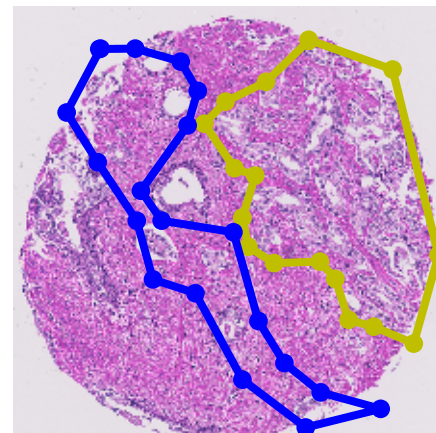
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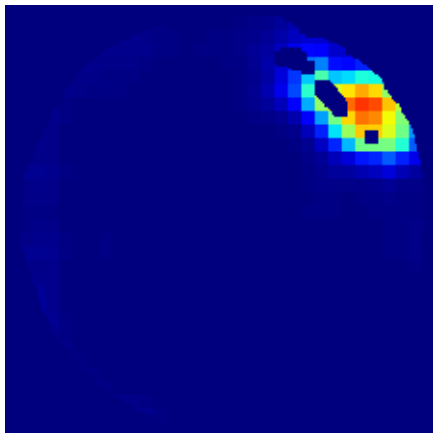
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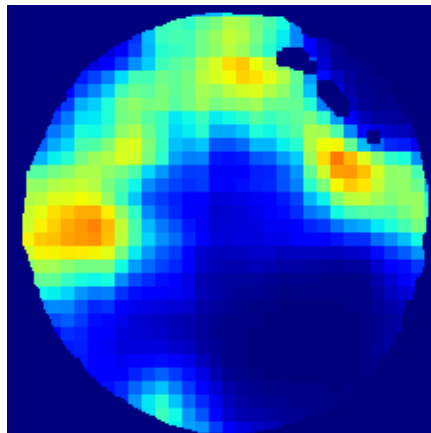
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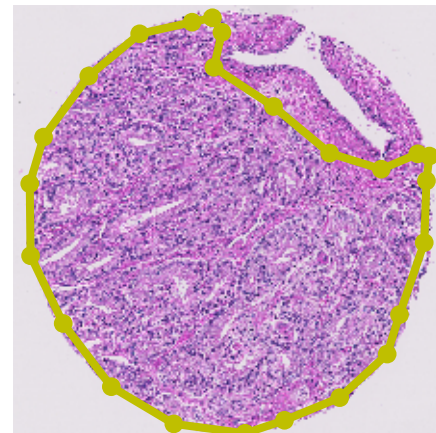
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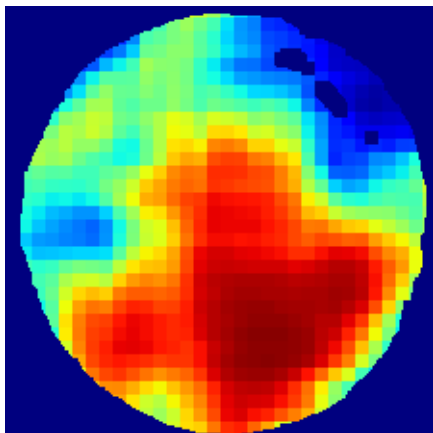
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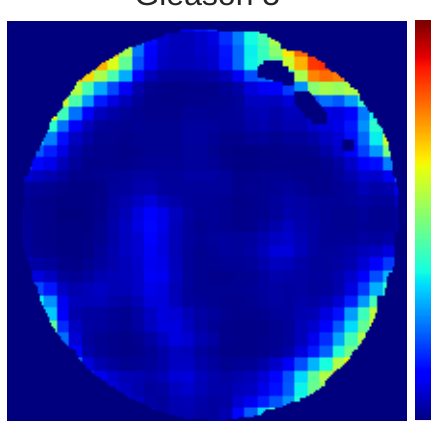
Pathologist 1



Gleason 4



Gleason 5



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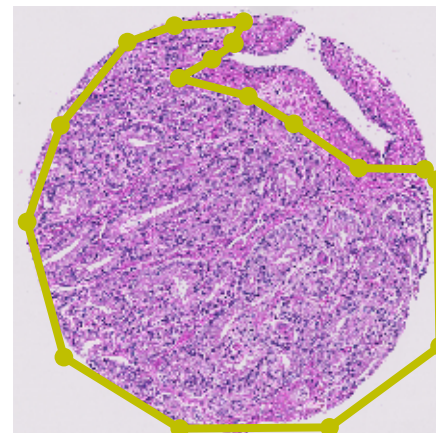
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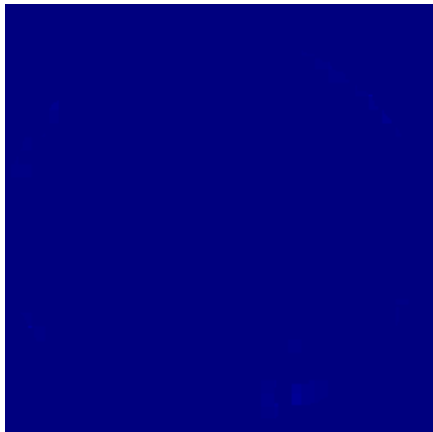
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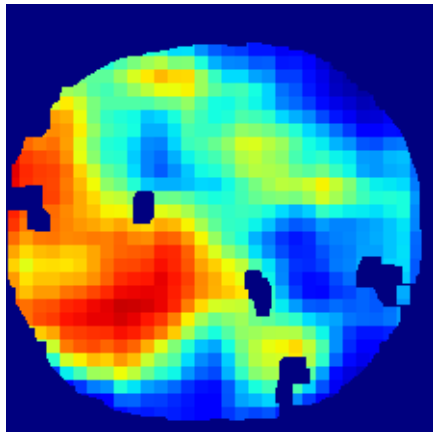
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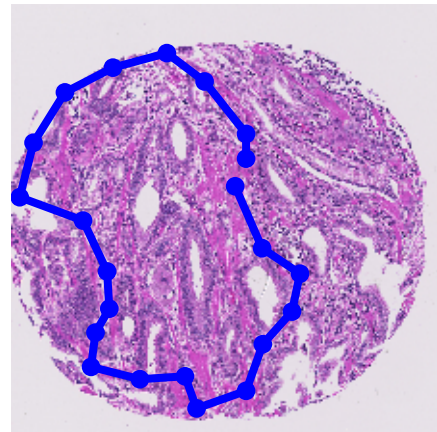
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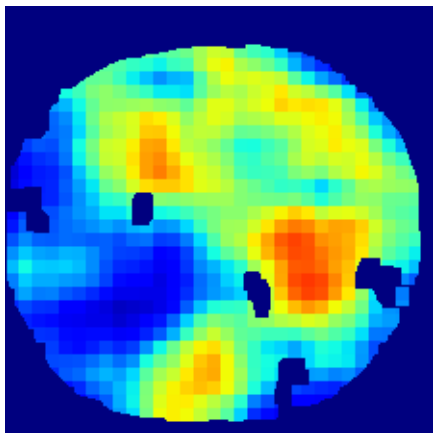
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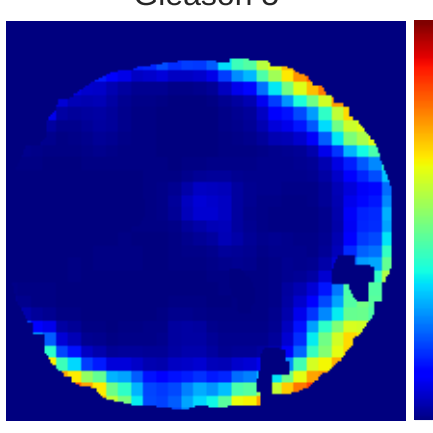
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Gleason 4



Gleason 5



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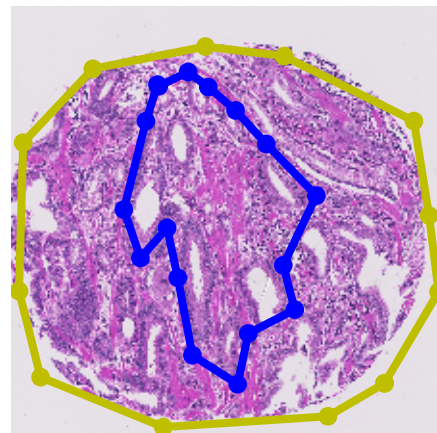
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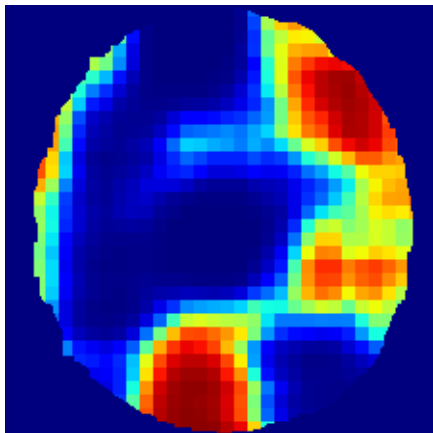
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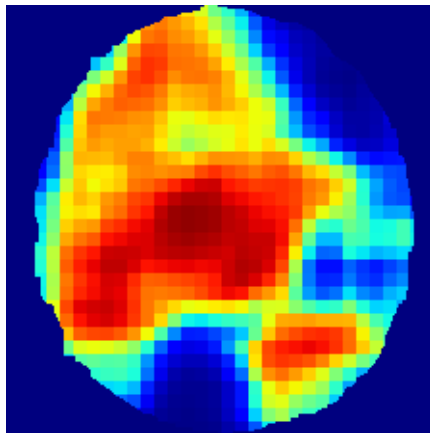
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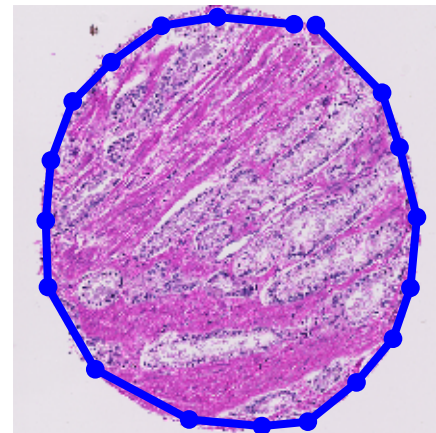
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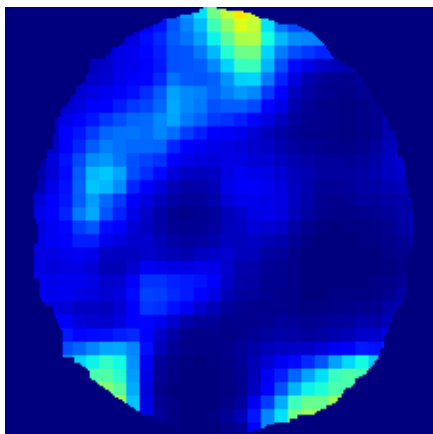
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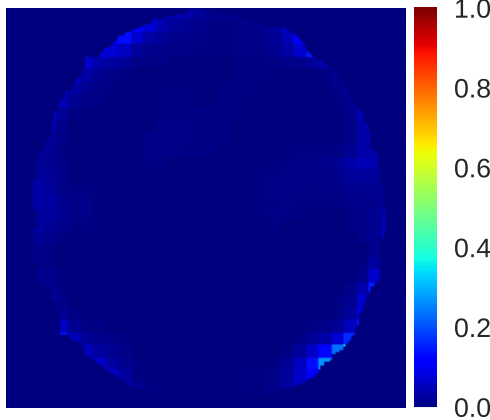
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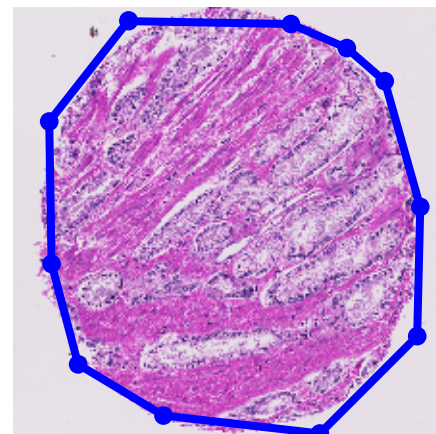
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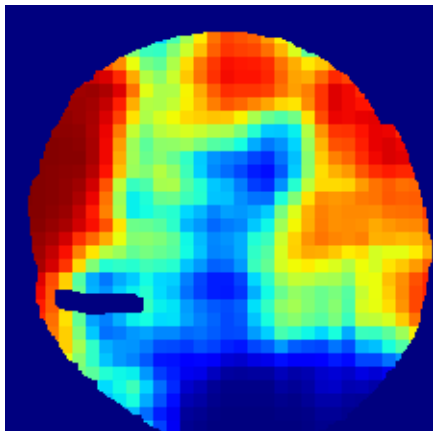
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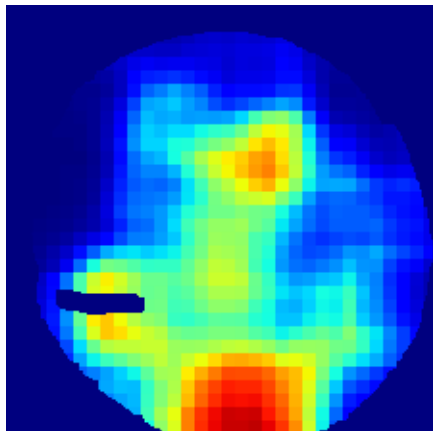
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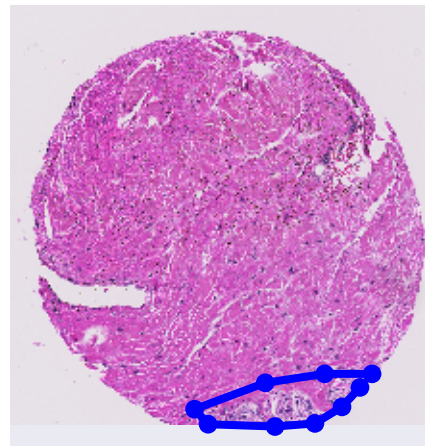
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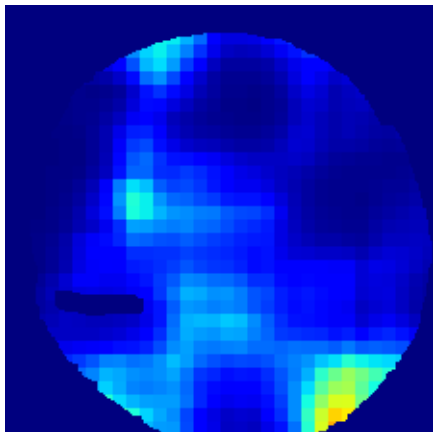
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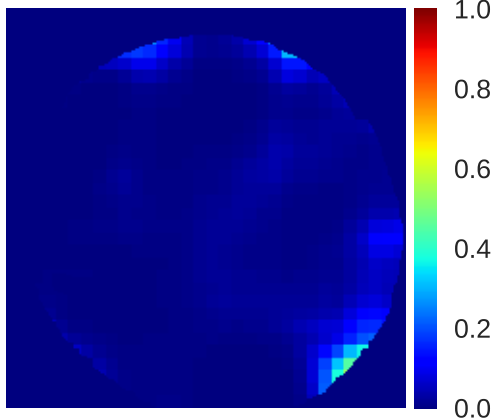
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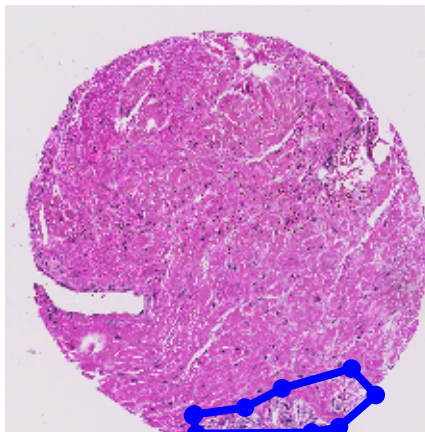
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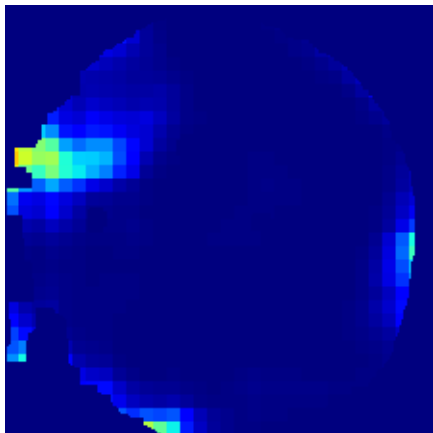
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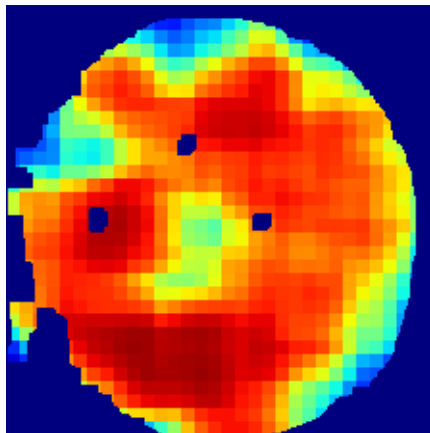
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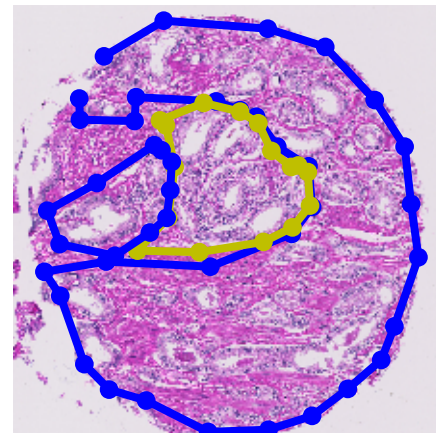
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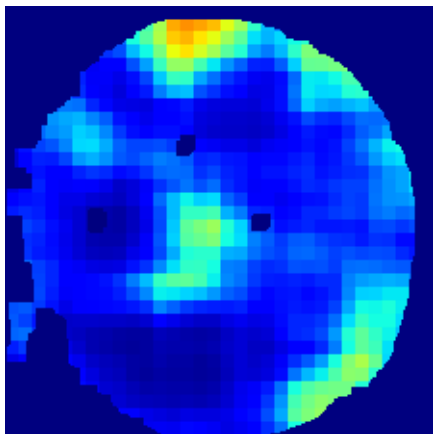
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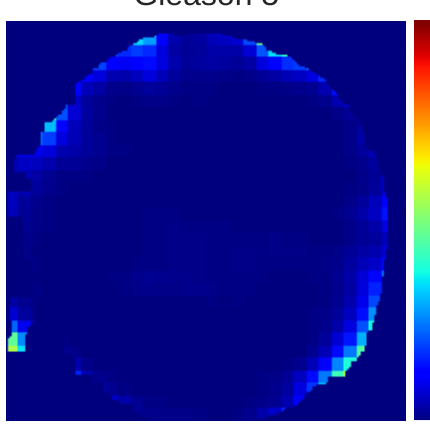
Pathologist 1



Gleason 4



Gleason 5



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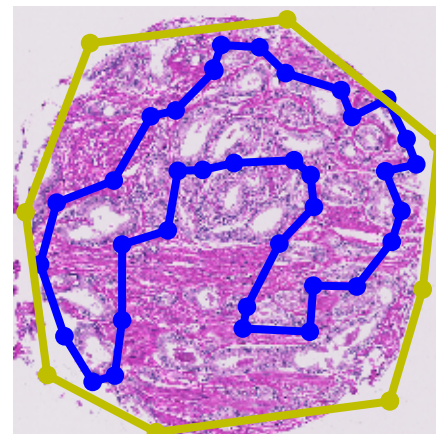
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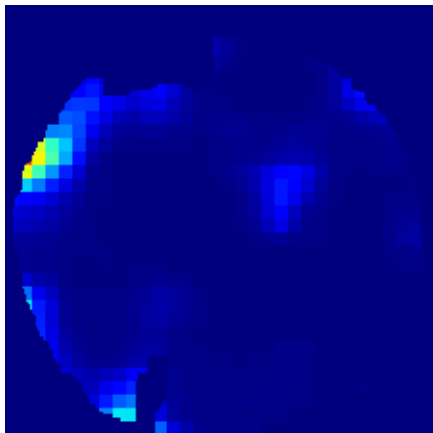
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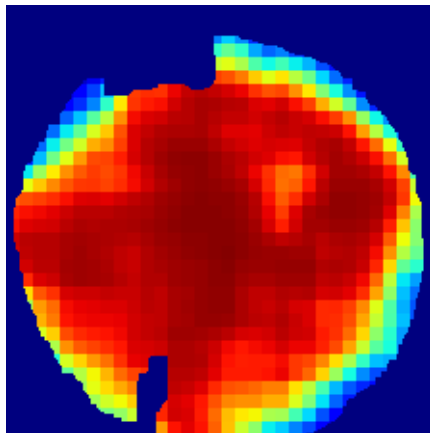
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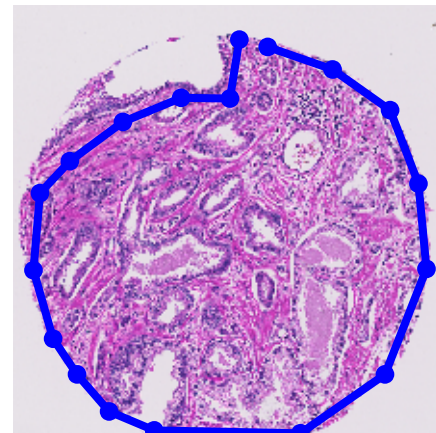
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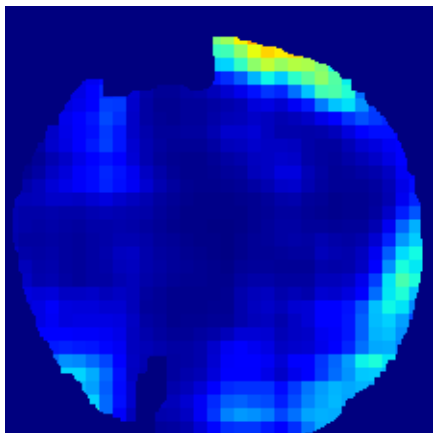
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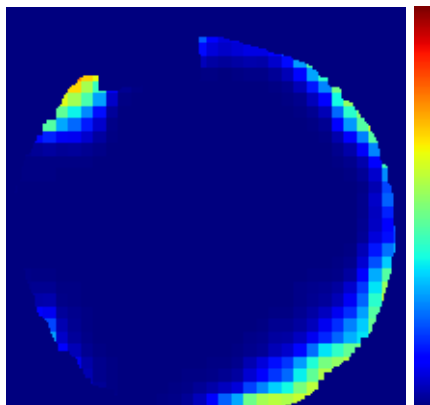
Pathologist 1



Gleason 4



Gleason 5



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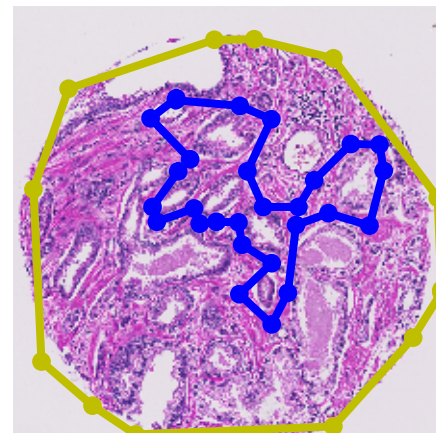
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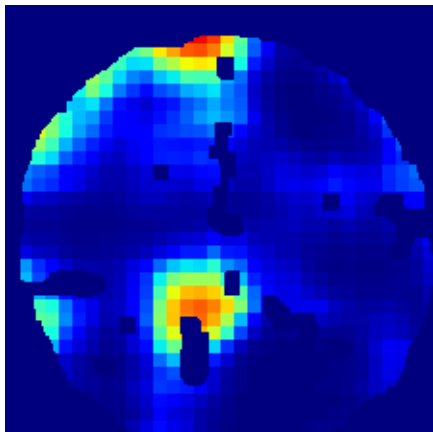
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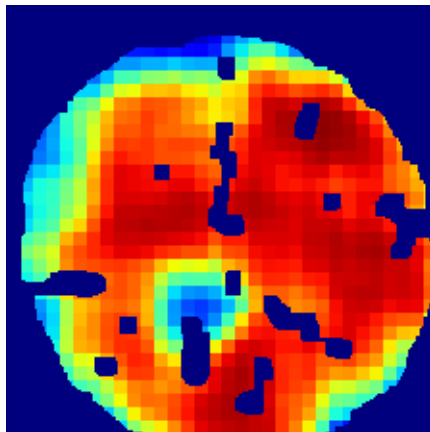
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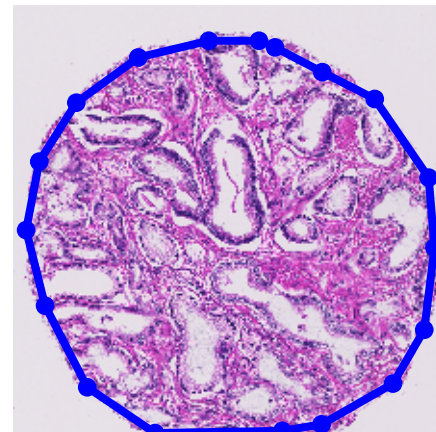
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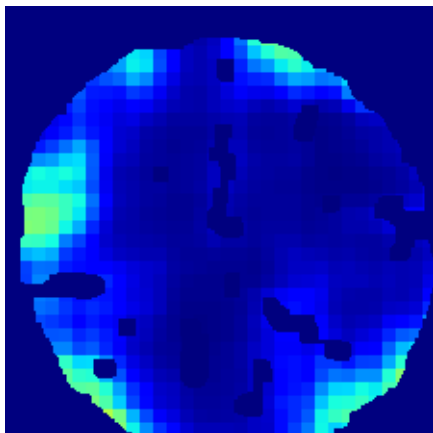
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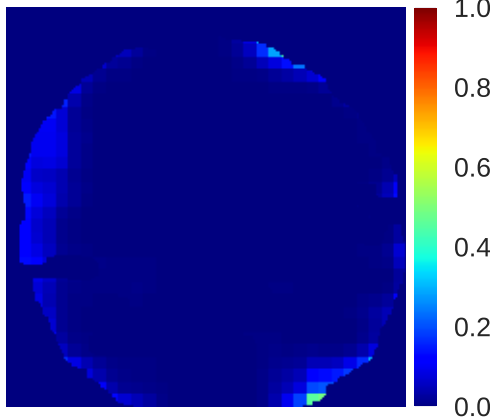
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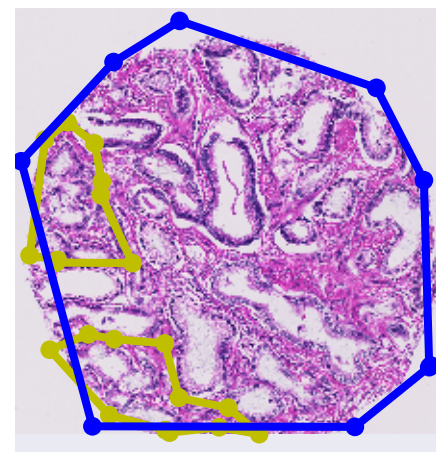
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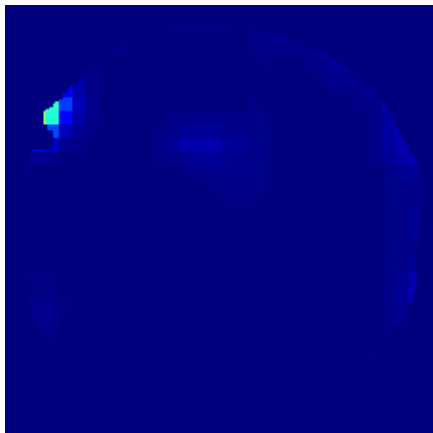
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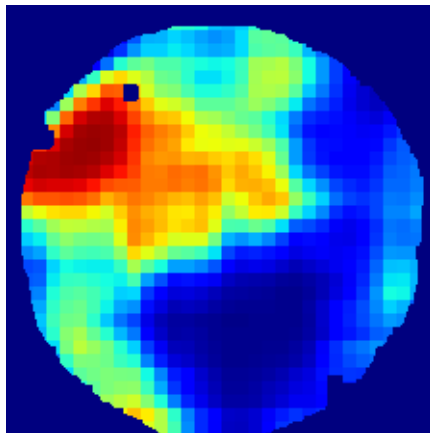
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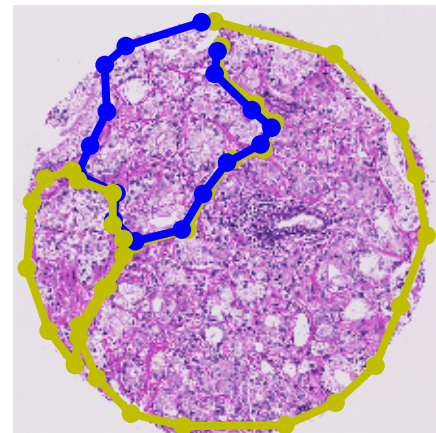
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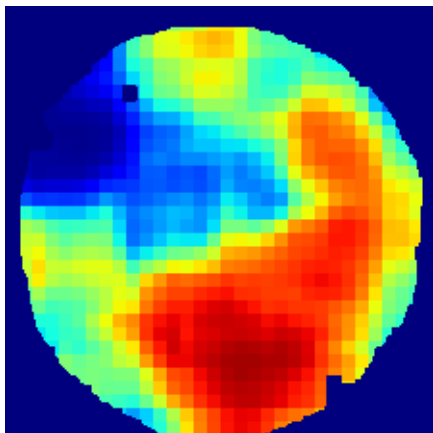
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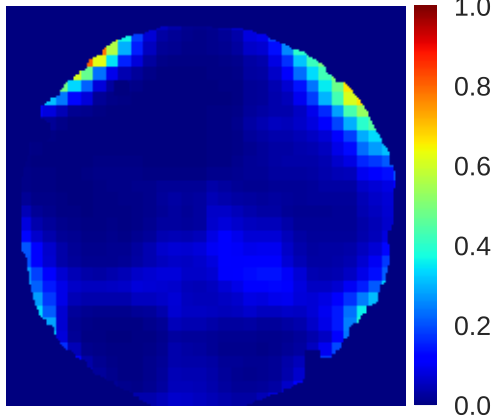
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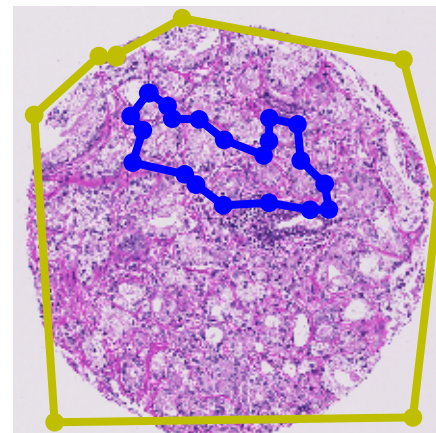
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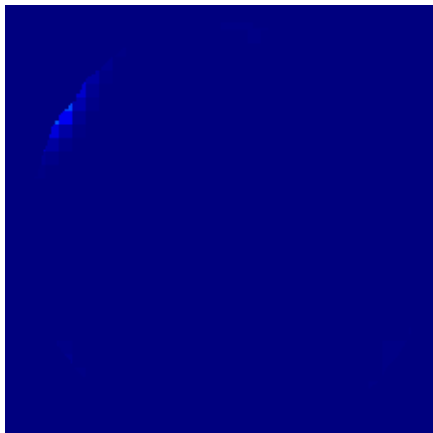
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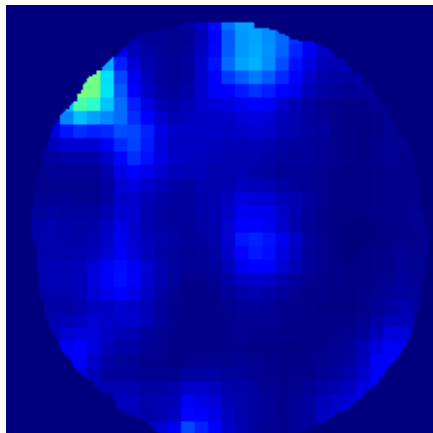
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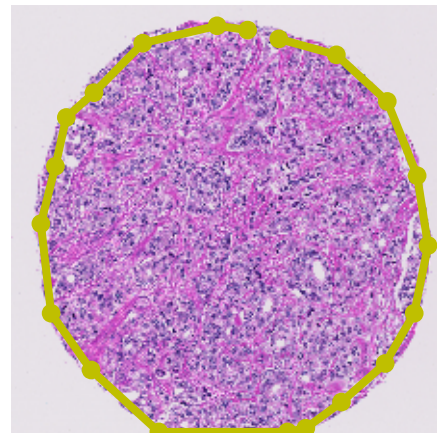
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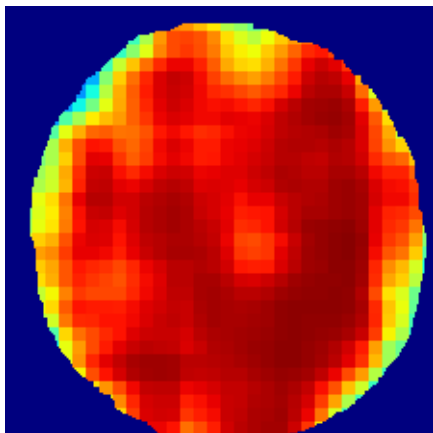
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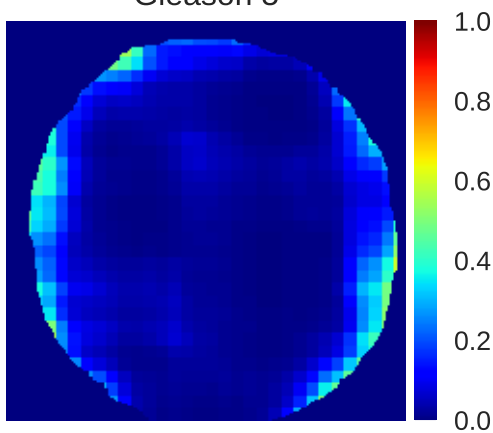
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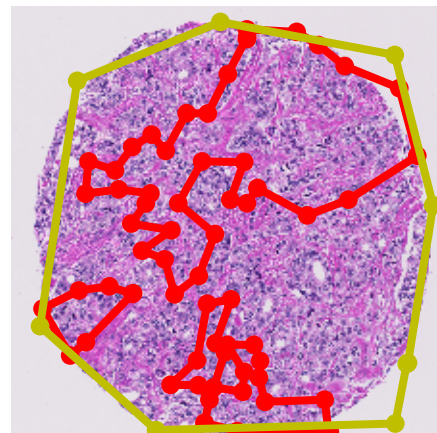
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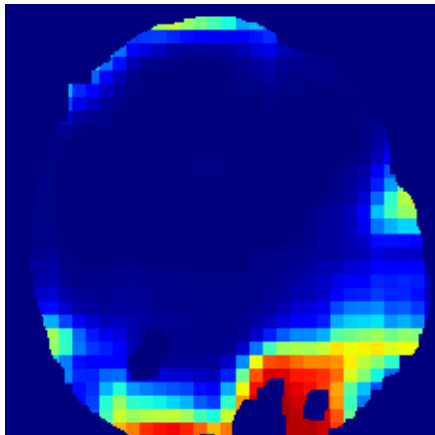
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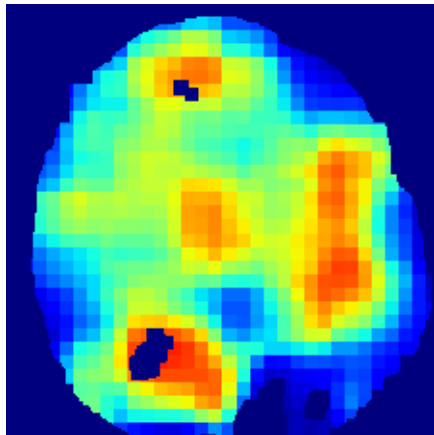
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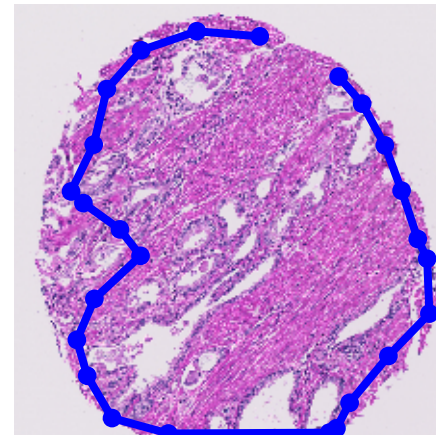
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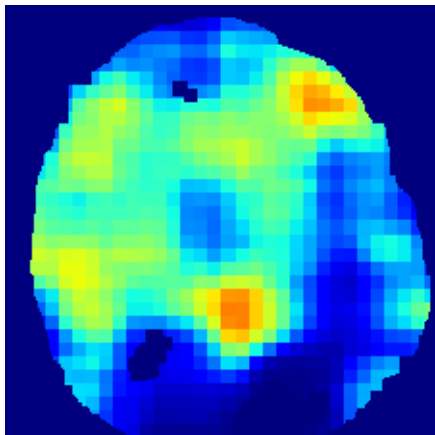
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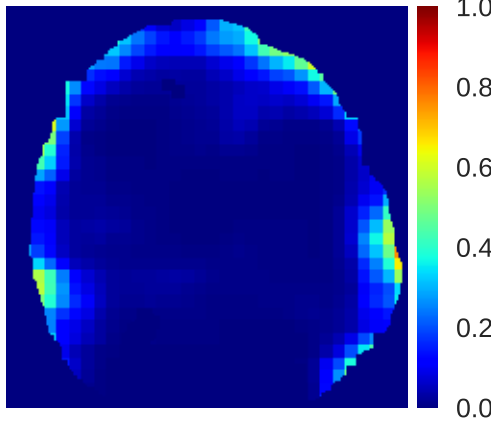
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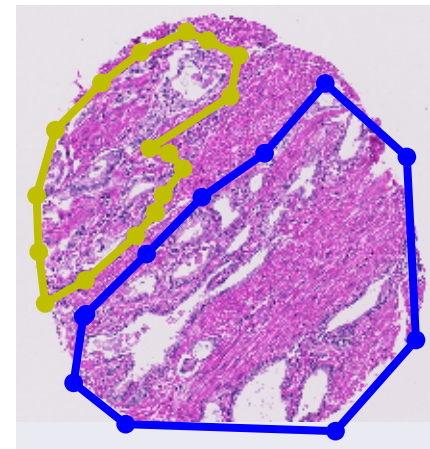
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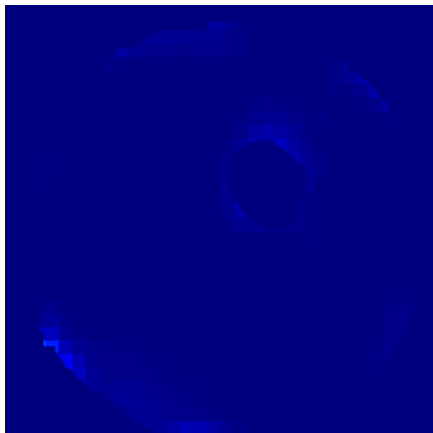
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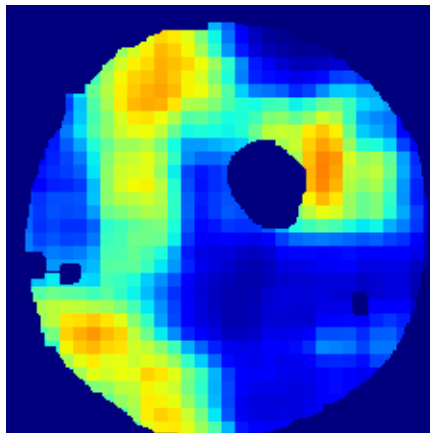
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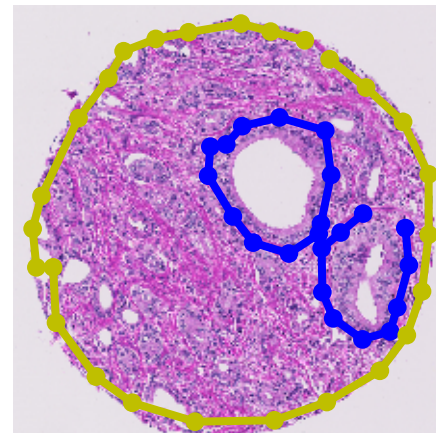
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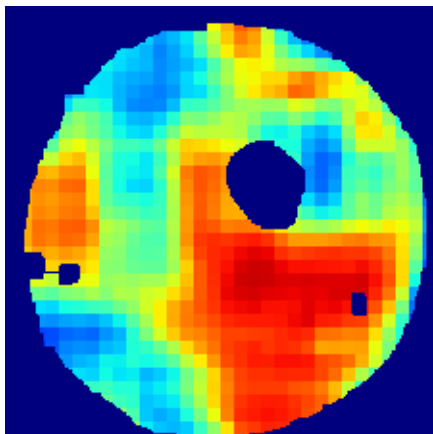
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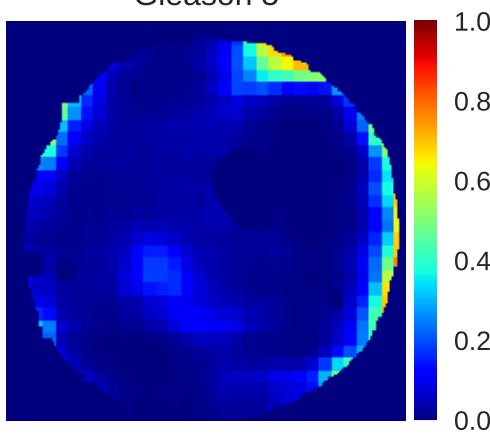
Pathologist 1



Gleason 4



Gleason 5



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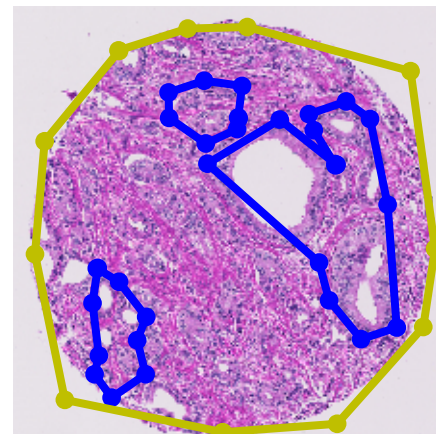
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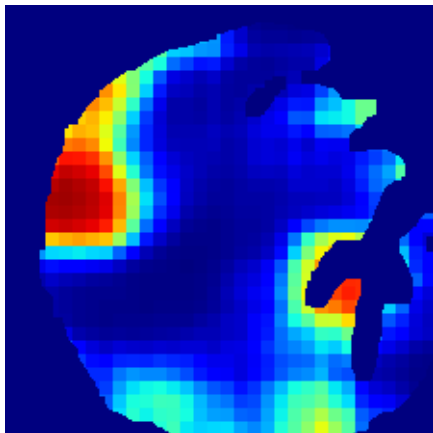
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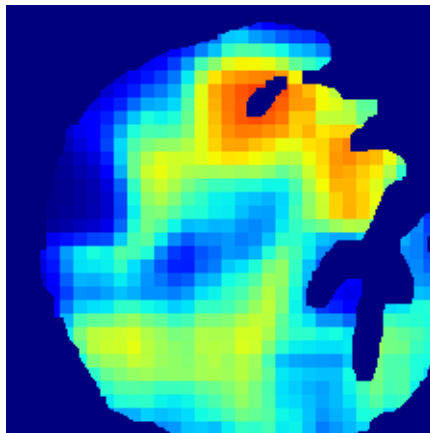
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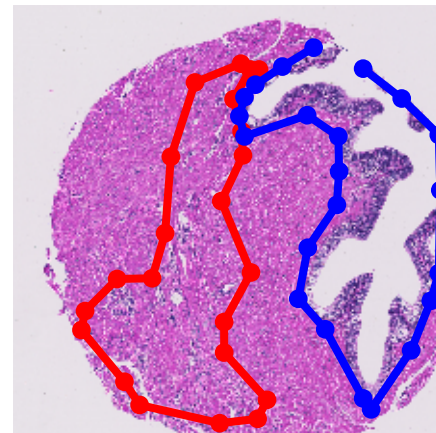
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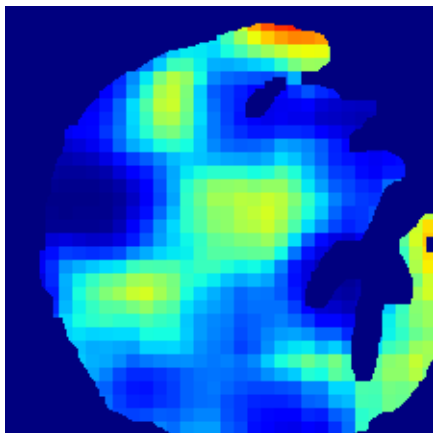
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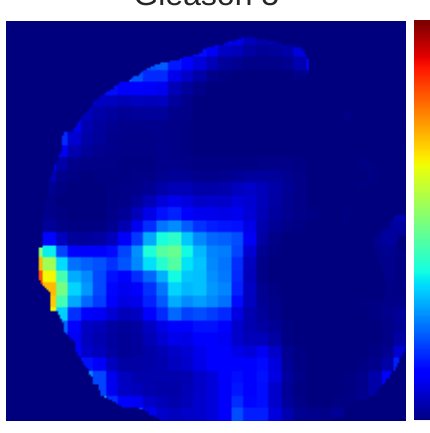
Pathologist 1



Gleason 4



Gleason 5



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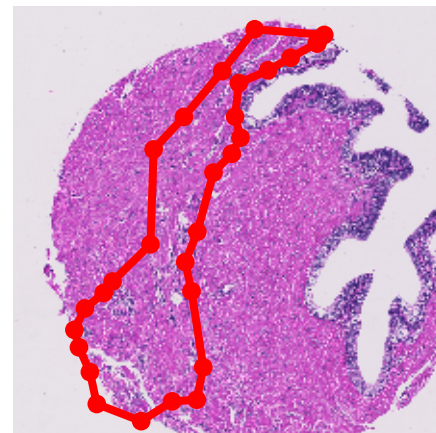
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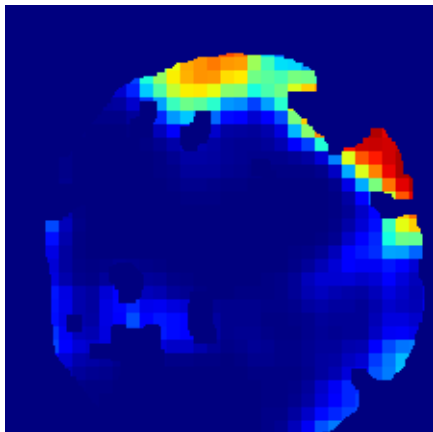
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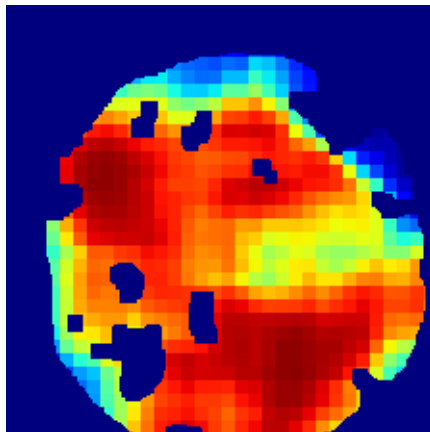
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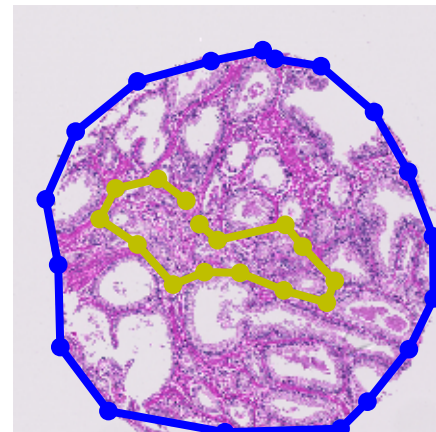
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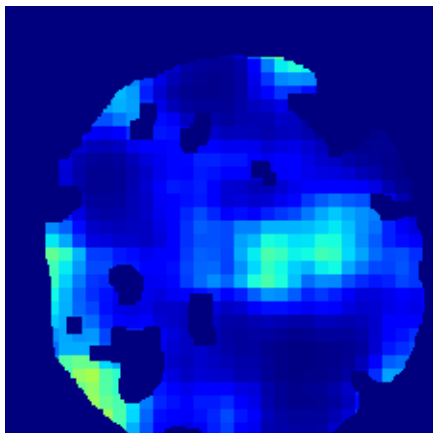
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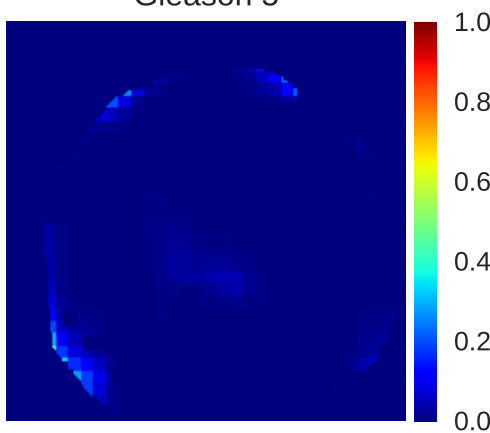
Pathologist 1



Gleason 4



Gleason 5



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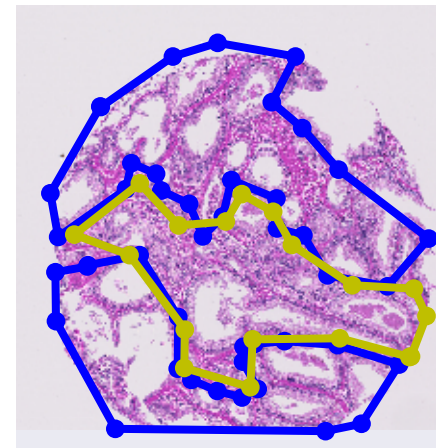
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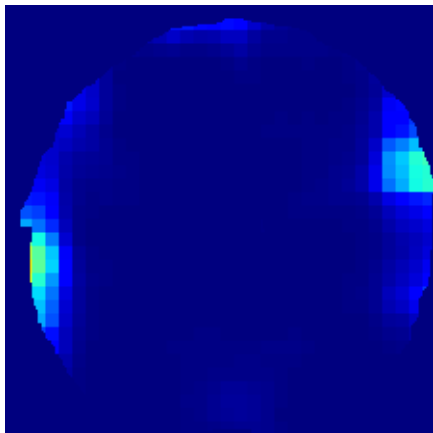
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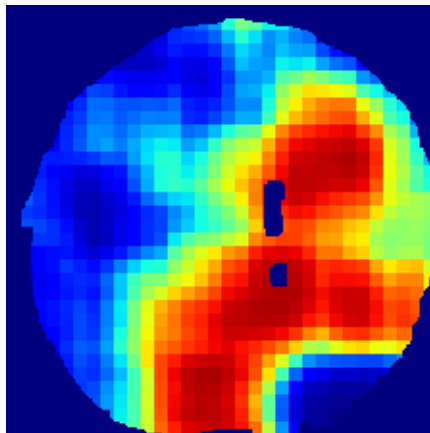
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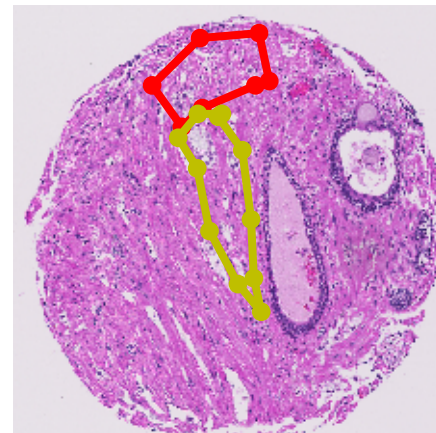
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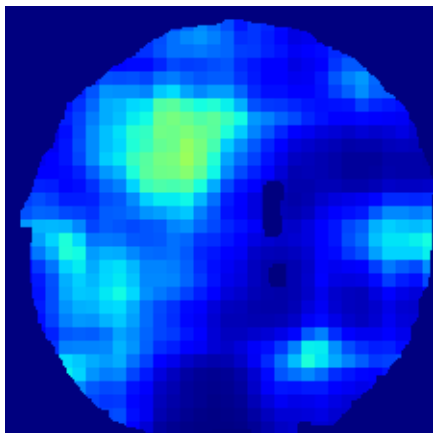
Gleason 3



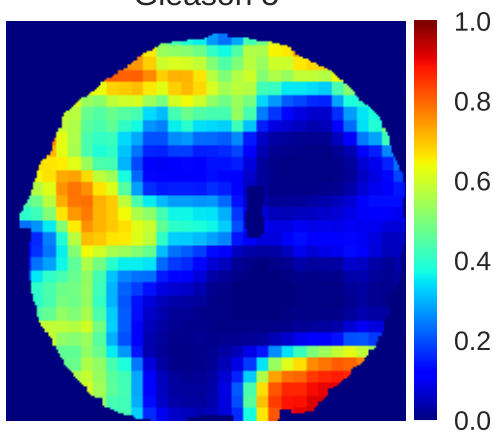
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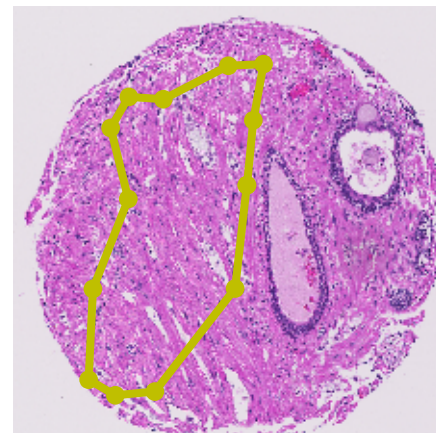
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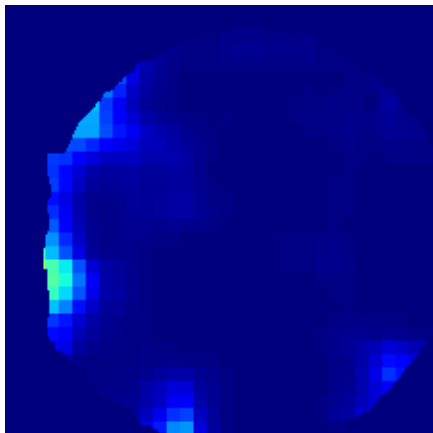
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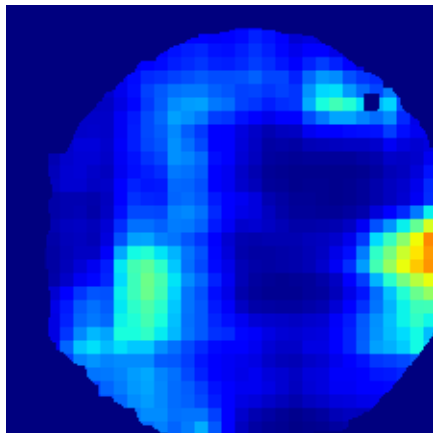
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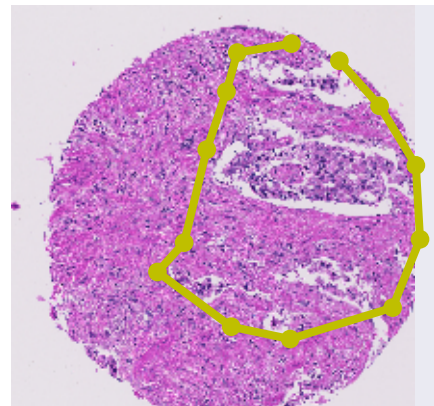
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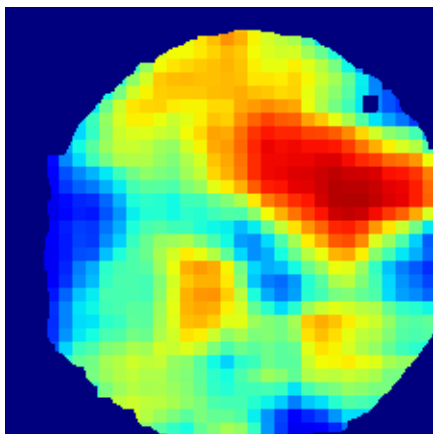
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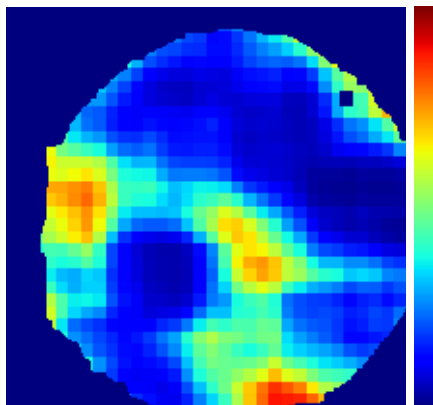
Pathologist 1



Gleason 4



Gleason 5



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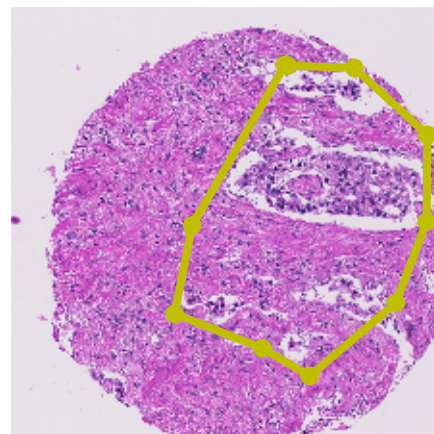
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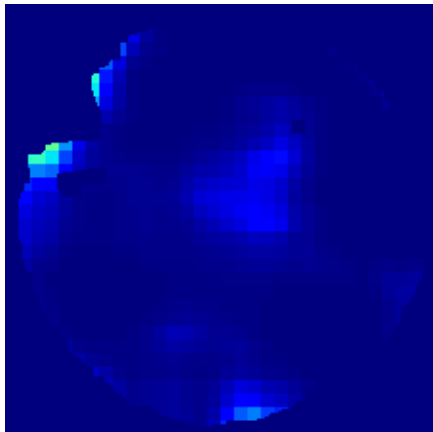
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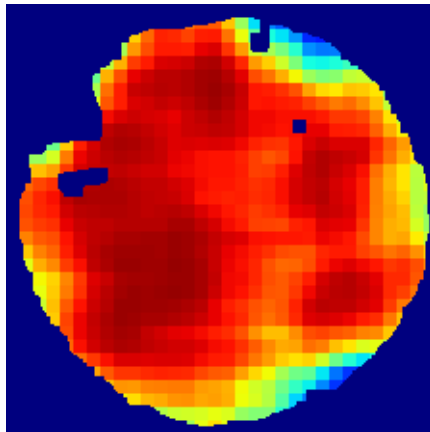
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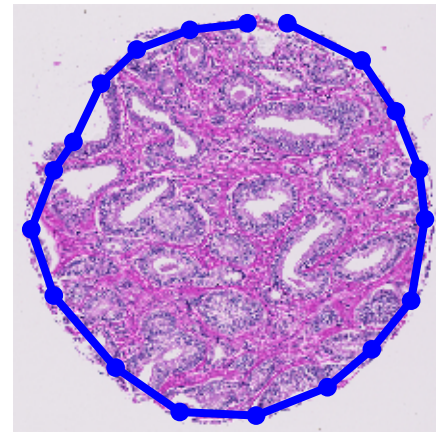
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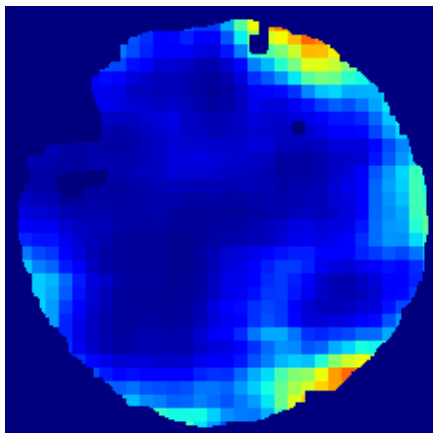
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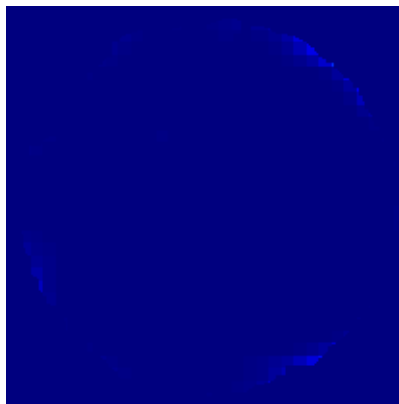
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Gleason 4



Gleason 5



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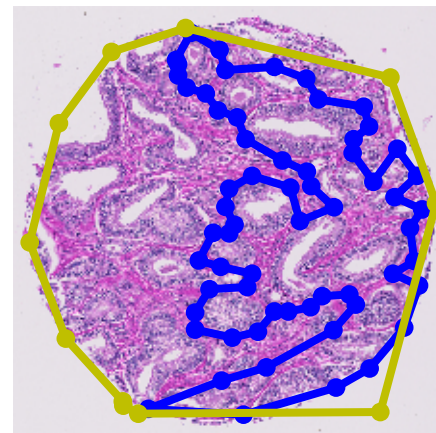
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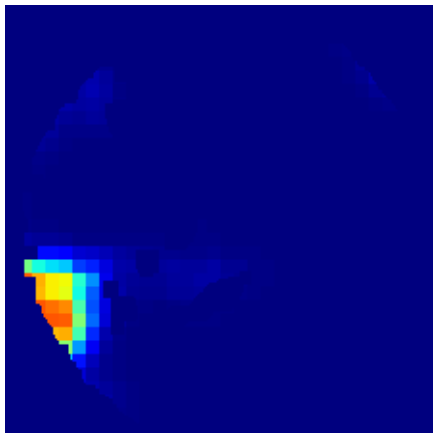
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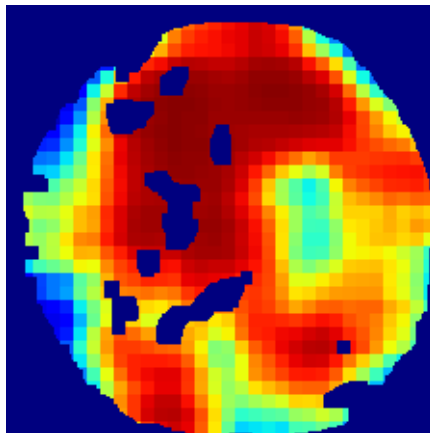
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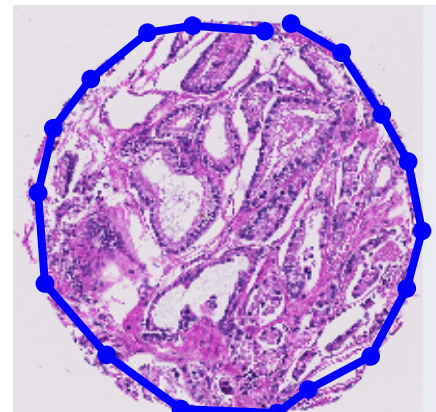
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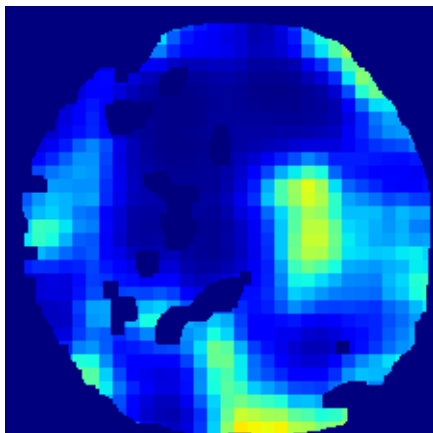
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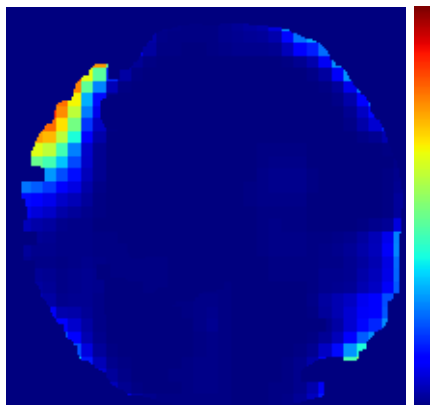
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Gleason 4



Gleason 5



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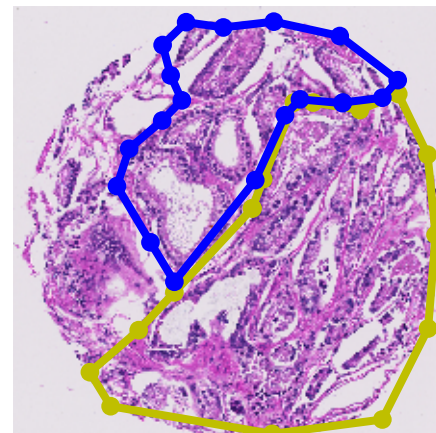
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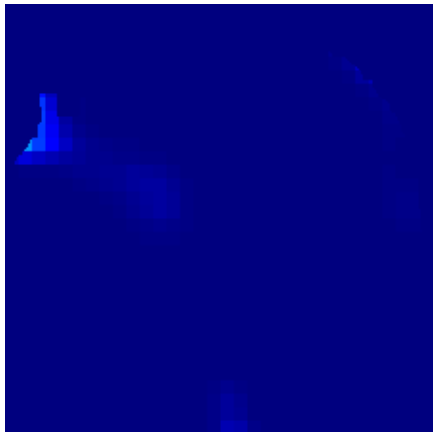
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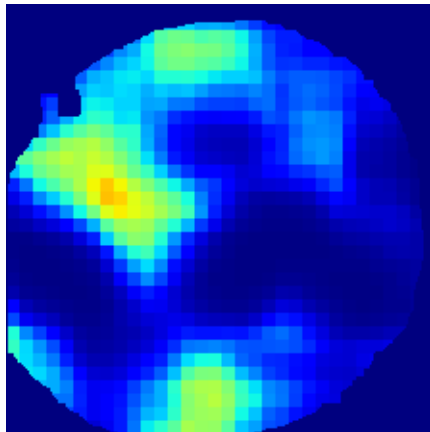
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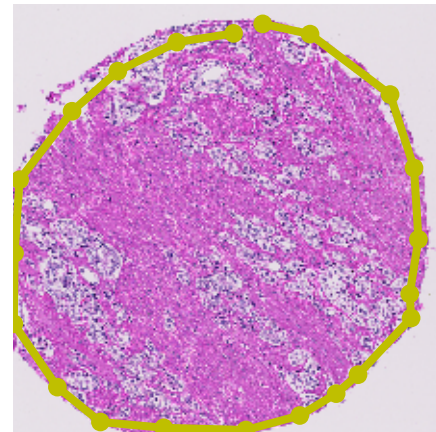
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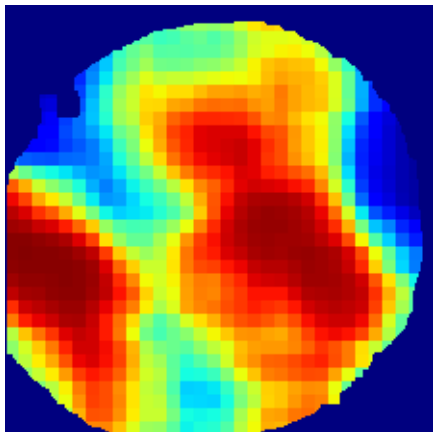
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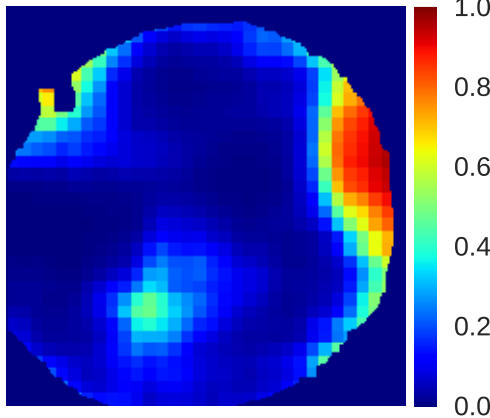
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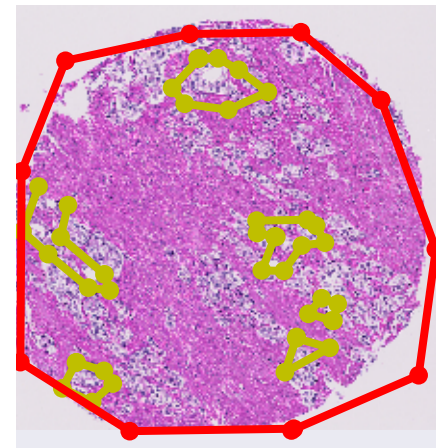
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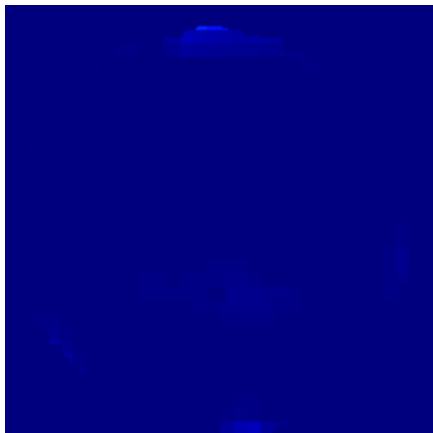
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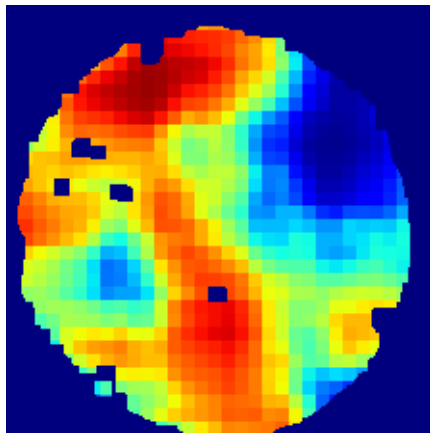
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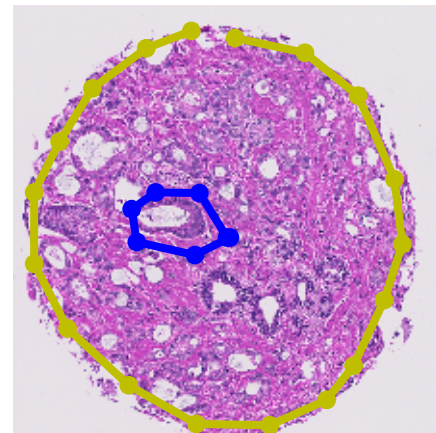
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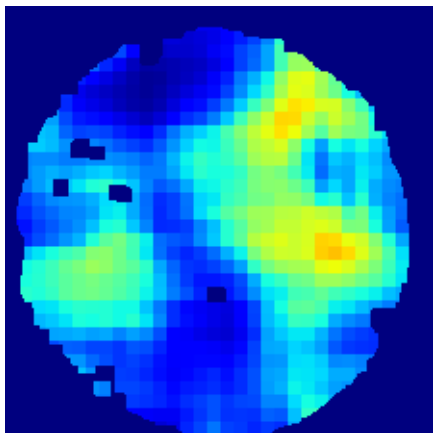
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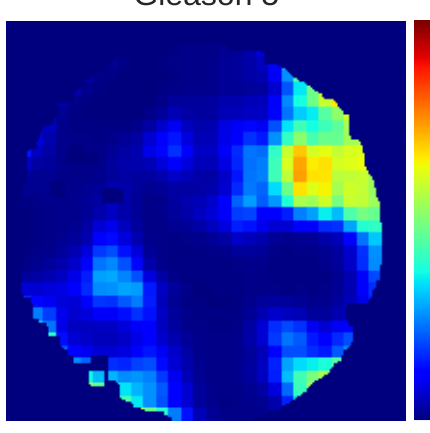
Pathologist 1



Gleason 4



Gleason 5



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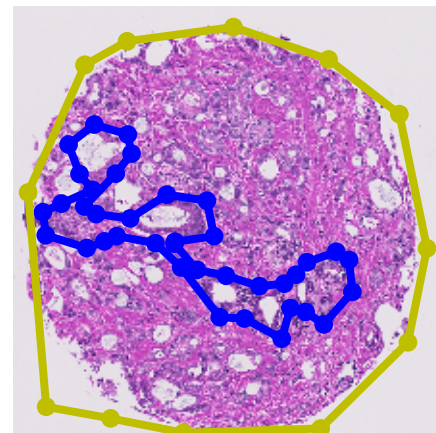
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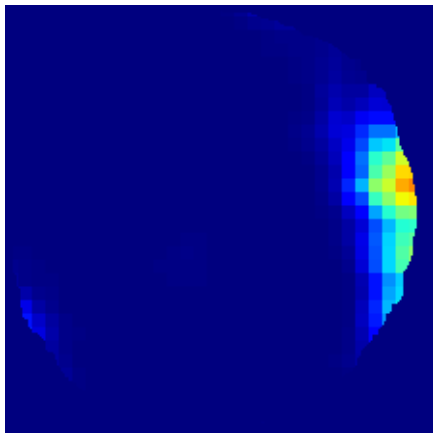
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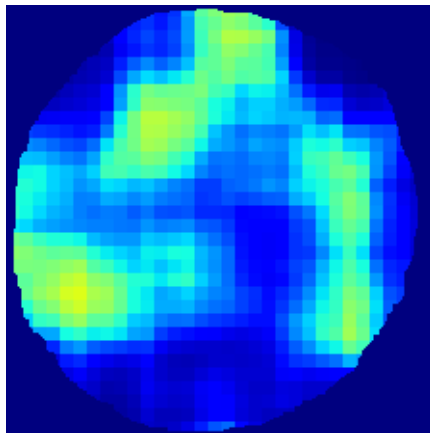
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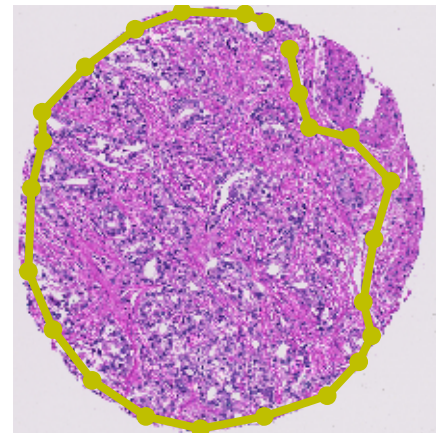
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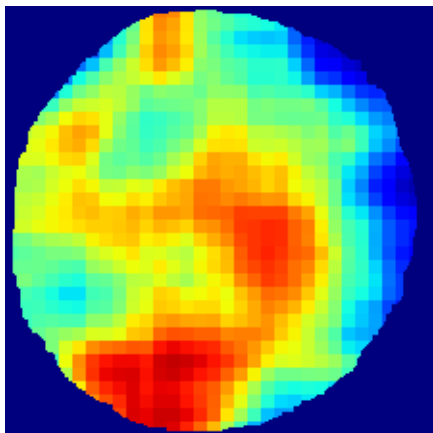
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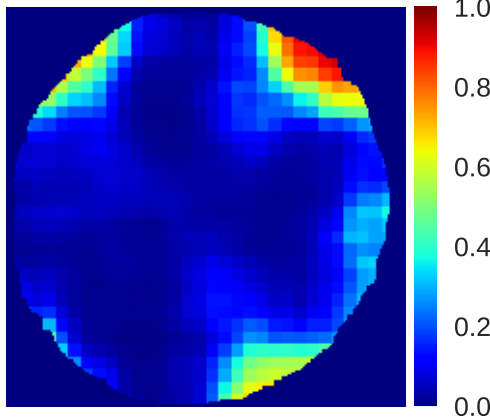
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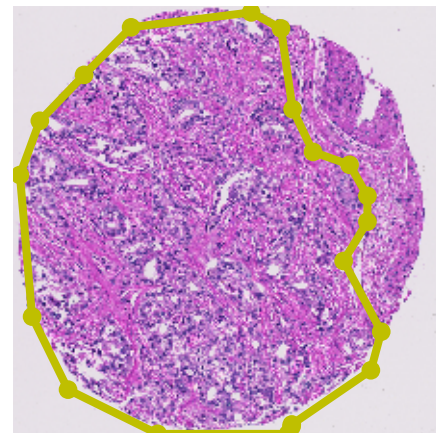
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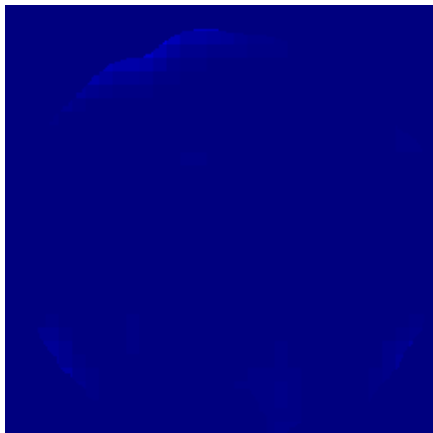
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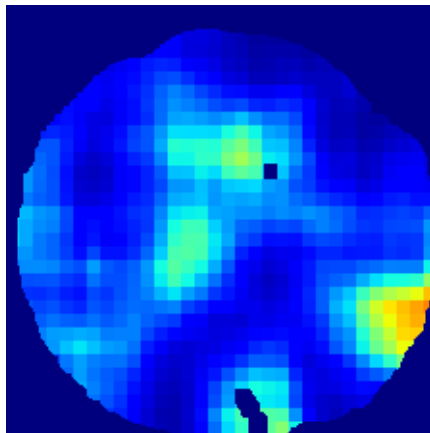
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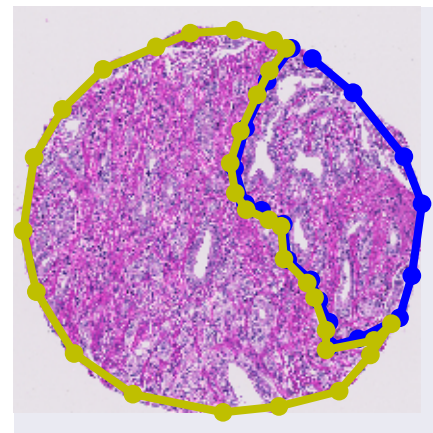
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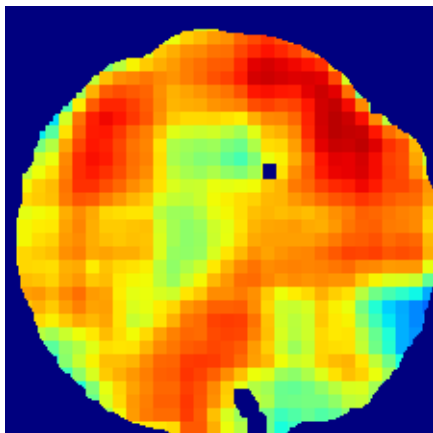
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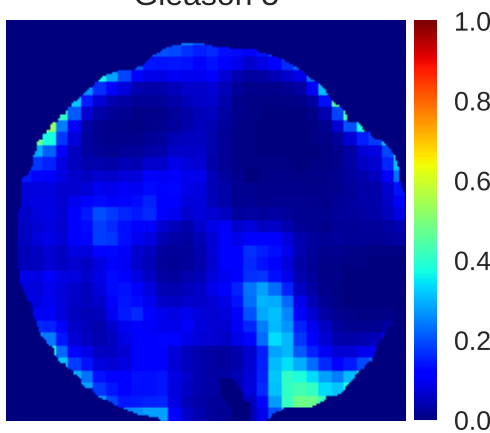
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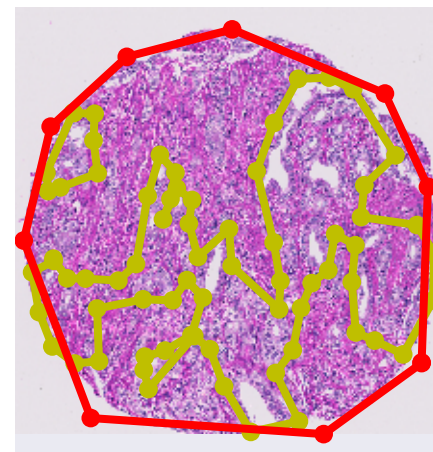
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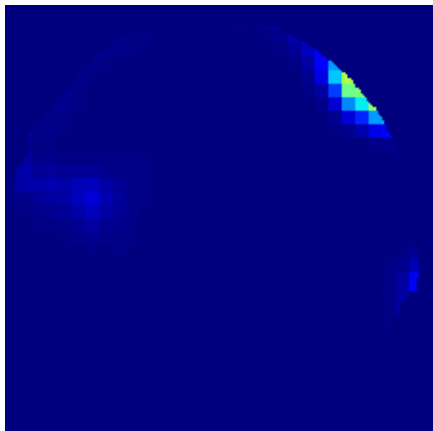
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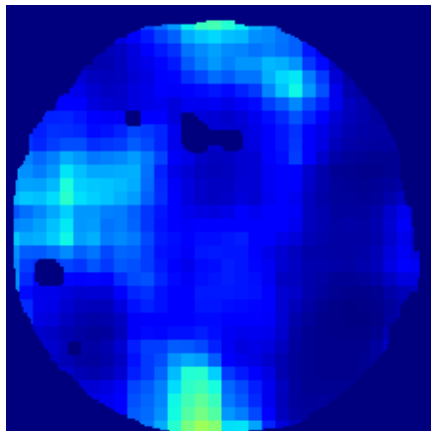
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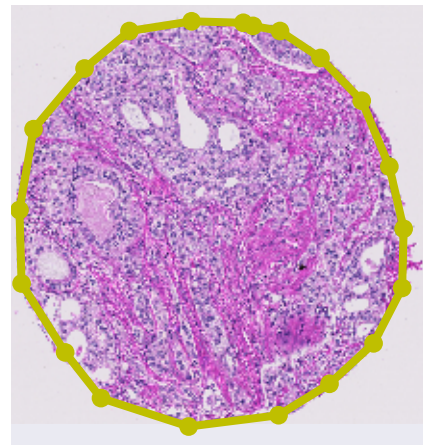
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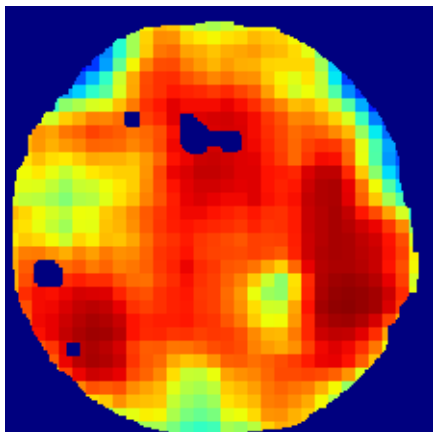
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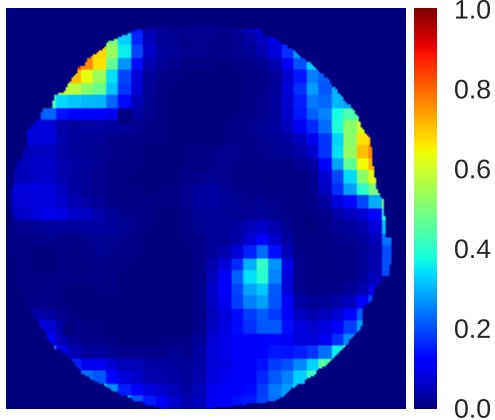
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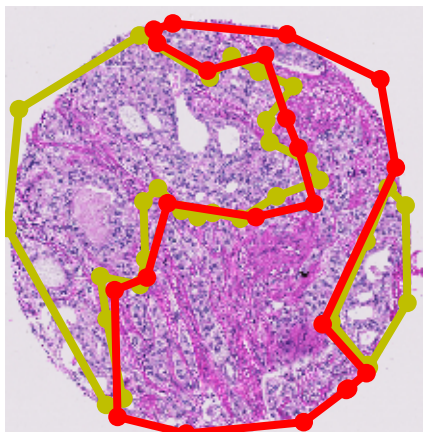
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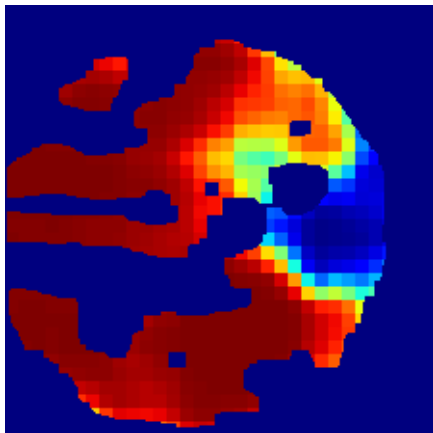
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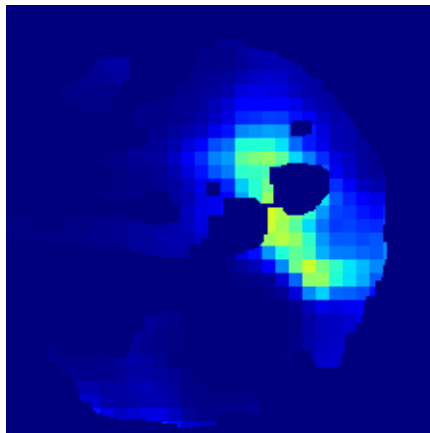
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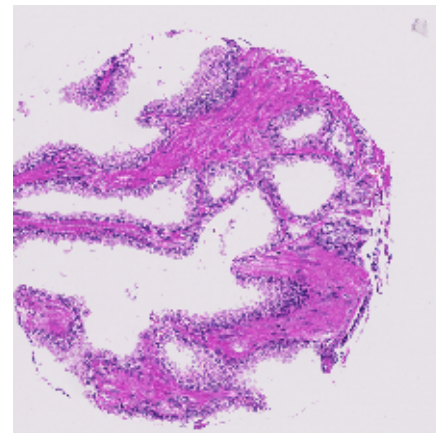
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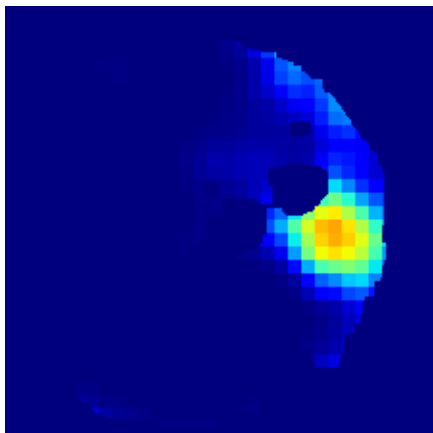
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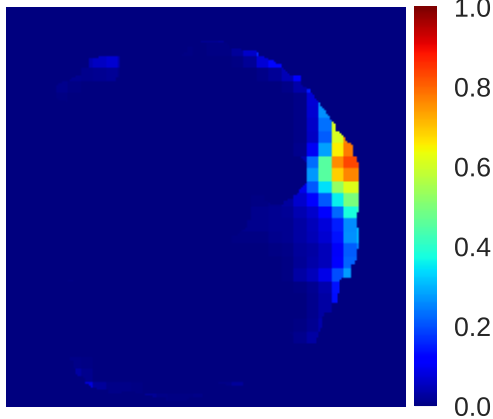
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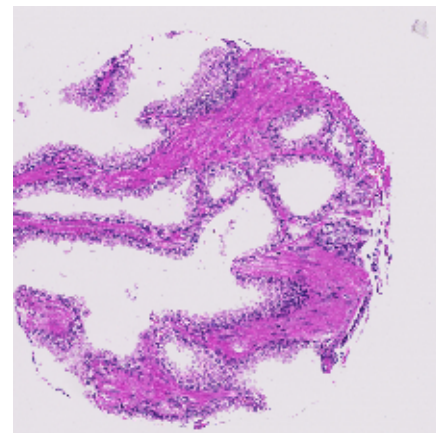
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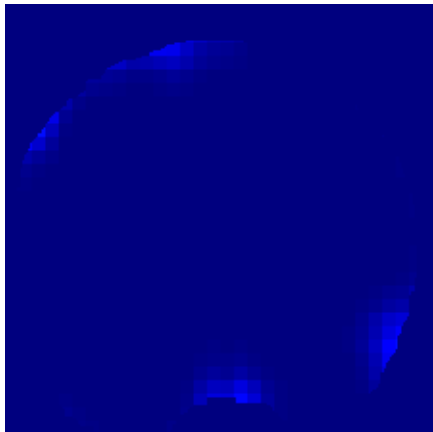
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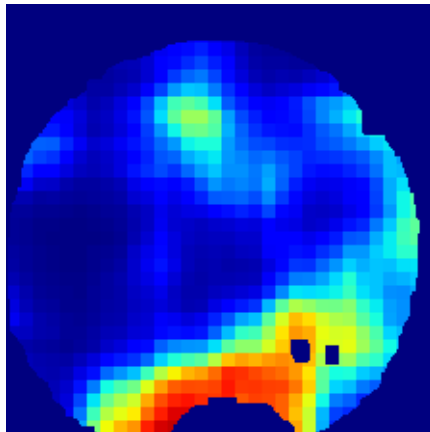
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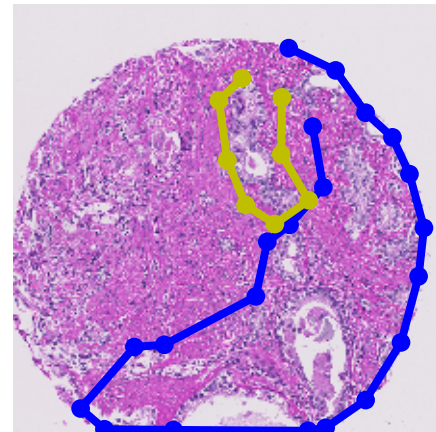
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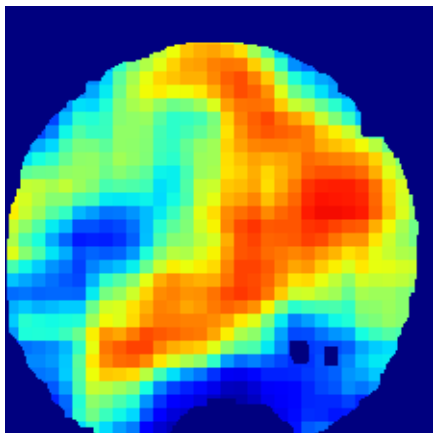
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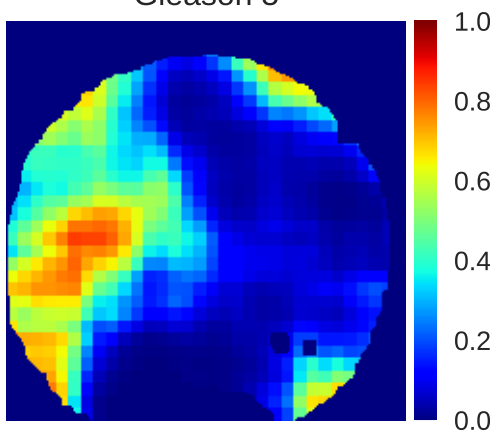
Pathologist 1



Gleason 4



Gleason 5



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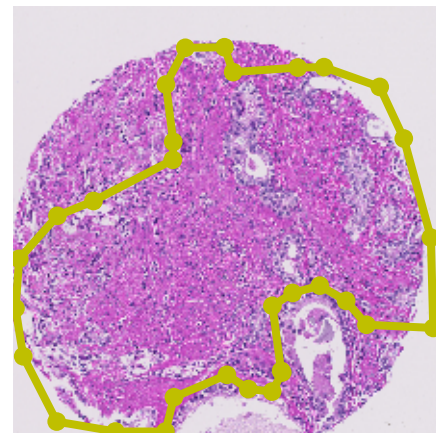
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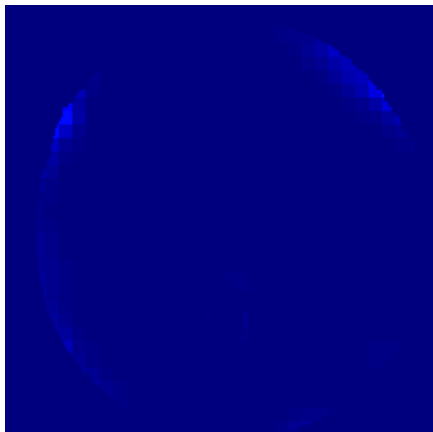
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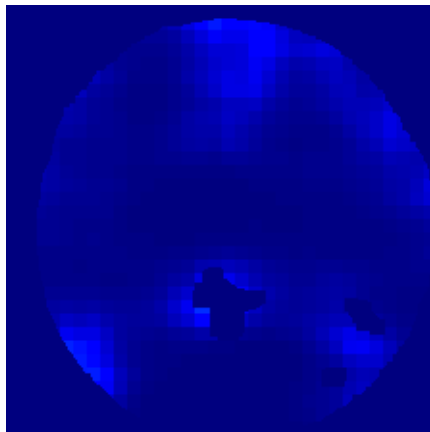
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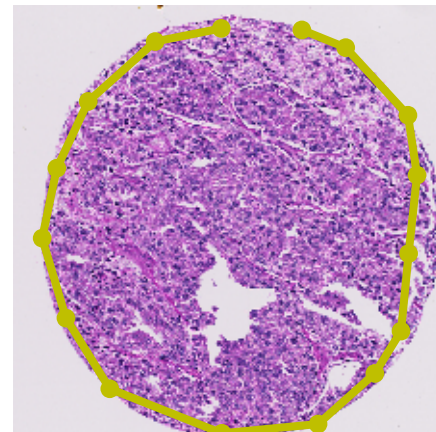
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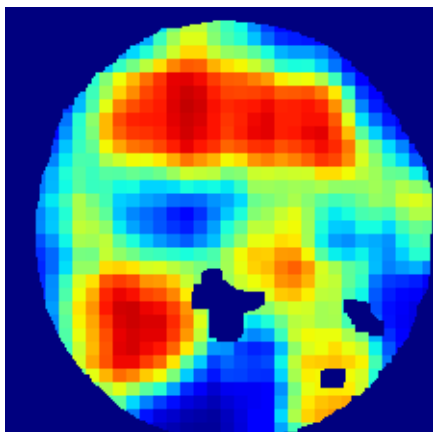
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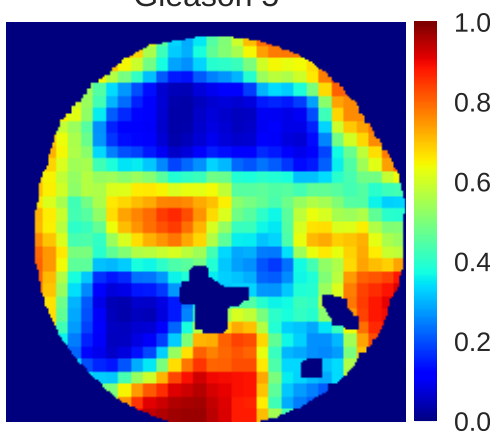
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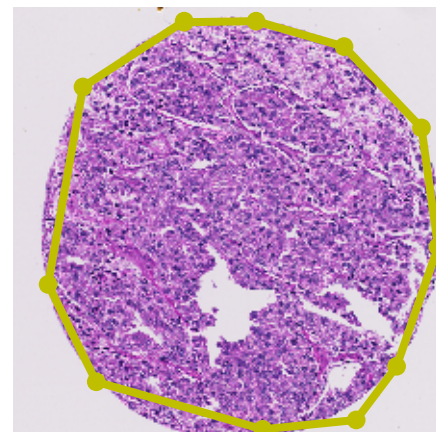
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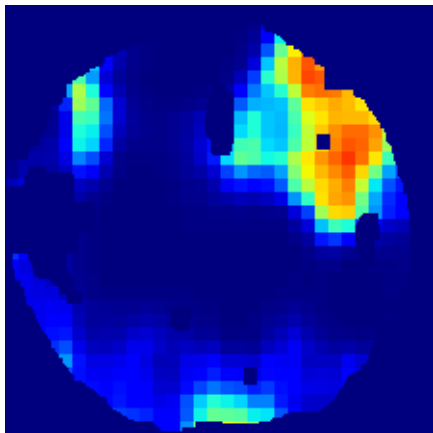
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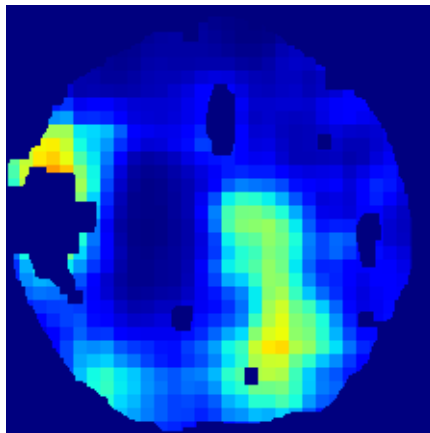
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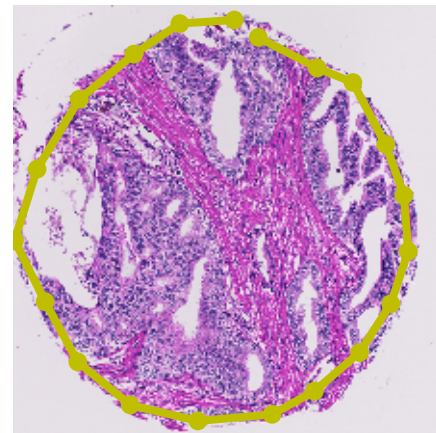
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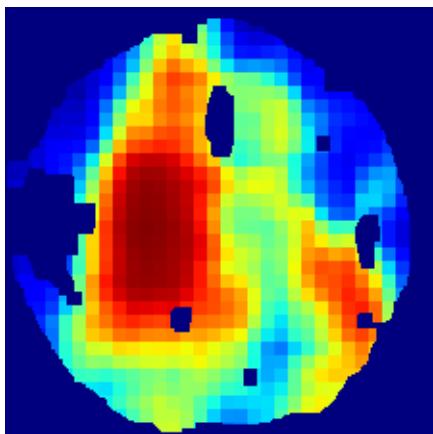
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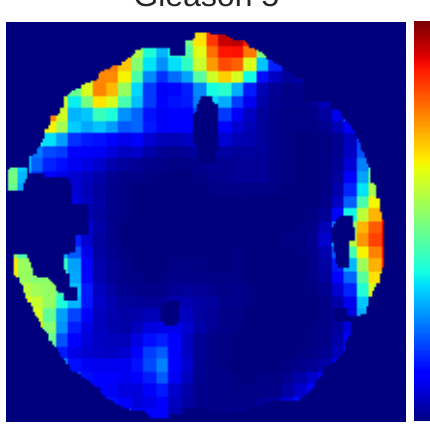
Pathologist 1



Gleason 4



Gleason 5



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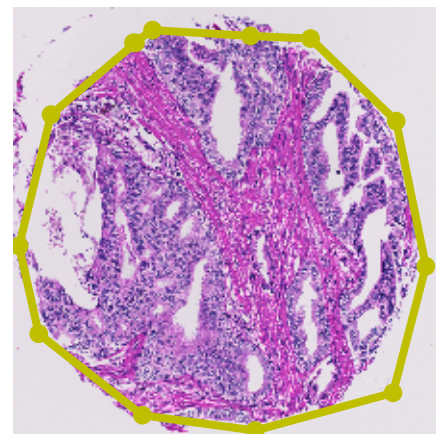
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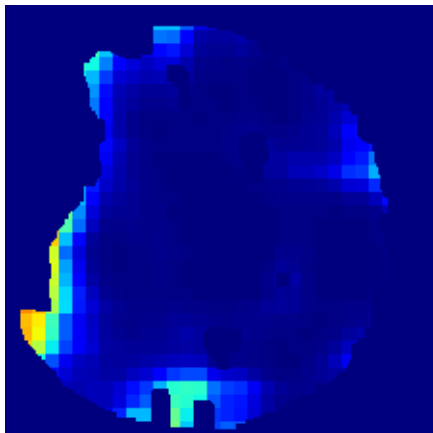
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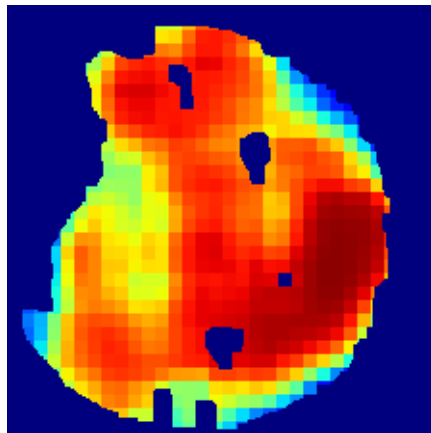
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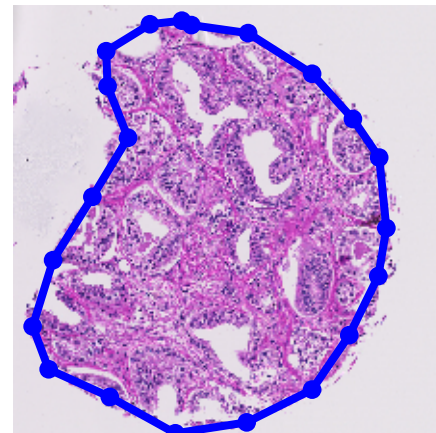
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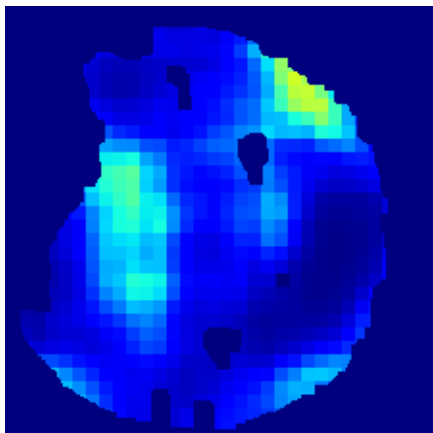
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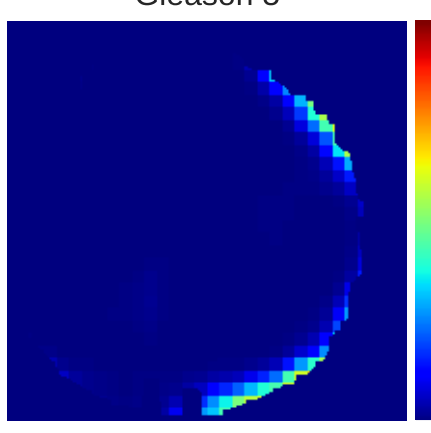
Pathologist 1



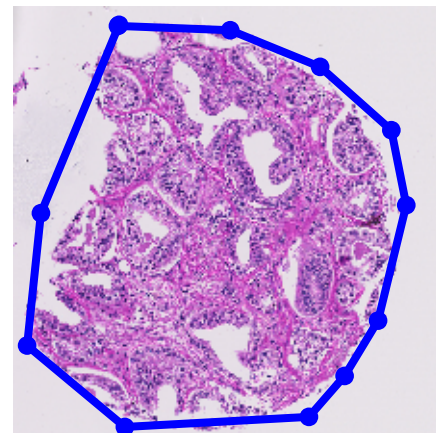
Gleason 4



Gleason 5



Pathologist 2



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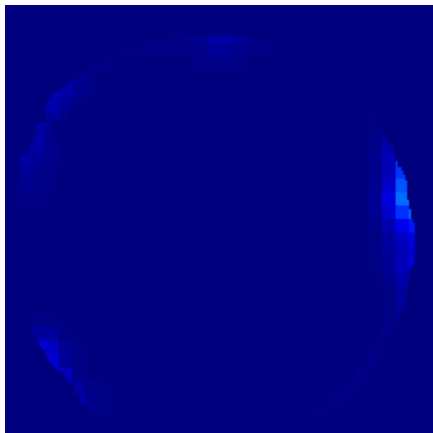
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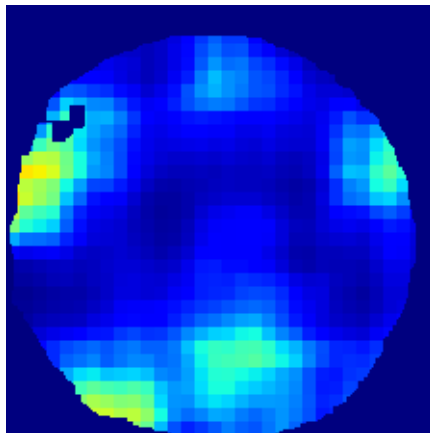
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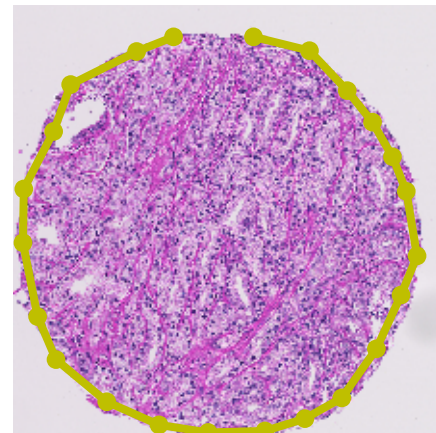
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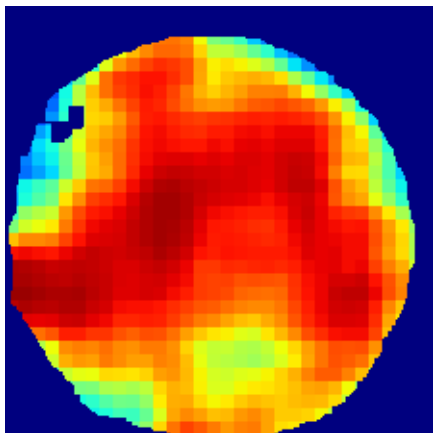
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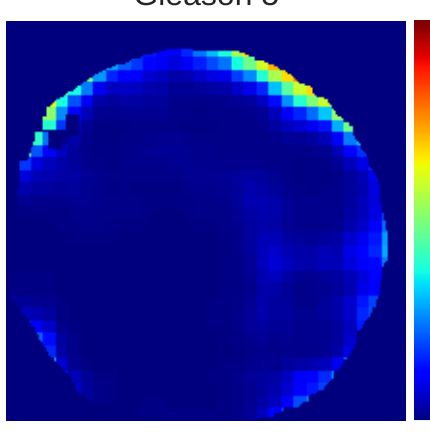
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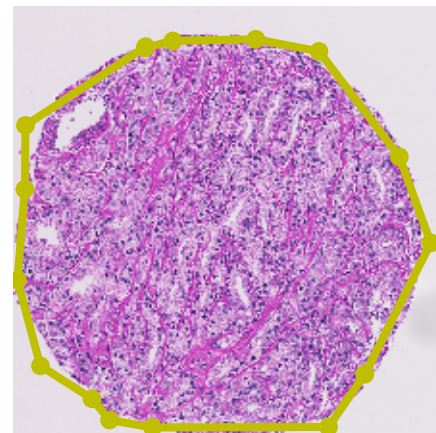
Gleason 4



Gleason 5



Pathologist 2



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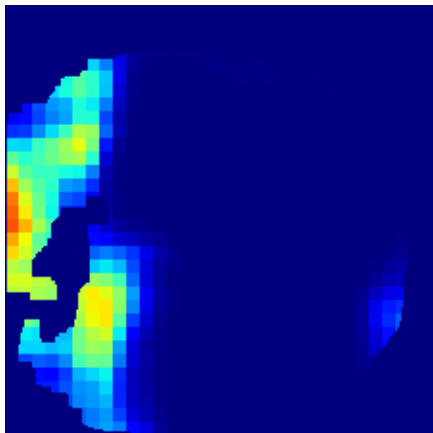
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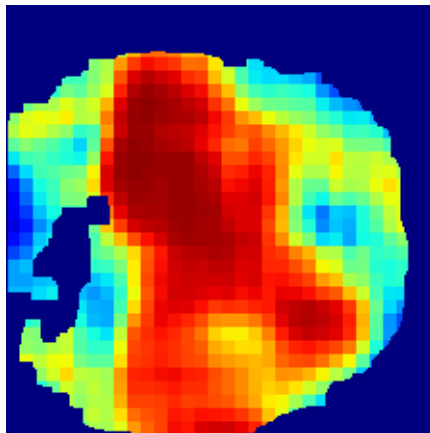
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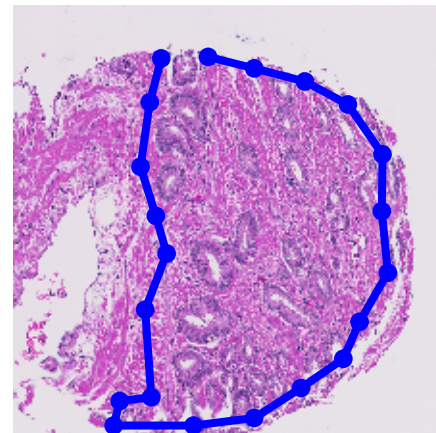
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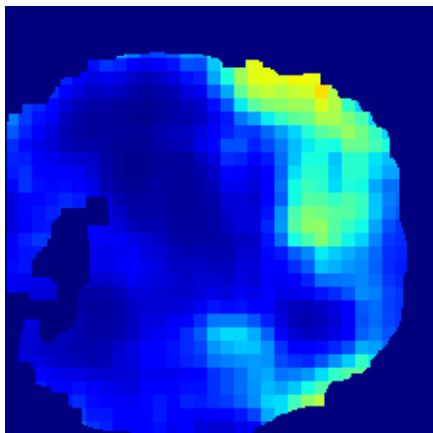
Gleason 3



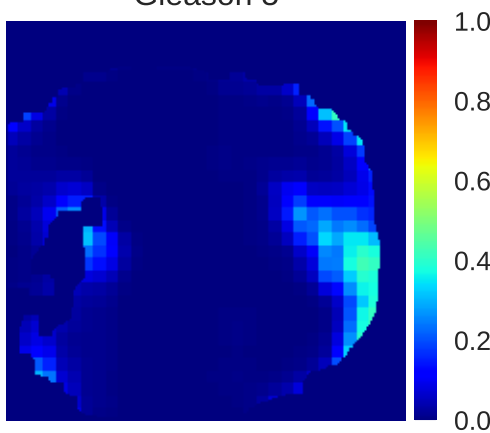
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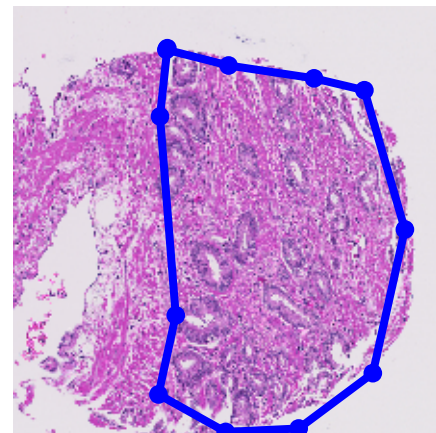
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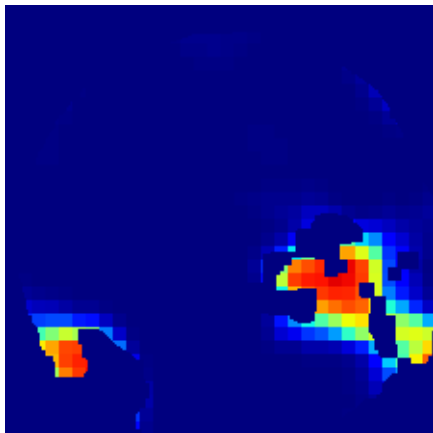
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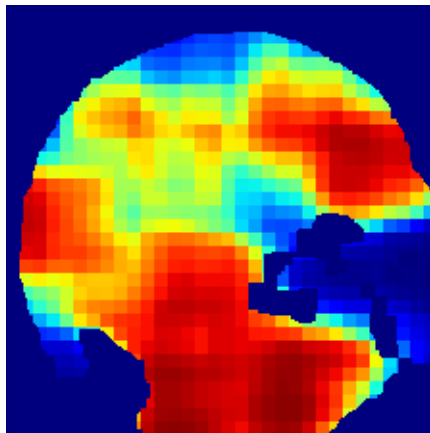
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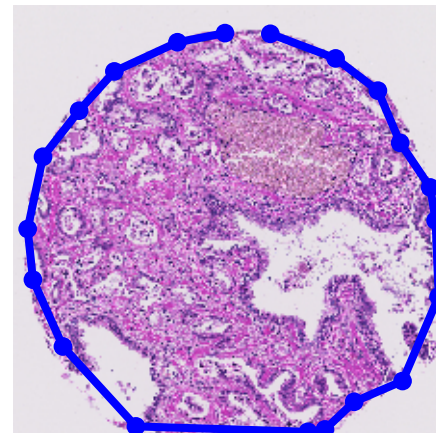
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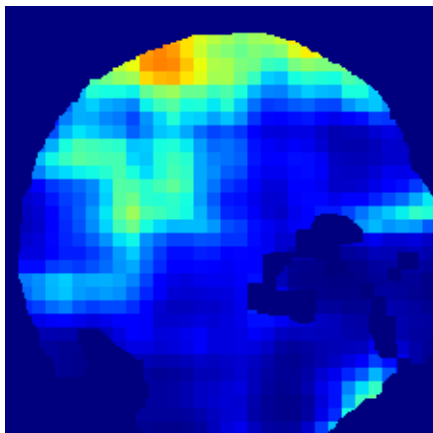
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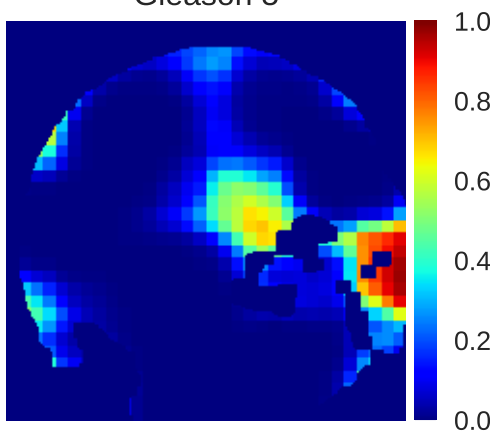
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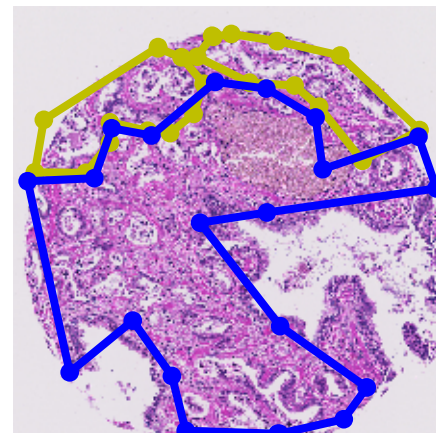
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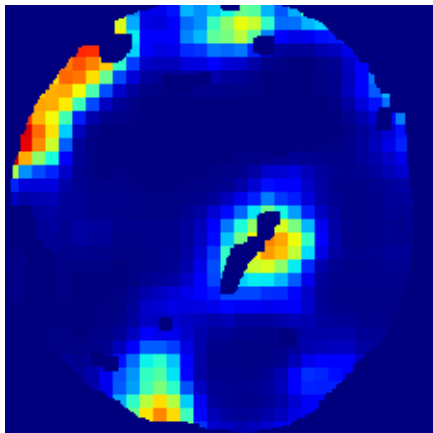
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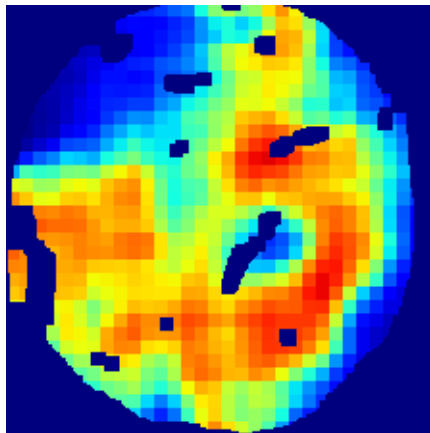
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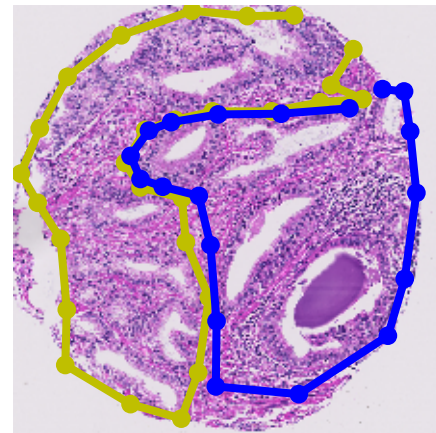
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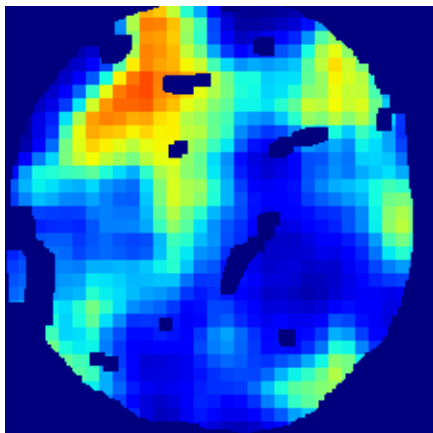
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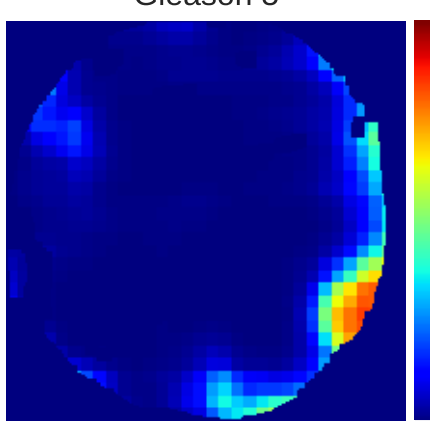
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Gleason 4



Gleason 5



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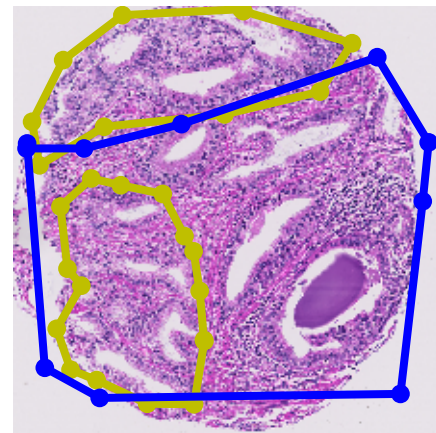
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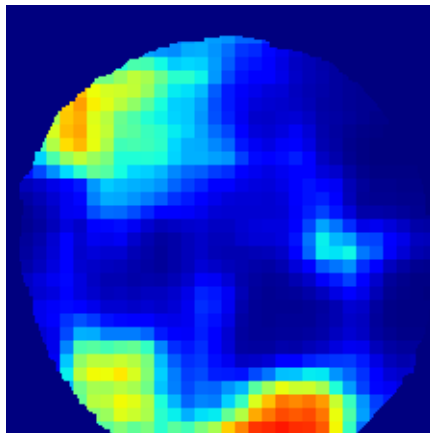
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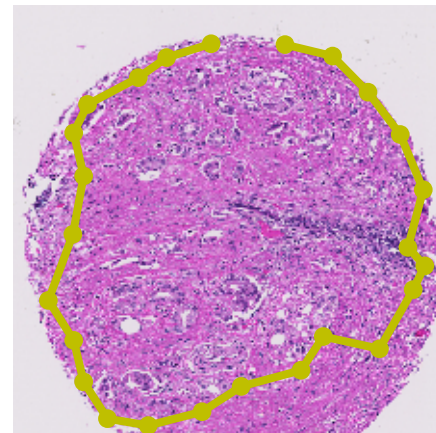
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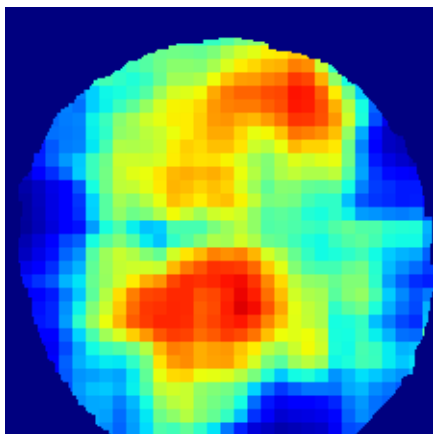
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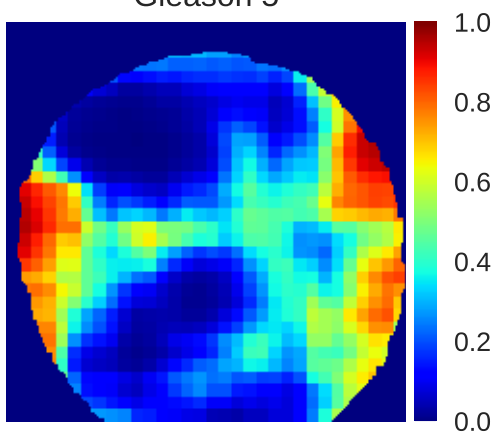
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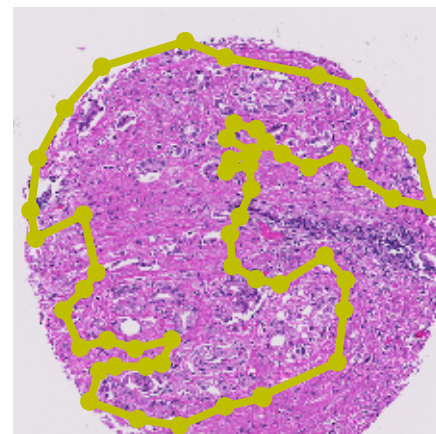
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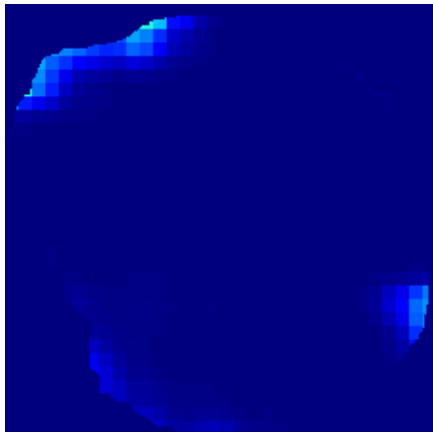
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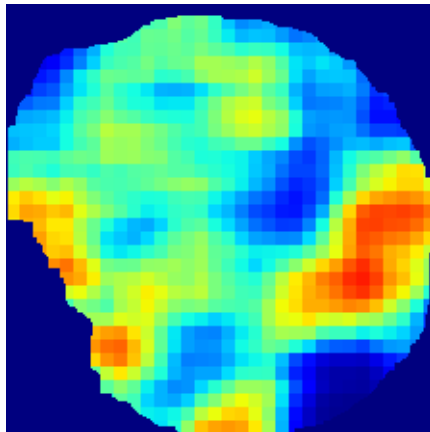
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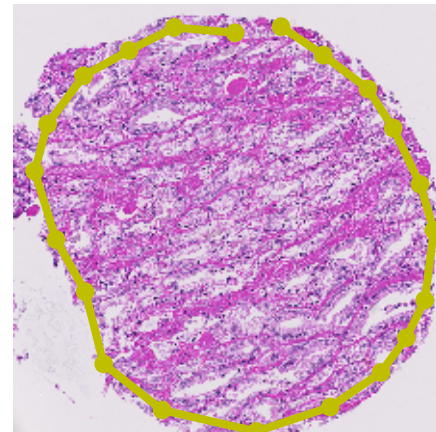
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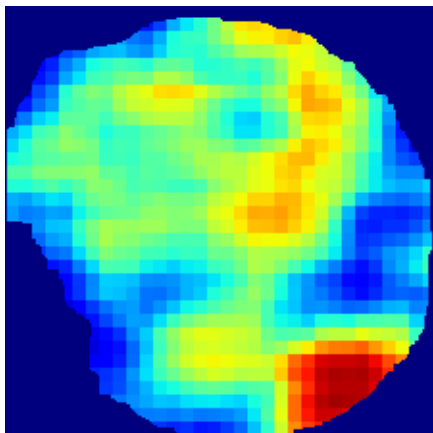
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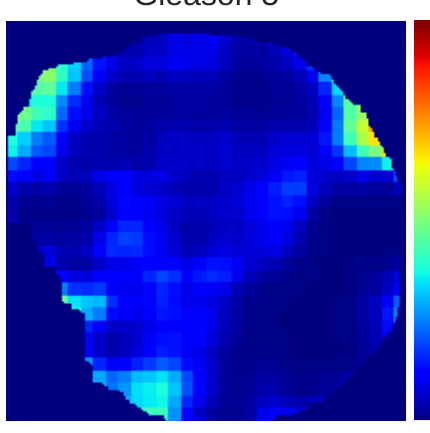
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Gleason 4



Gleason 5



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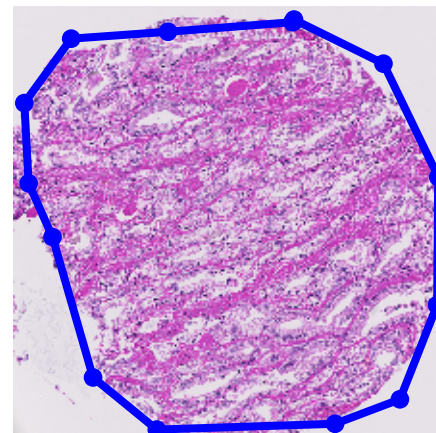
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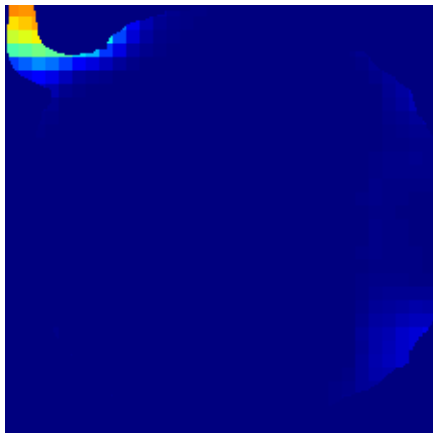
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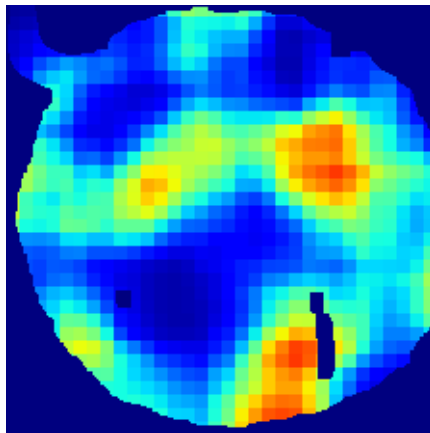
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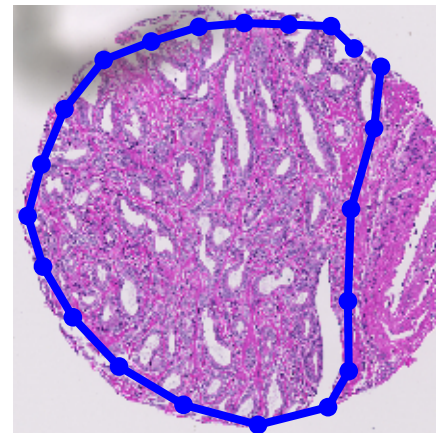
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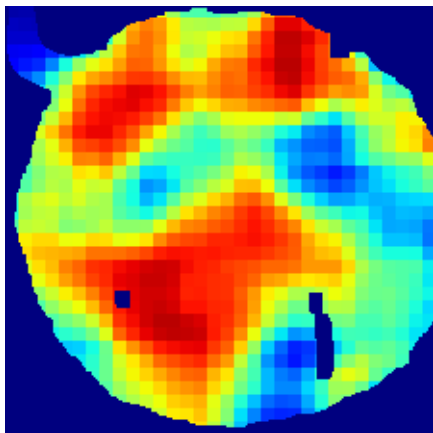
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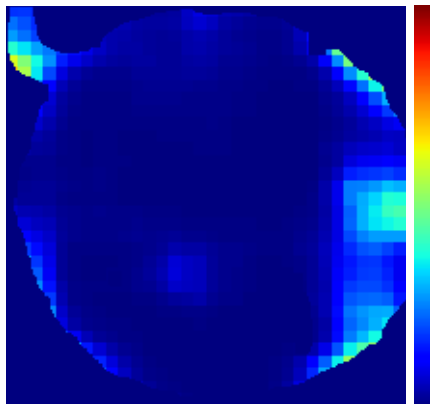
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Gleason 4



Gleason 5



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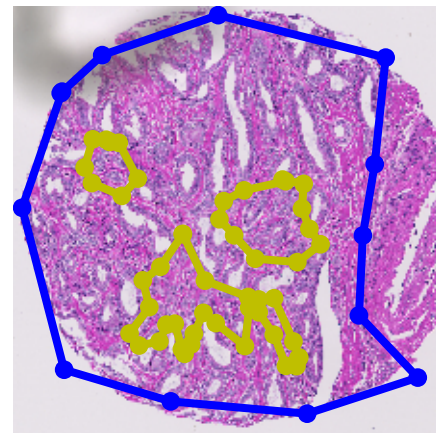
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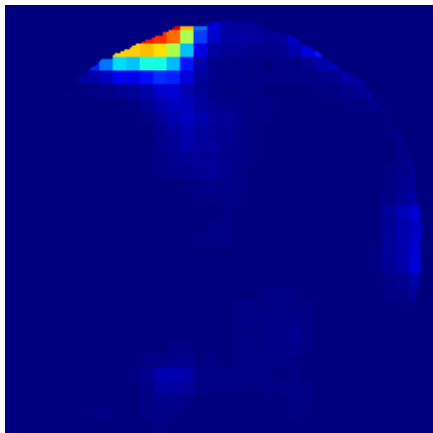
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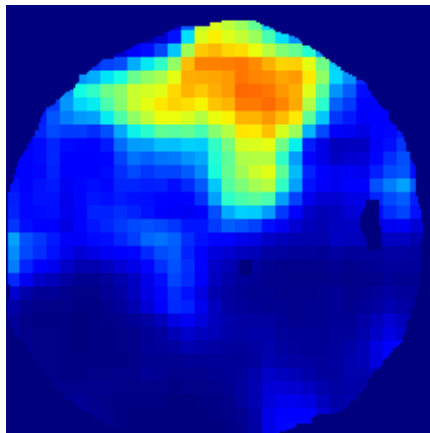
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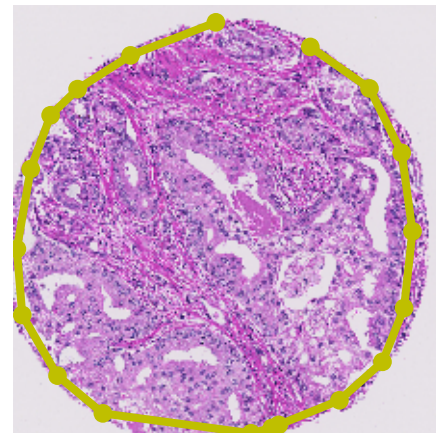
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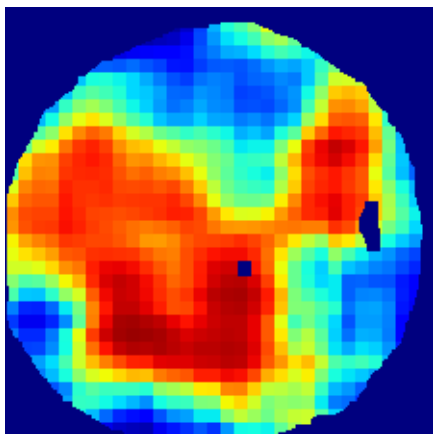
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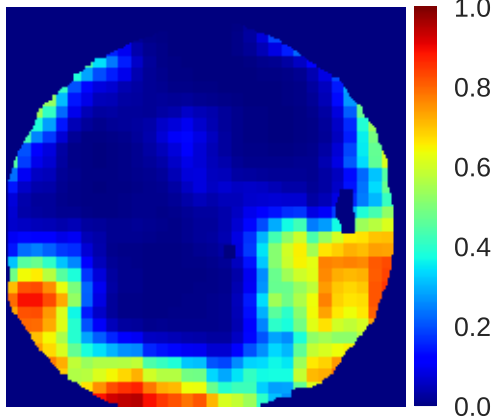
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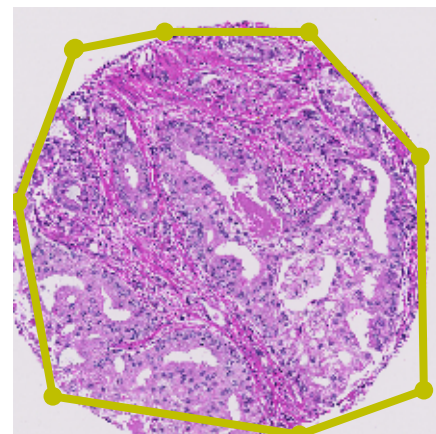
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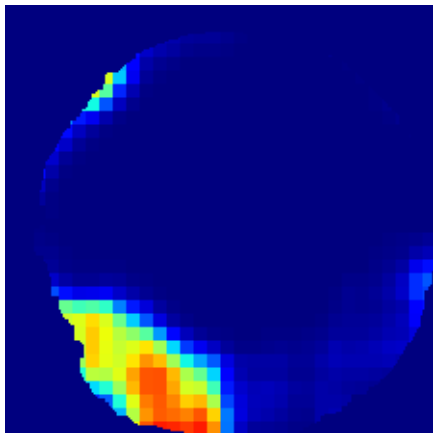
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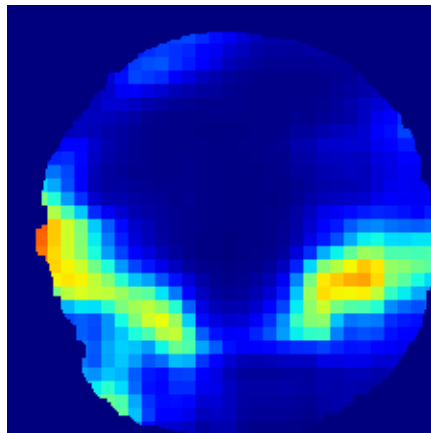
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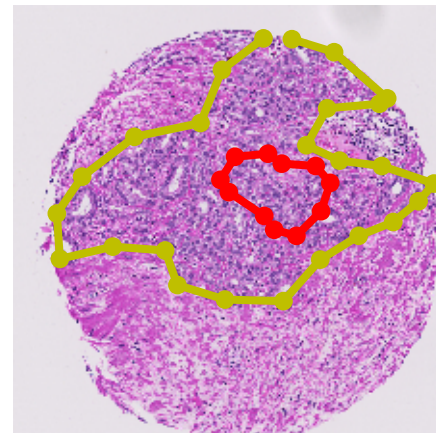
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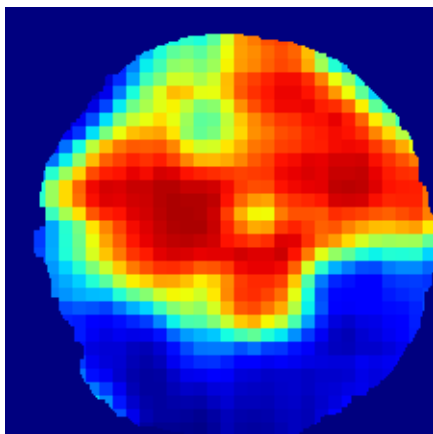
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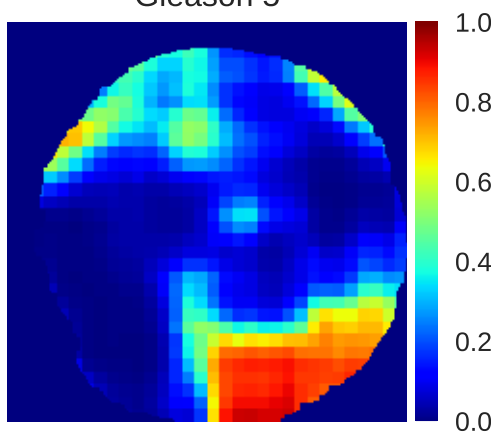
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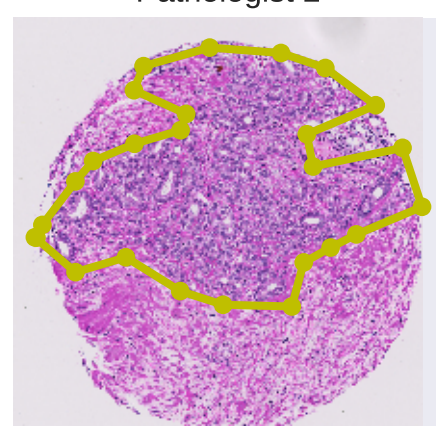
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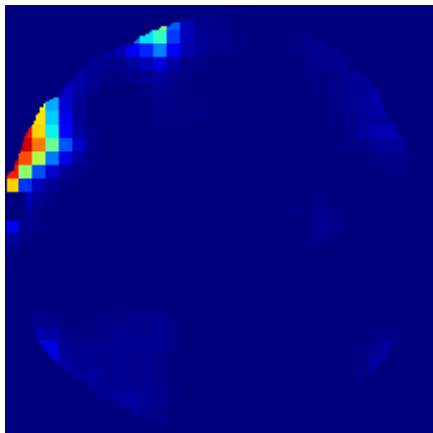
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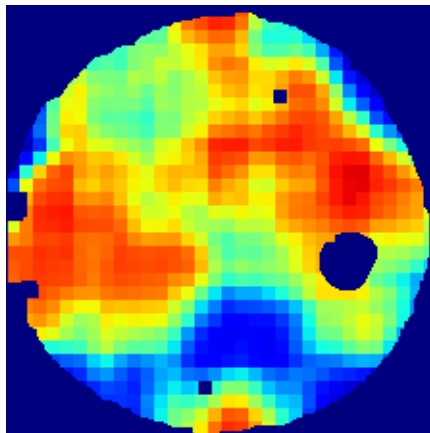
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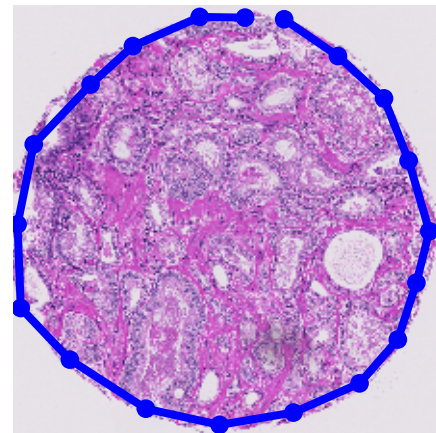
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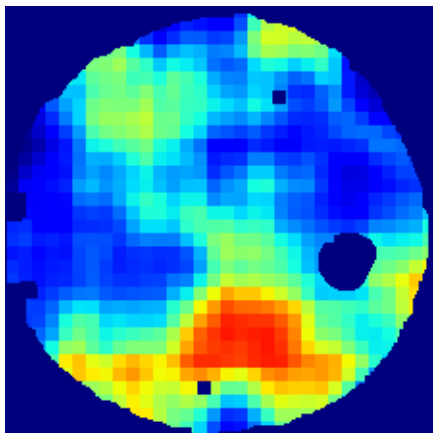
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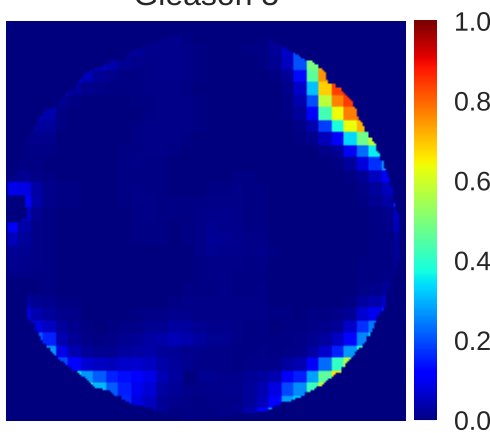
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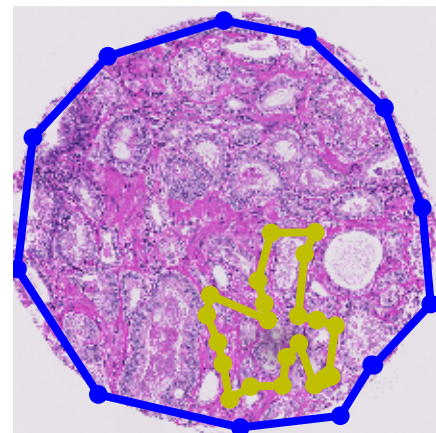
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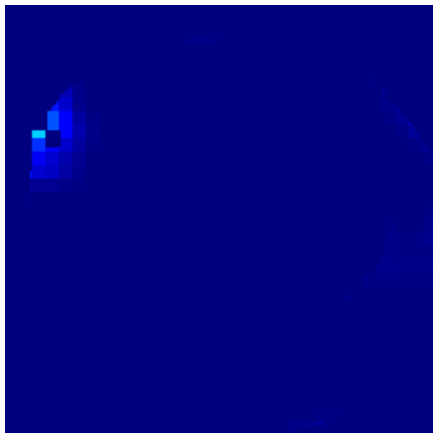
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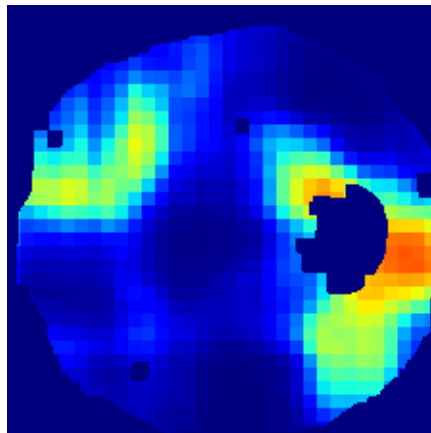
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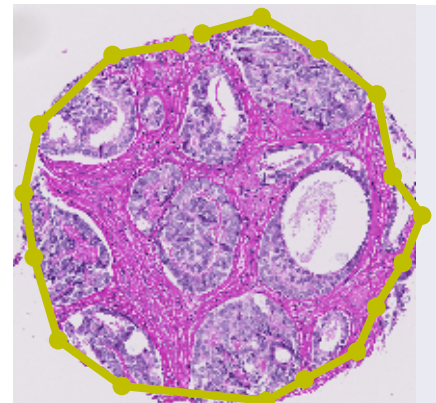
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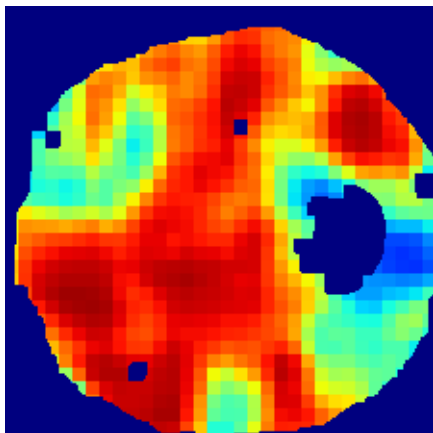
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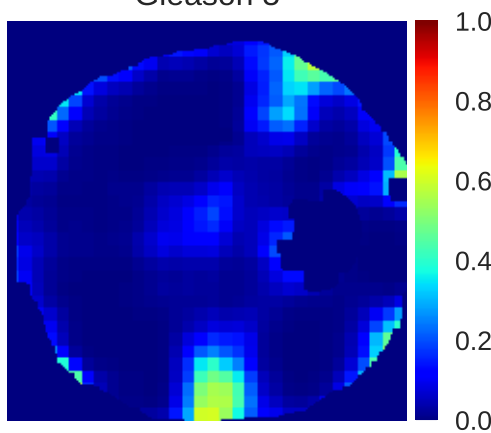
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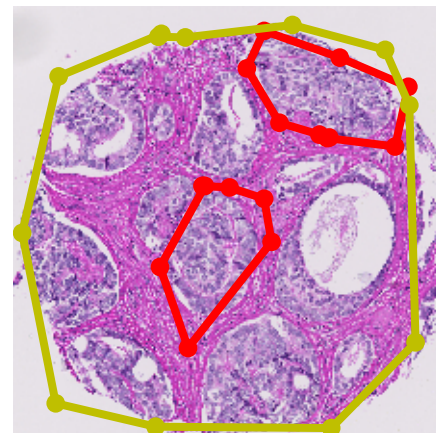
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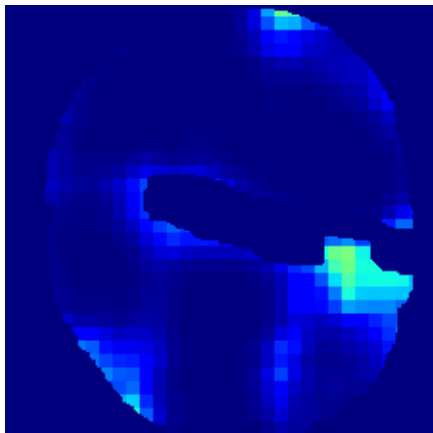
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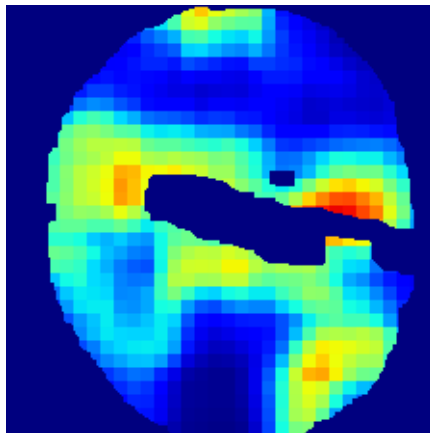
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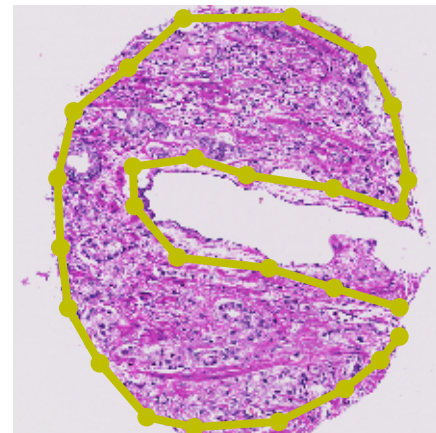
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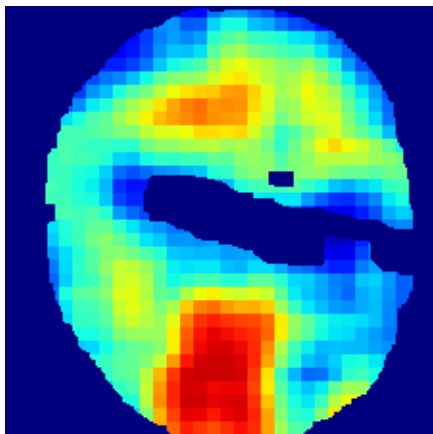
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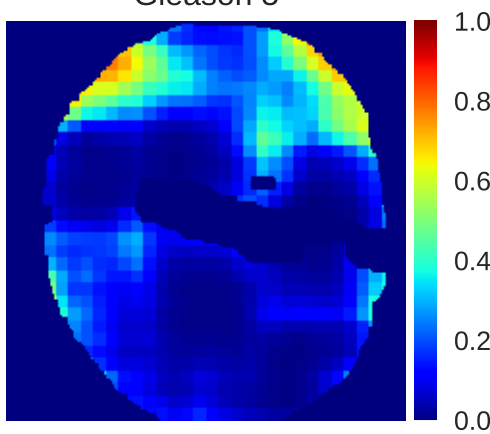
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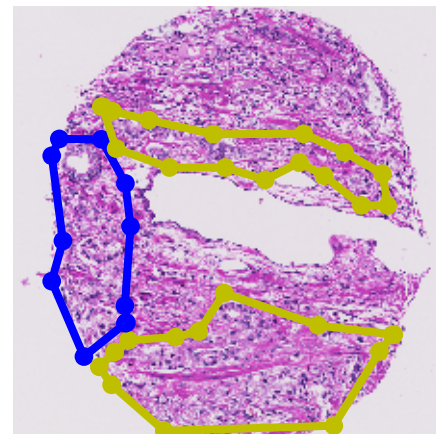
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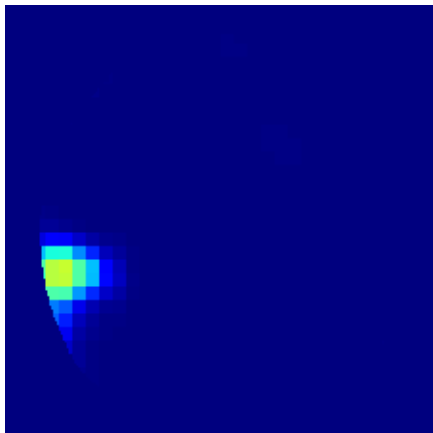
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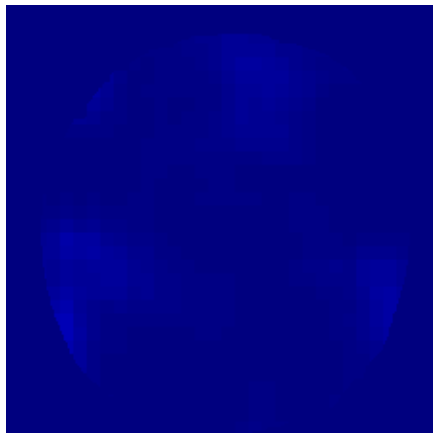
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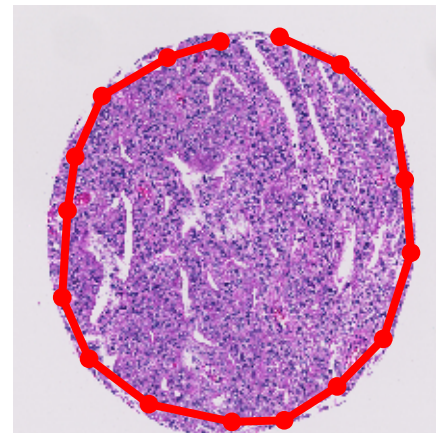
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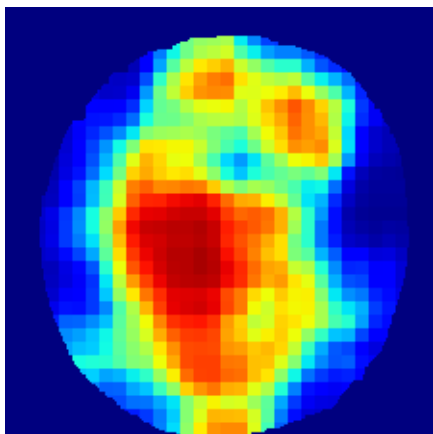
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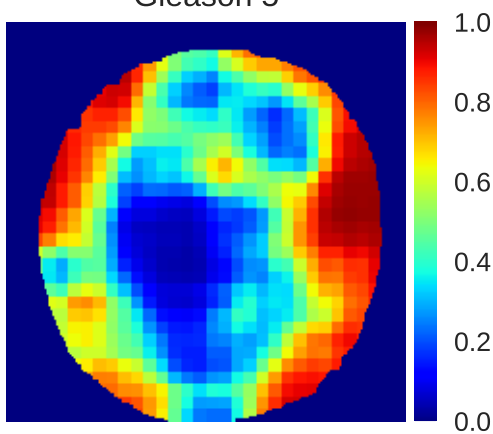
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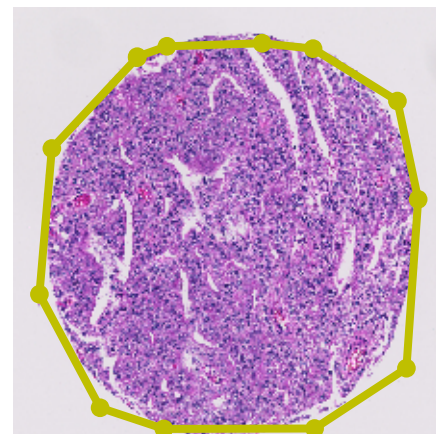
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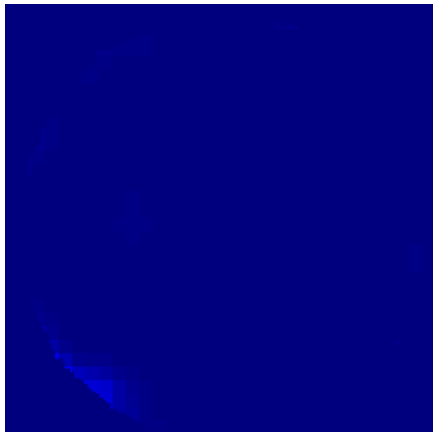
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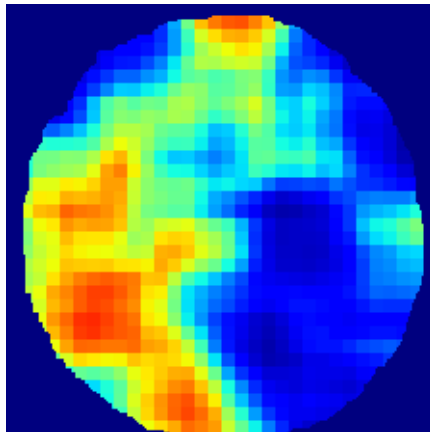
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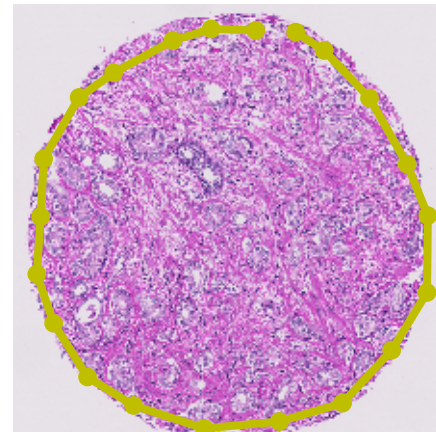
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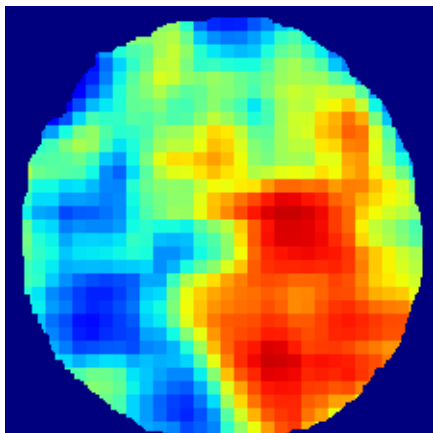
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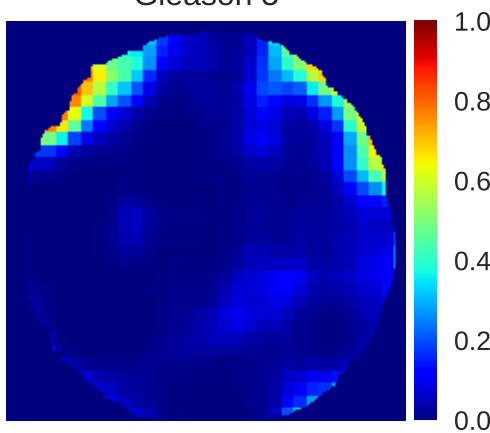
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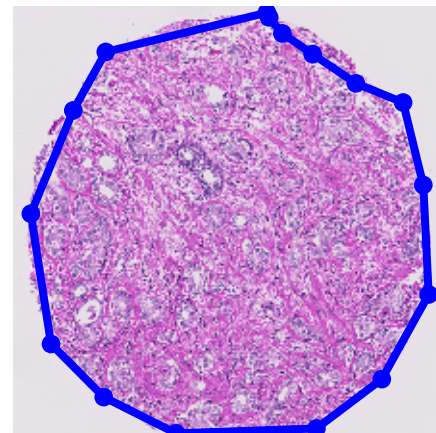
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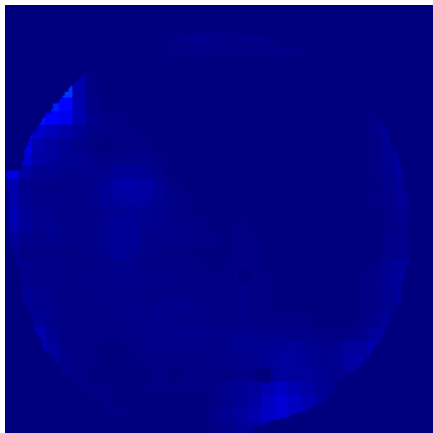
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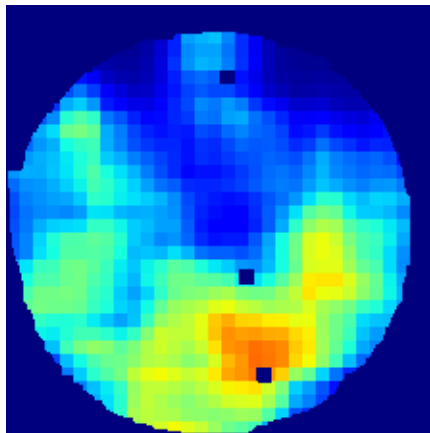
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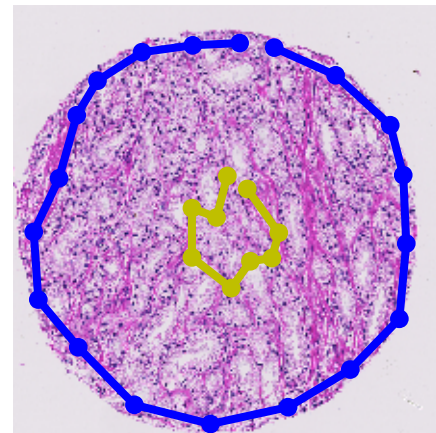
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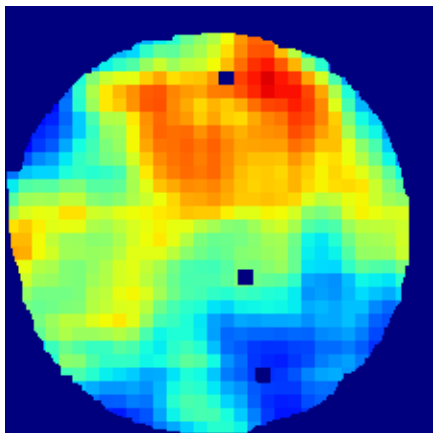
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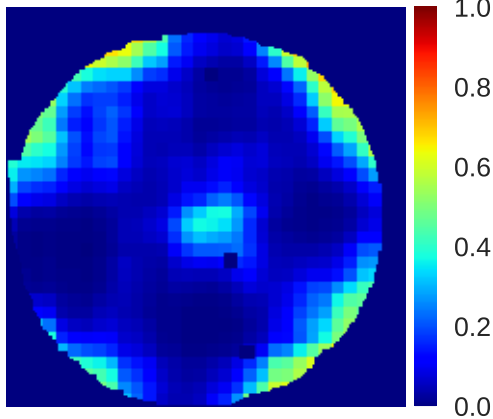
Pathologist 1



Gleason 4



Gleason 5



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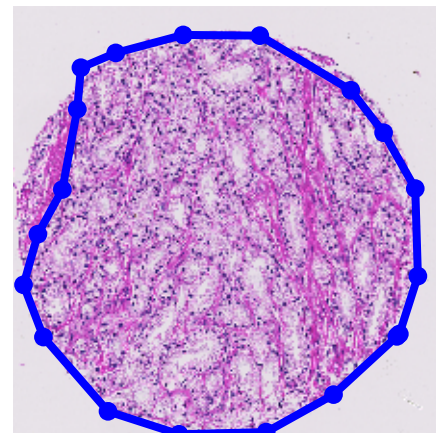
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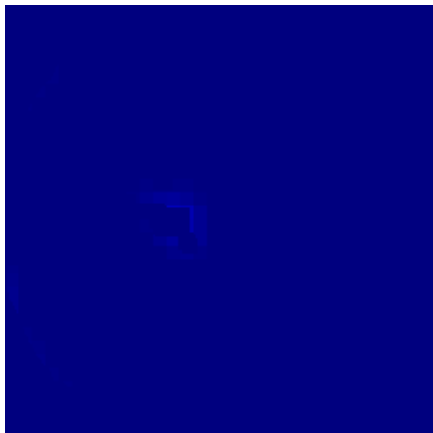
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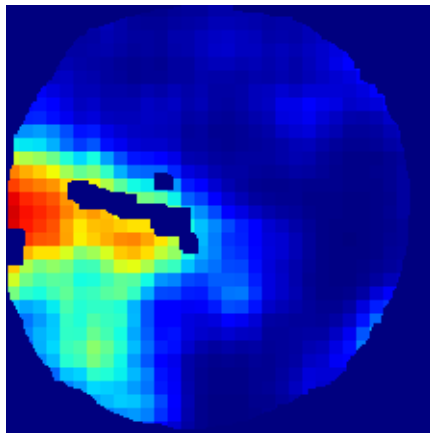
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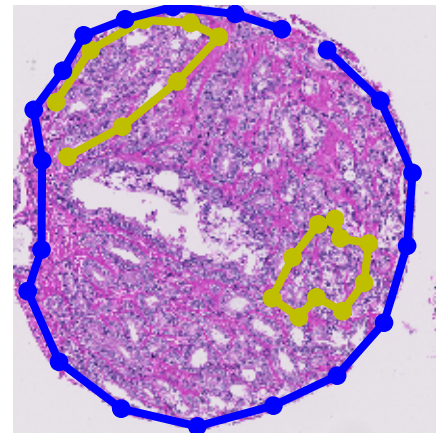
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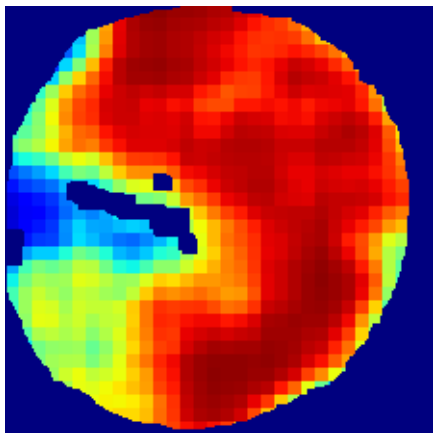
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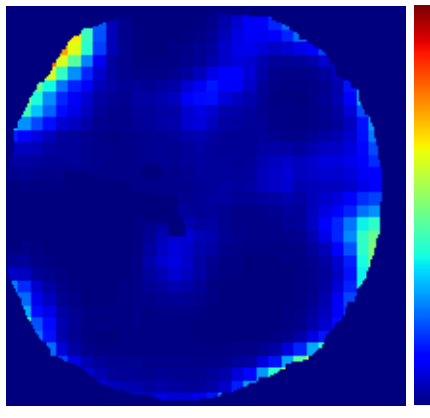
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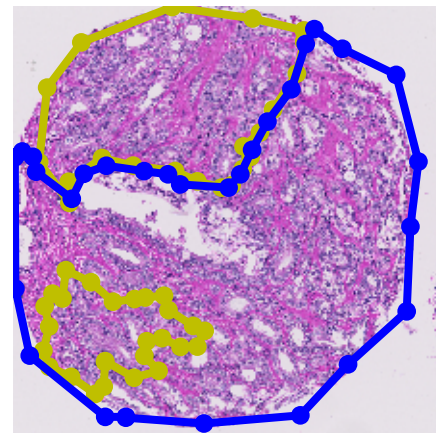
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Gleason 5



Pathologist 2



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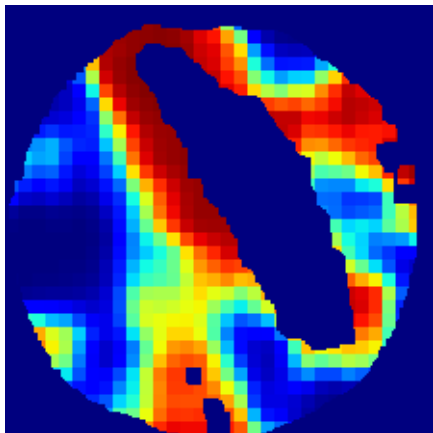
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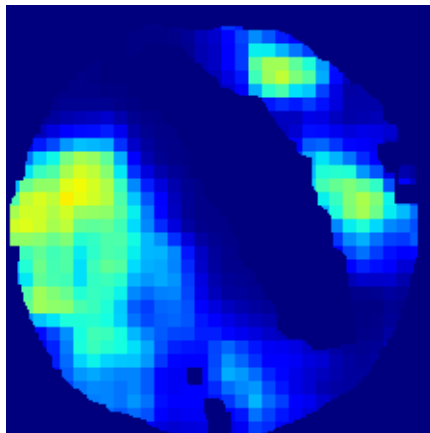
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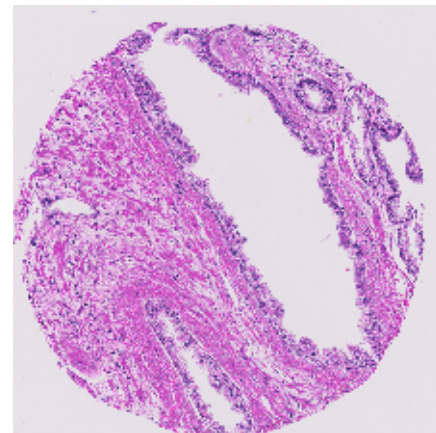
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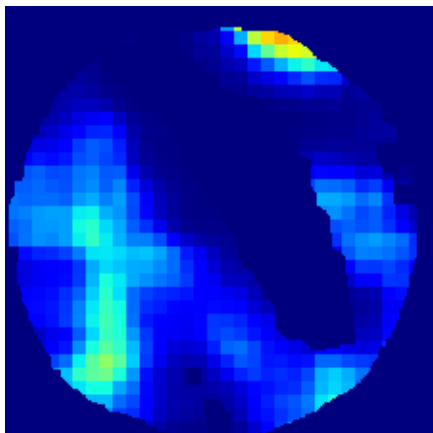
Gleason 3



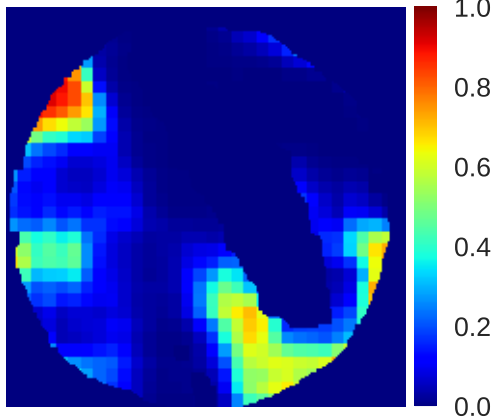
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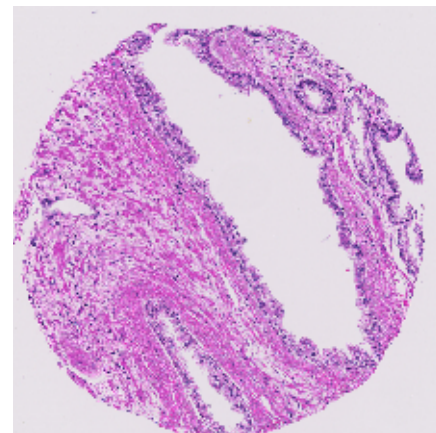
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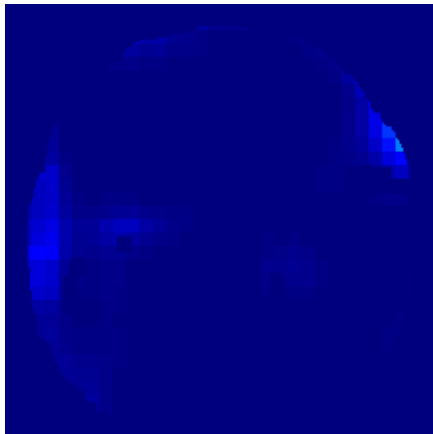
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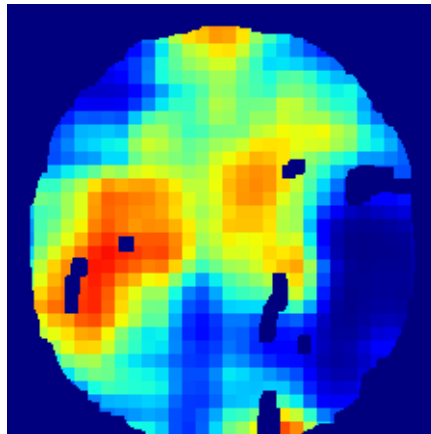
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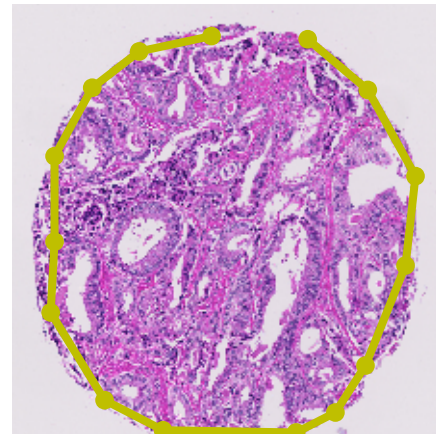
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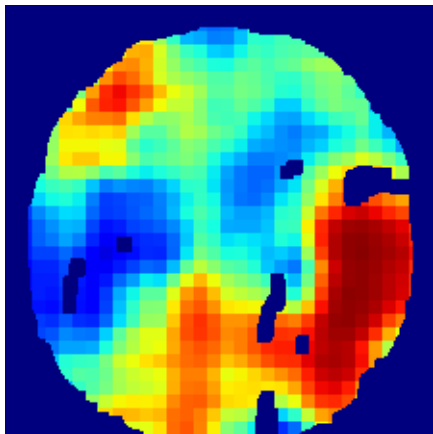
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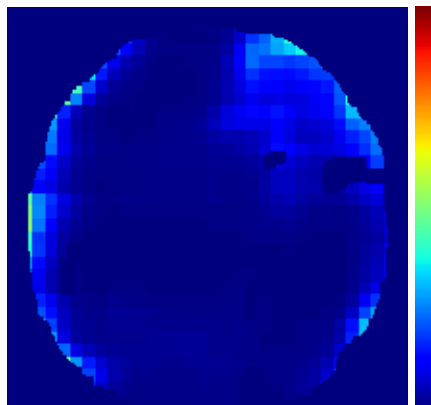
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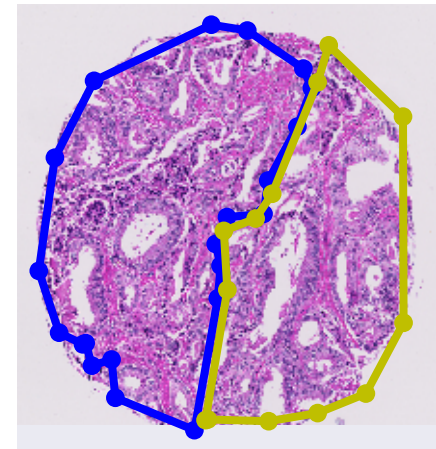
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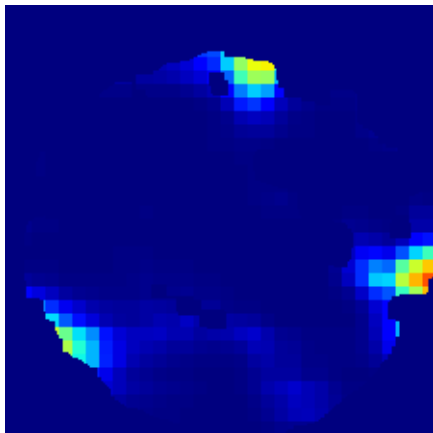
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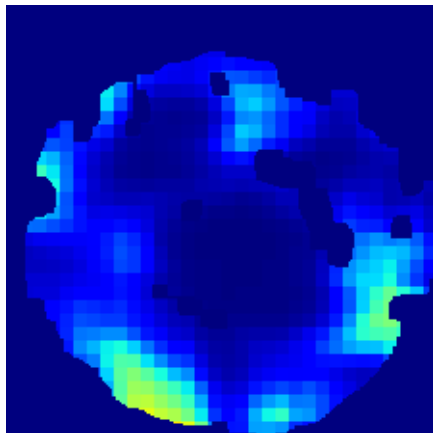
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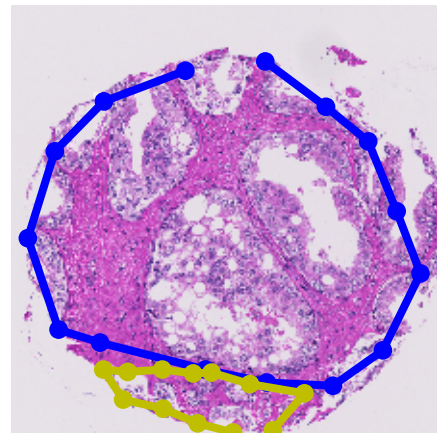
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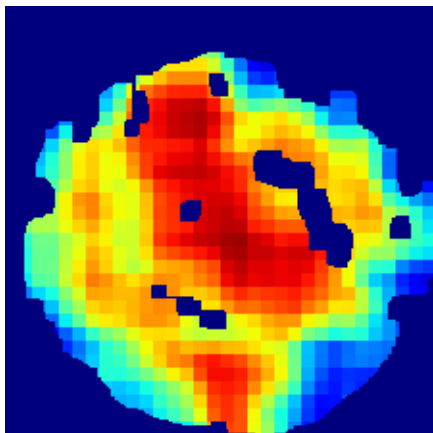
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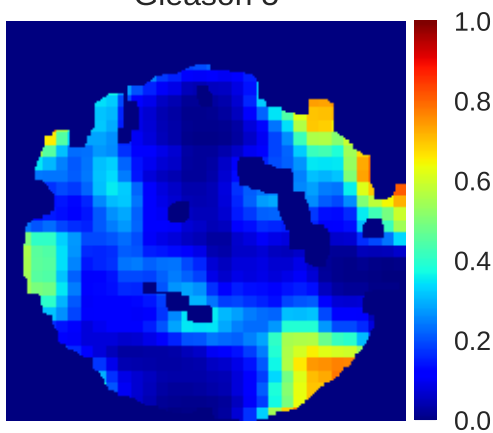
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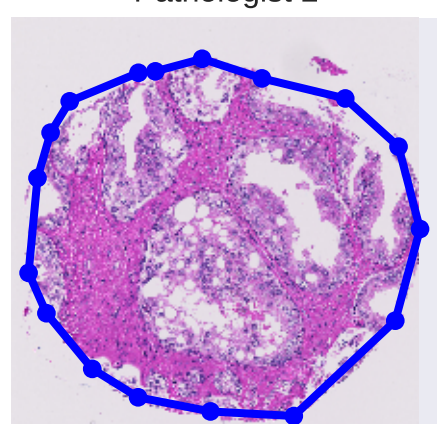
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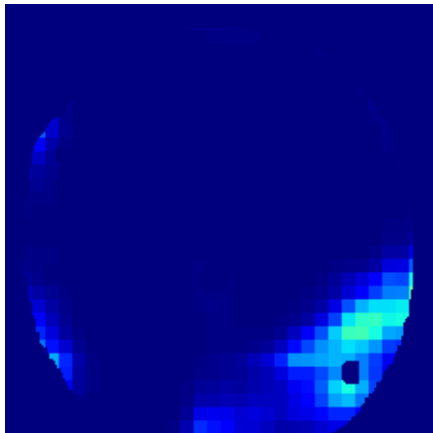
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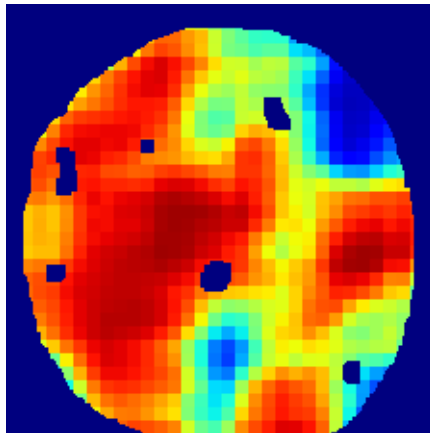
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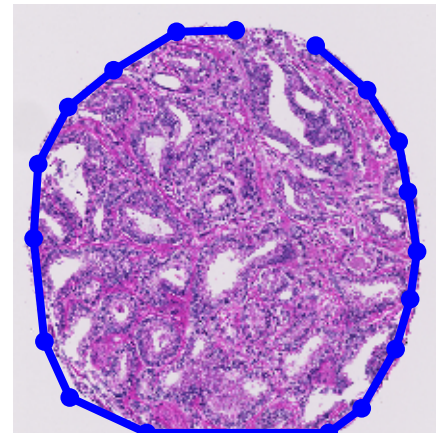
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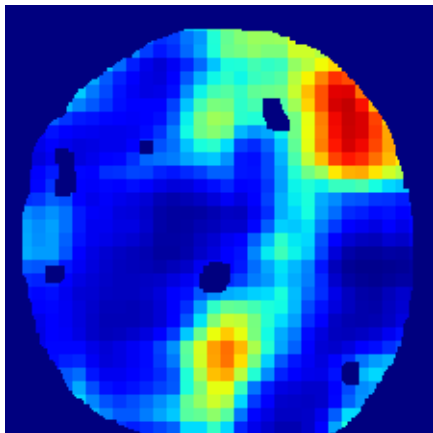
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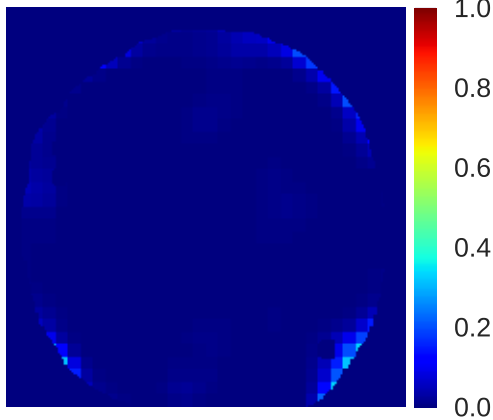
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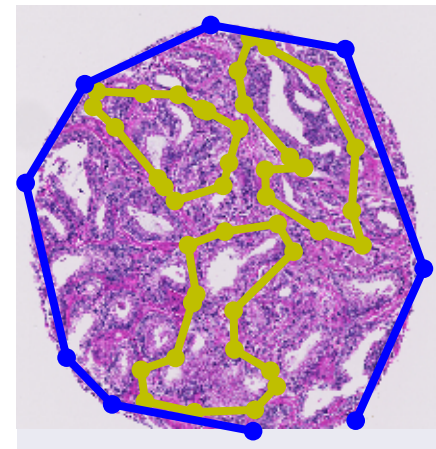
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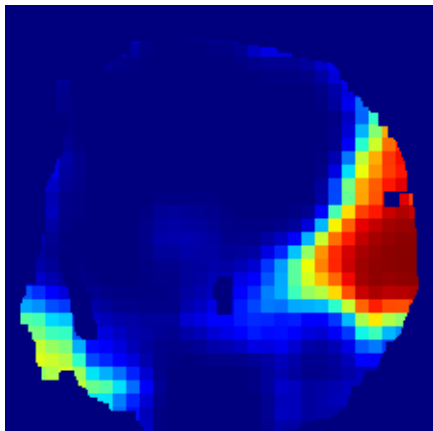
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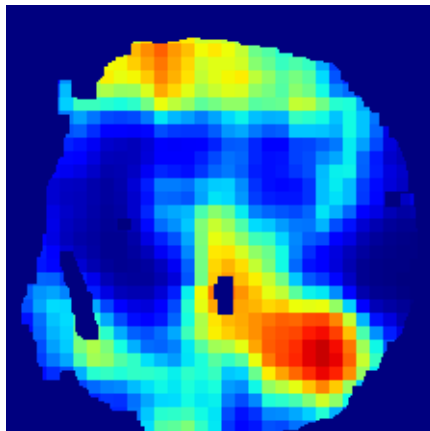
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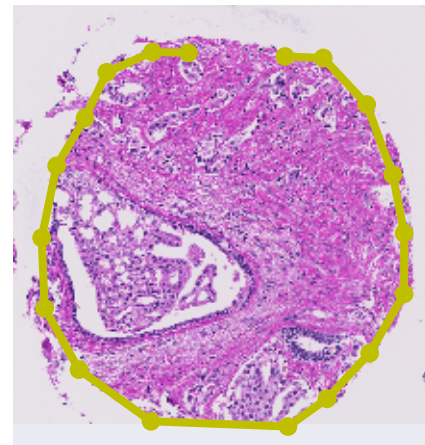
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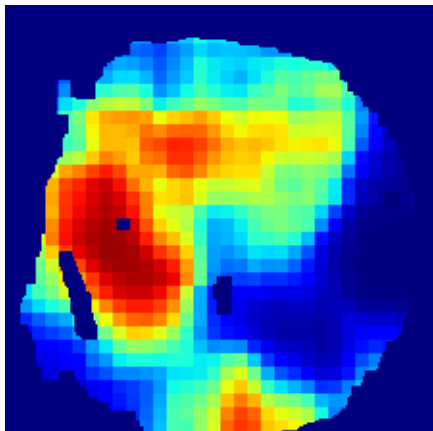
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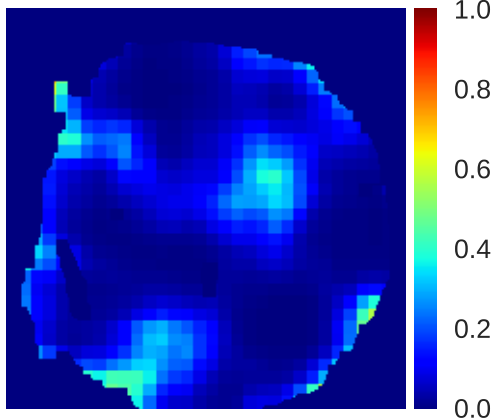
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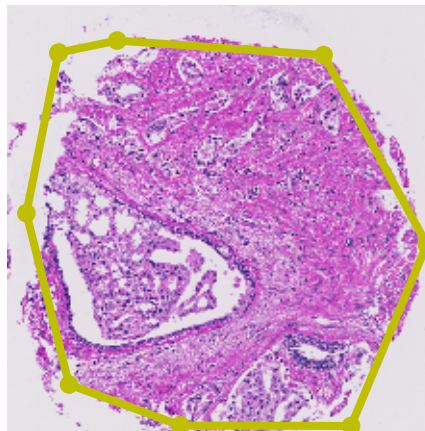
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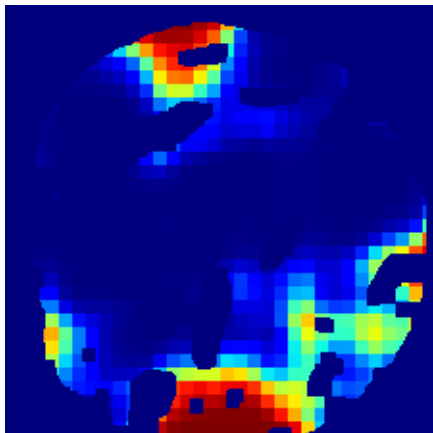
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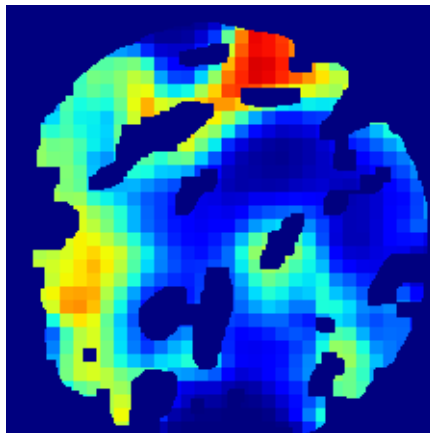
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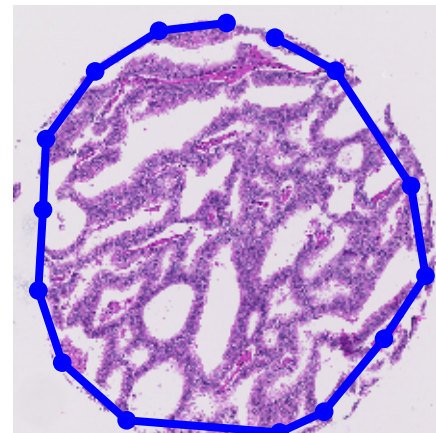
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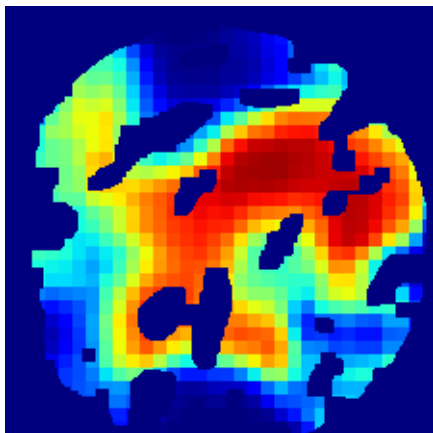
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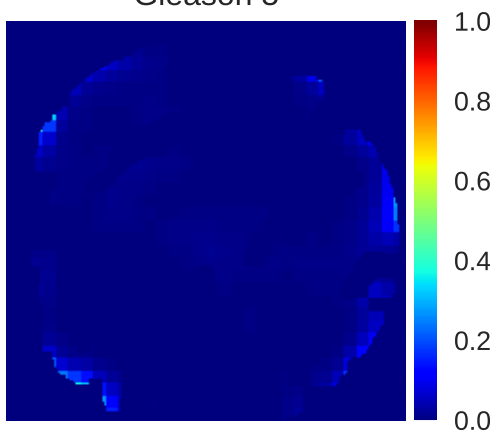
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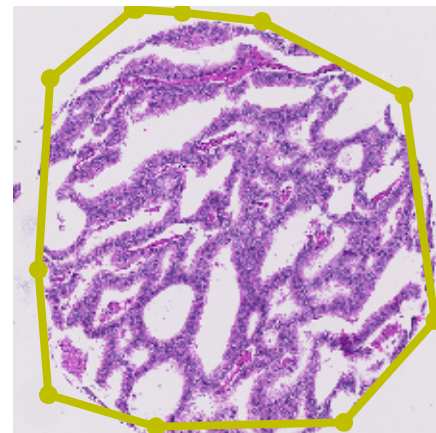
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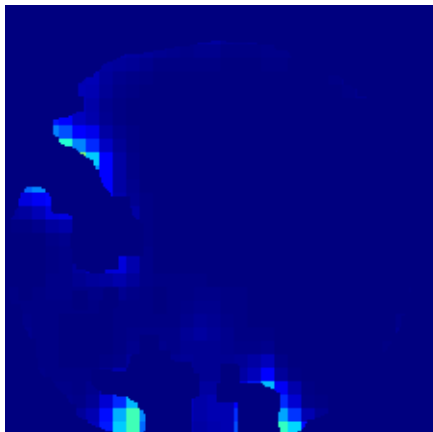
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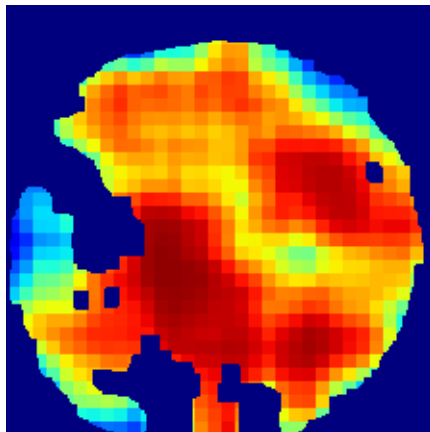
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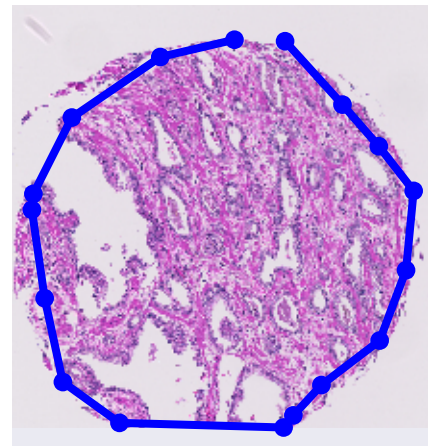
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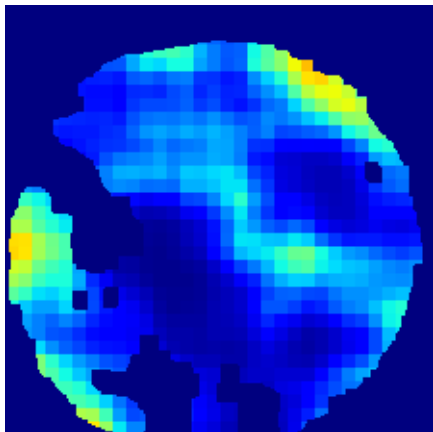
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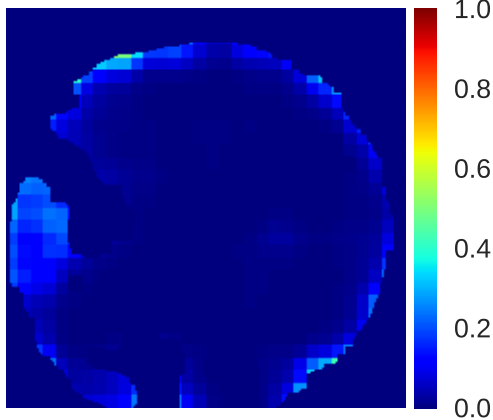
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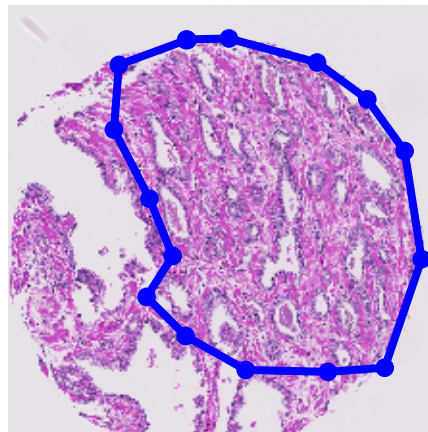
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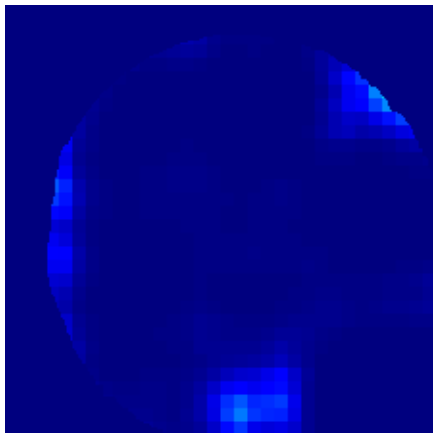
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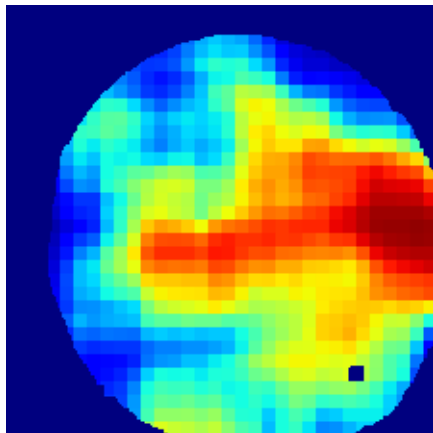
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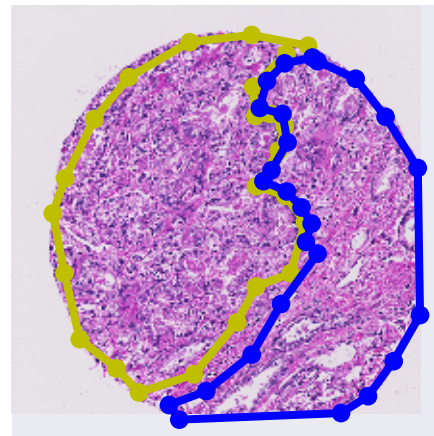
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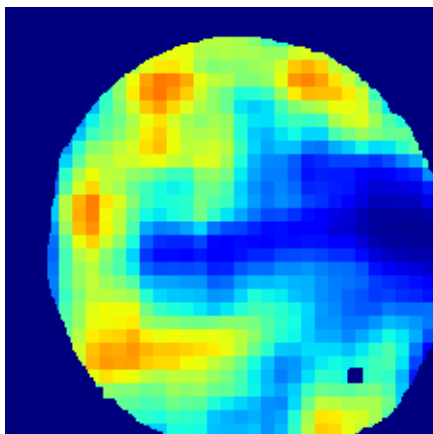
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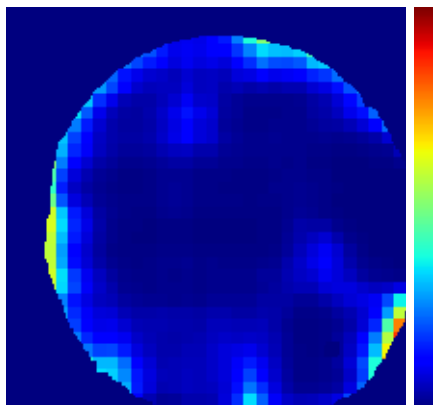
Pathologist 1



Gleason 4



Gleason 5



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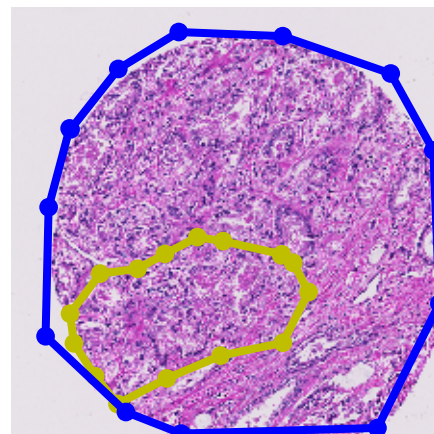
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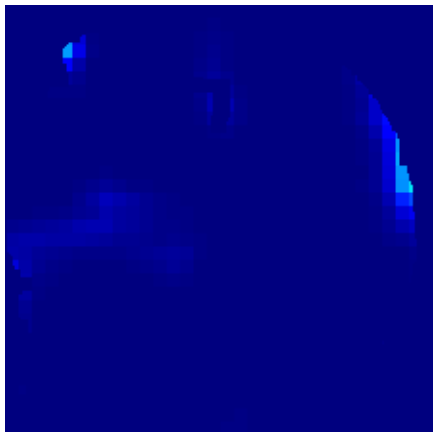
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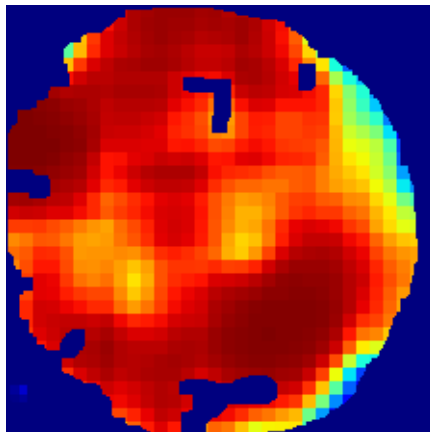
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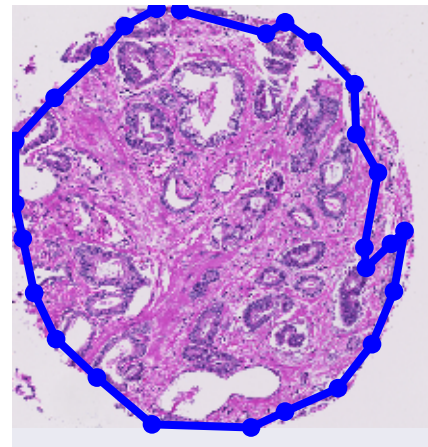
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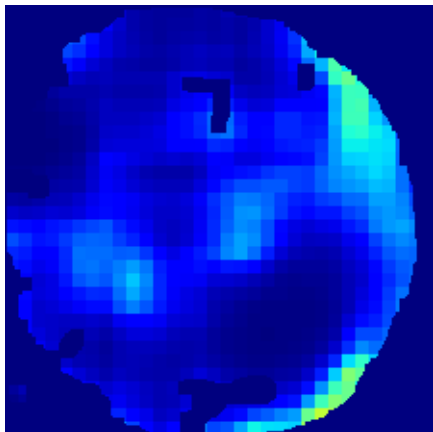
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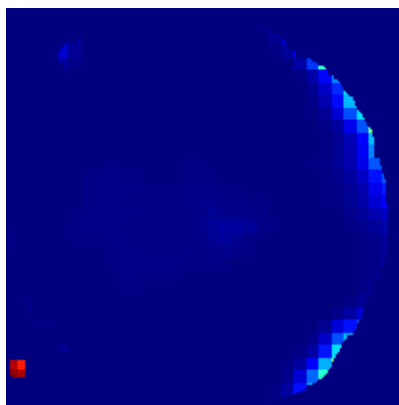
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Gleason 4



Gleason 5



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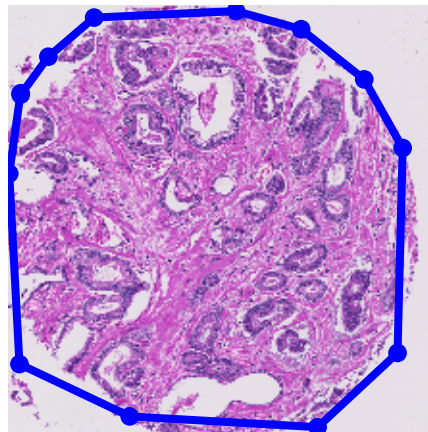
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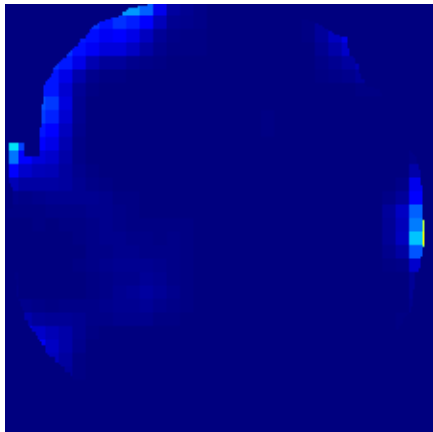
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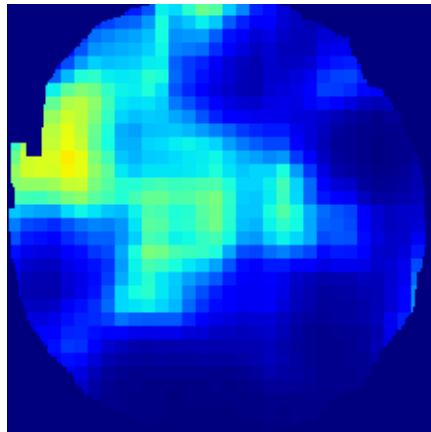
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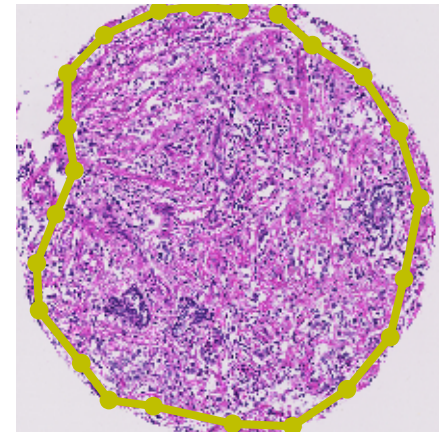
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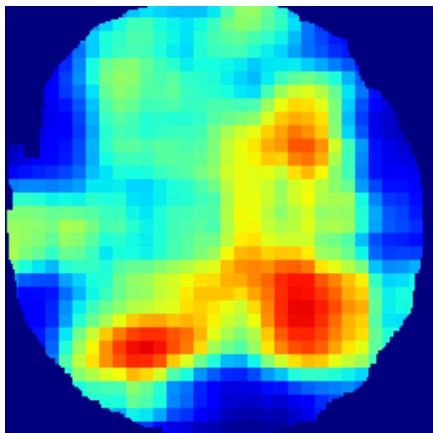
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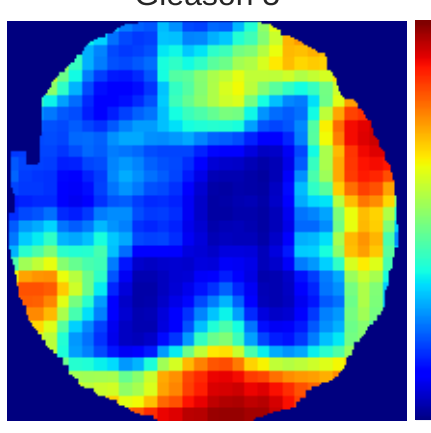
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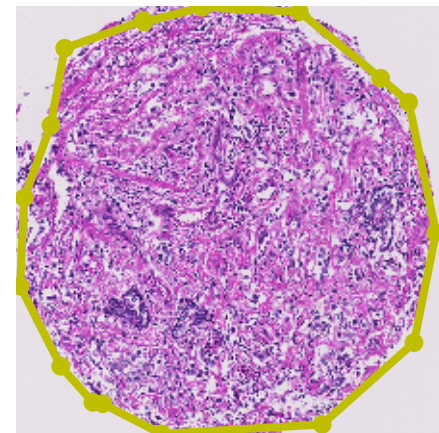
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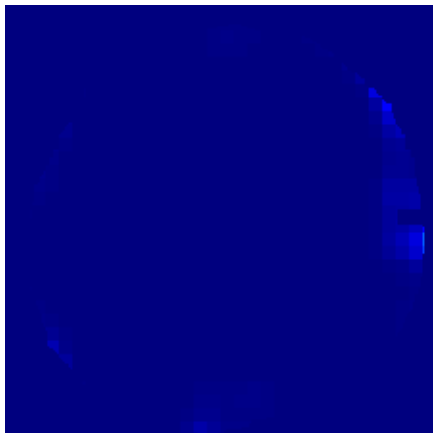
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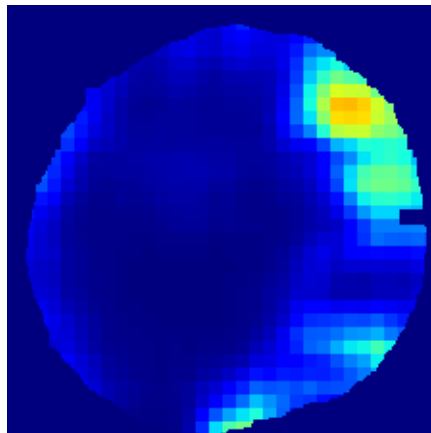
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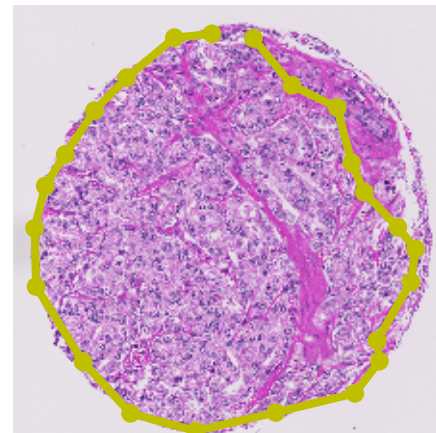
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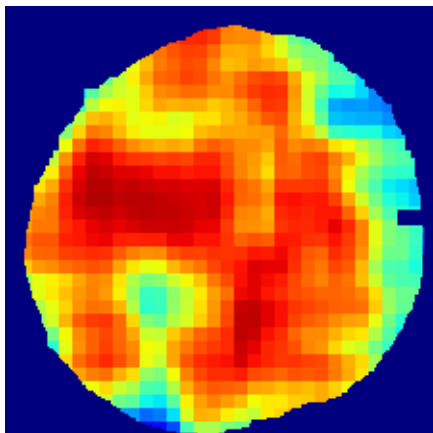
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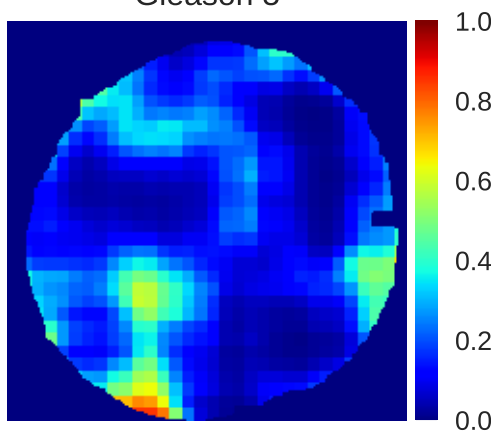
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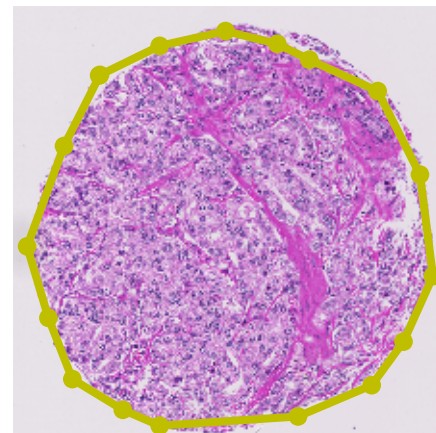
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Gleason 5



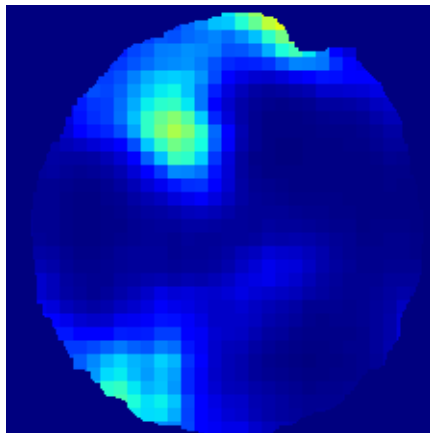
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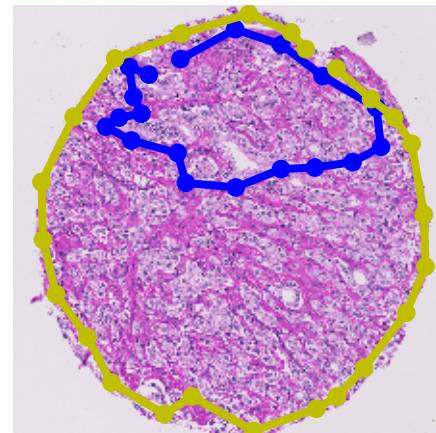
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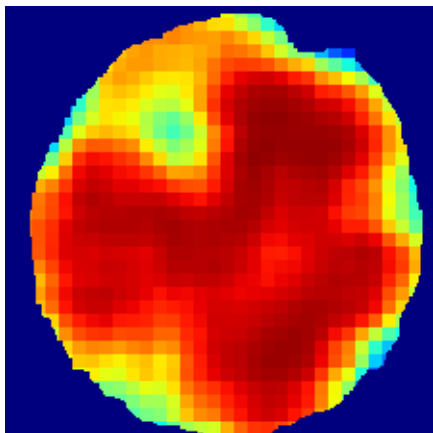
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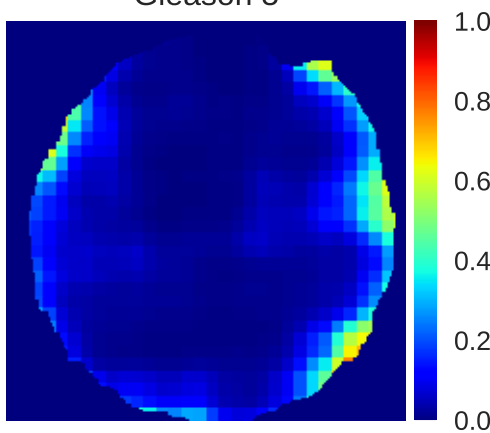
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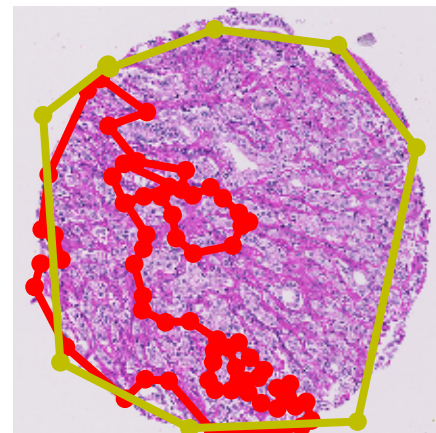
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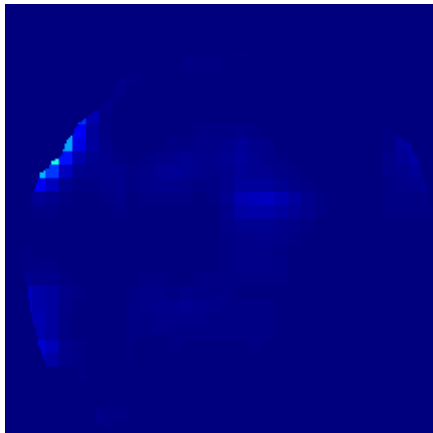
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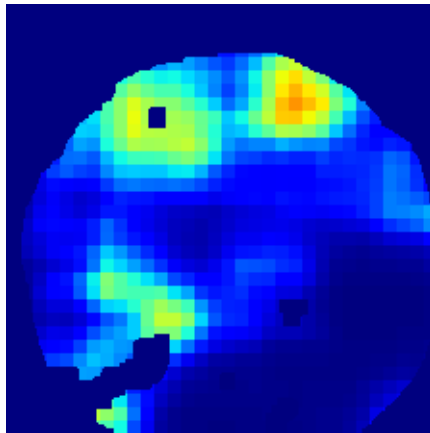
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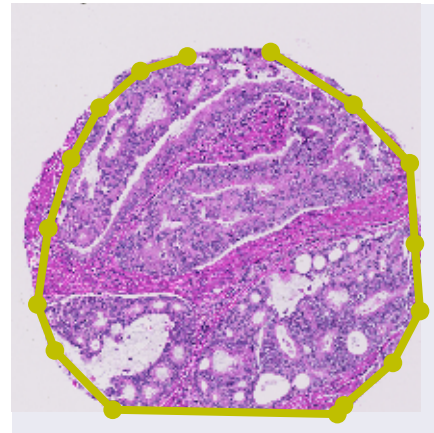
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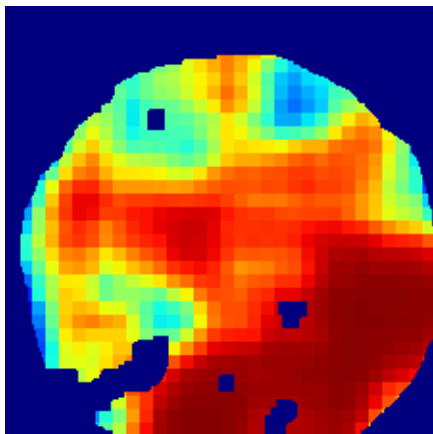
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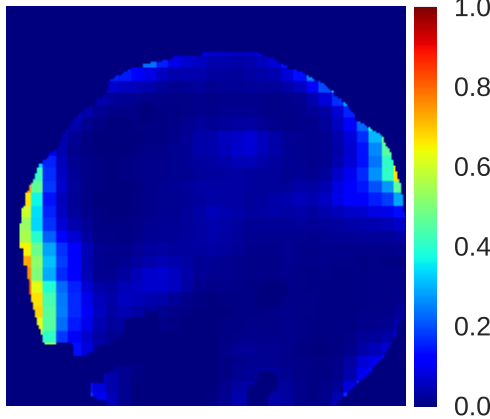
Pathologist 1



Gleason 4



Gleason 5



1.0

0.8

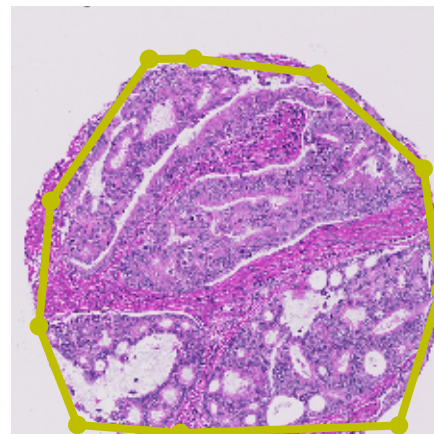
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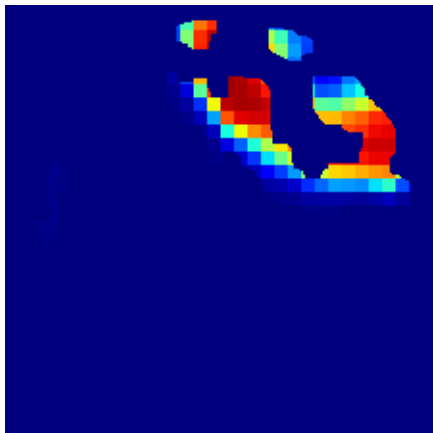
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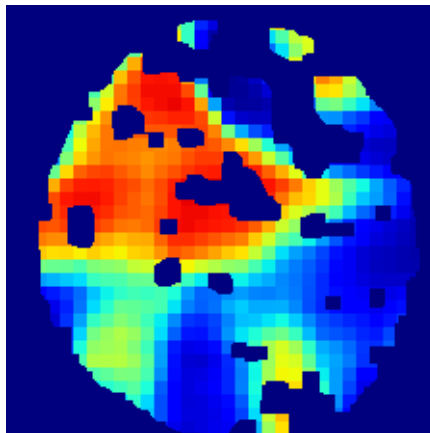
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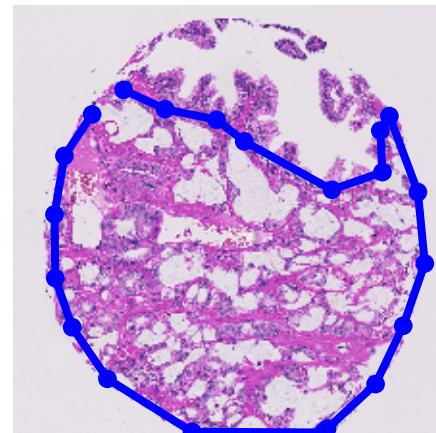
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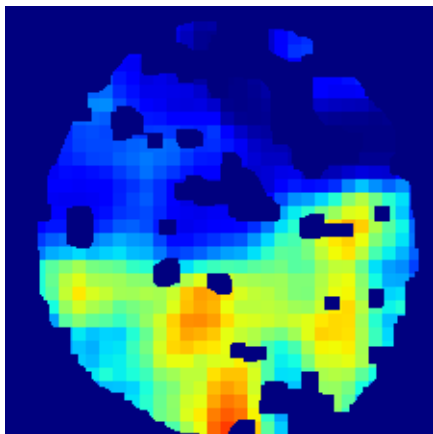
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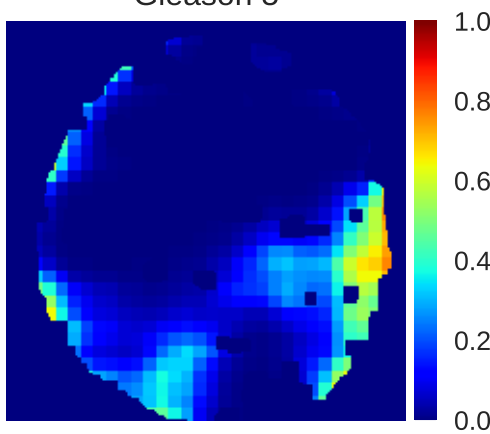
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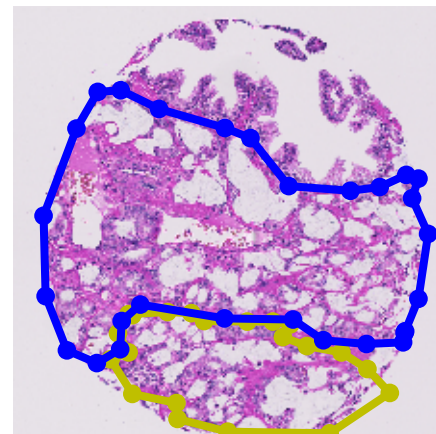
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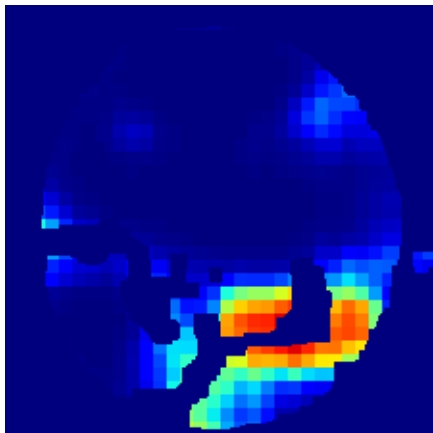
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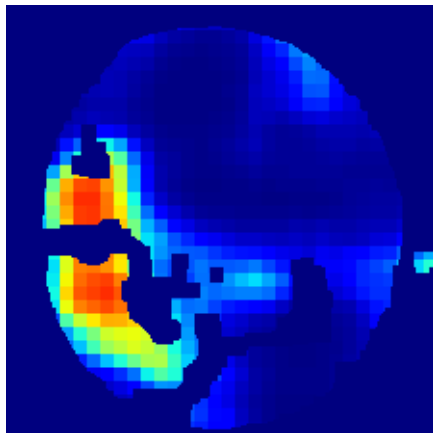
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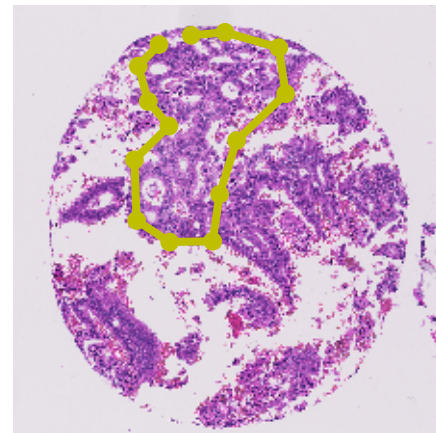
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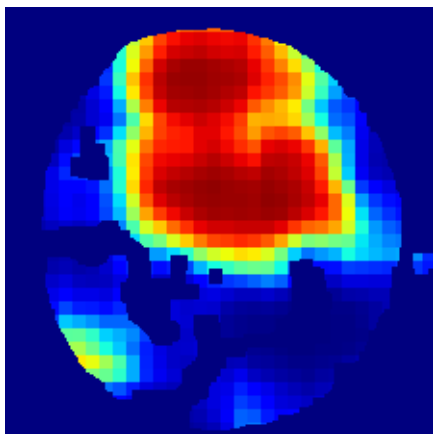
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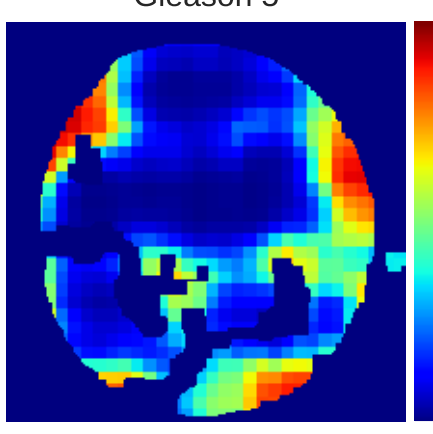
Pathologist 1



Gleason 4



Gleason 5



1.0

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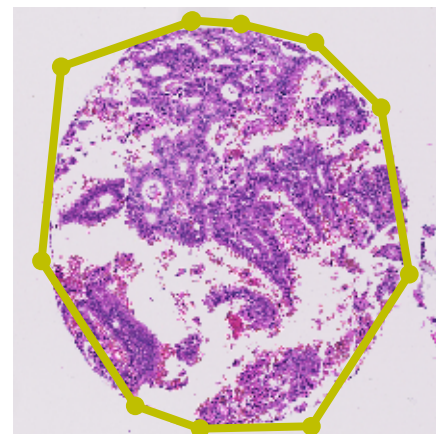
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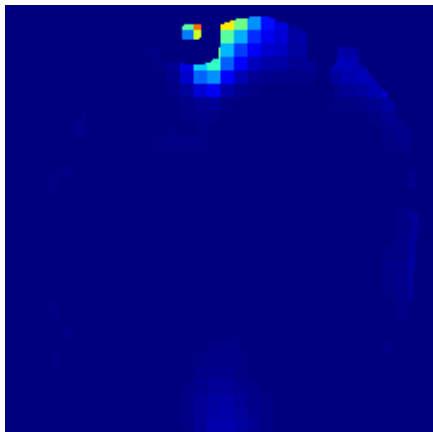
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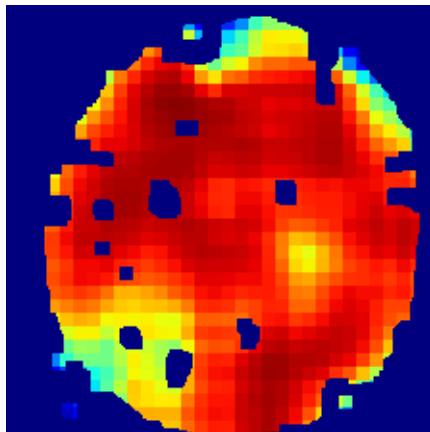
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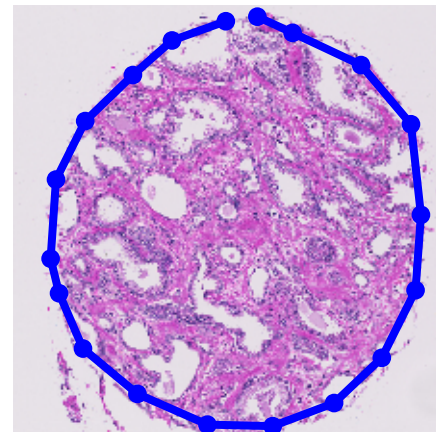
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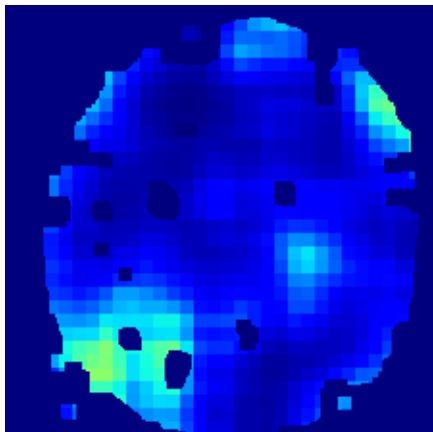
Gleason 3



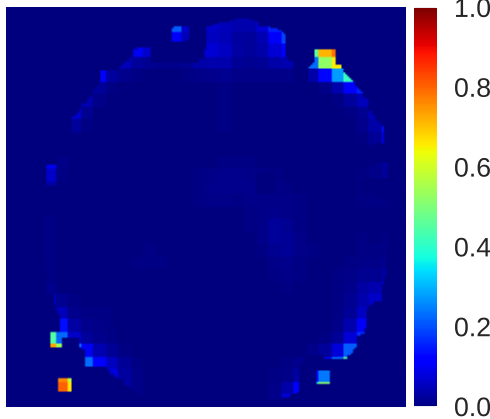
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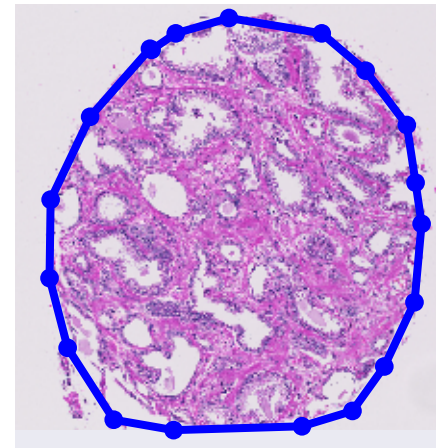
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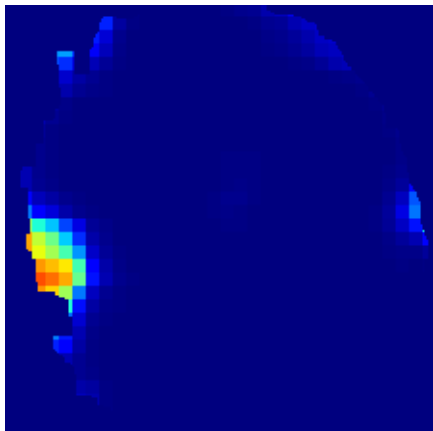
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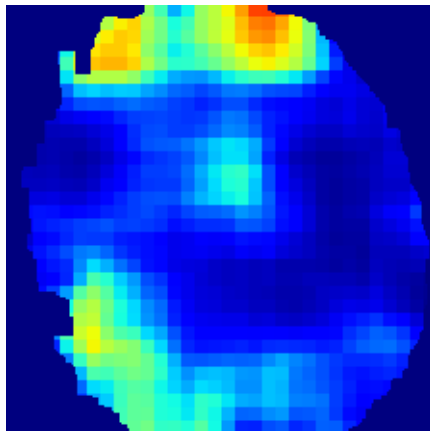
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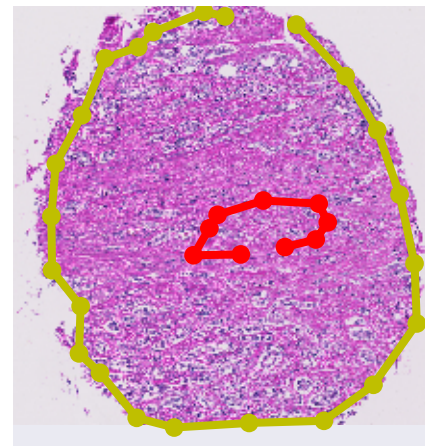
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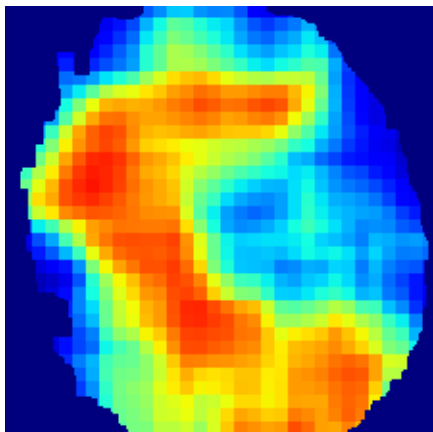
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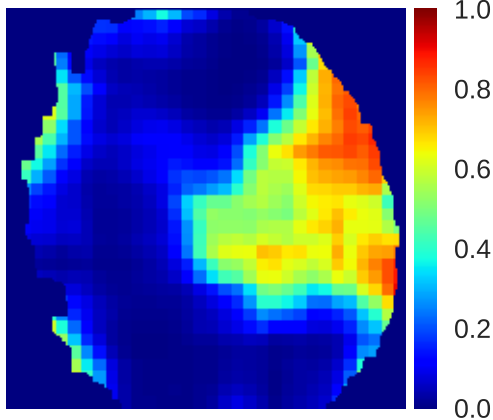
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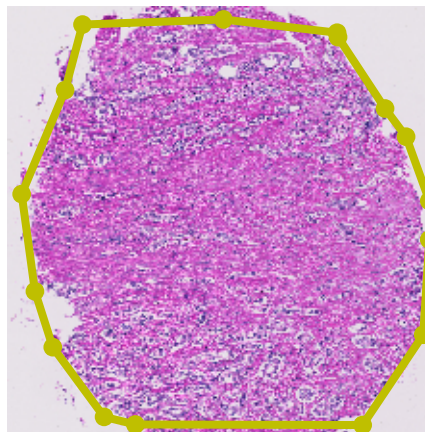
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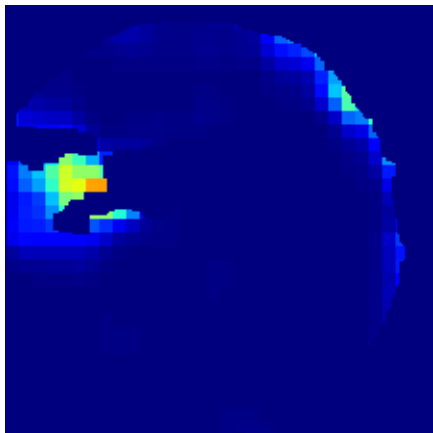
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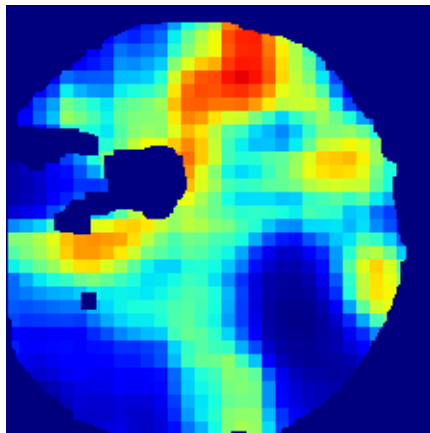
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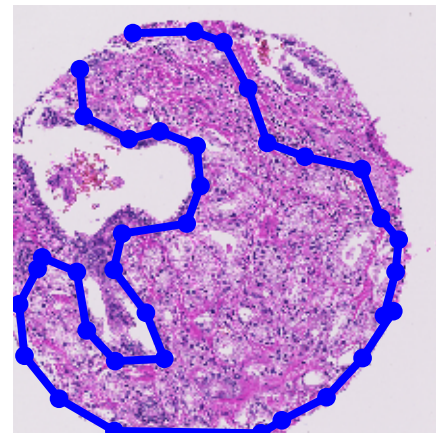
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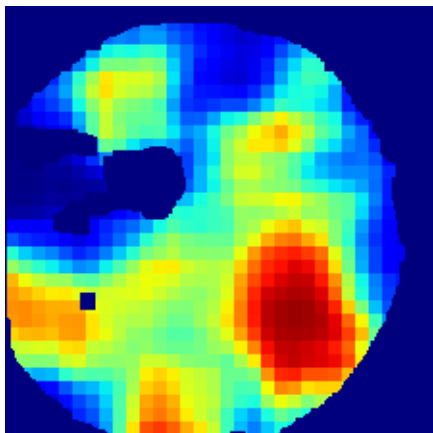
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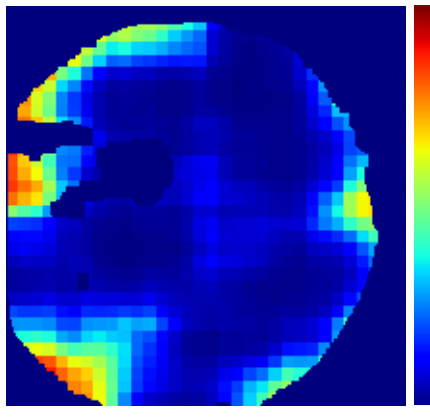
Pathologist 1



Gleason 4



Gleason 5



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0.8

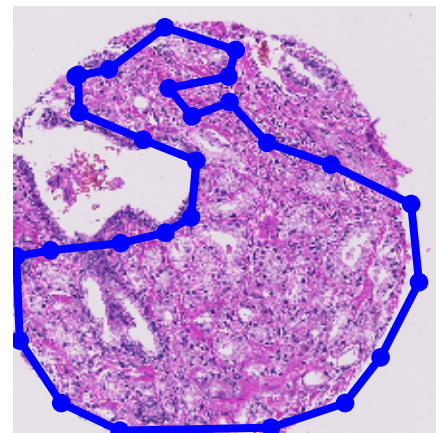
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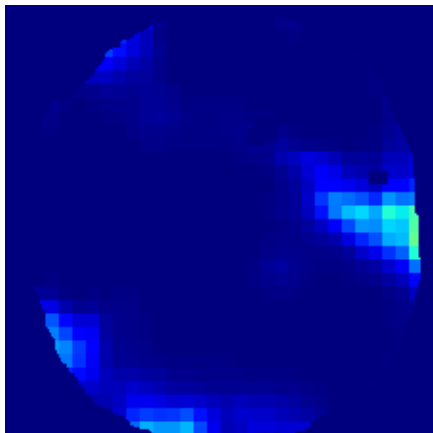
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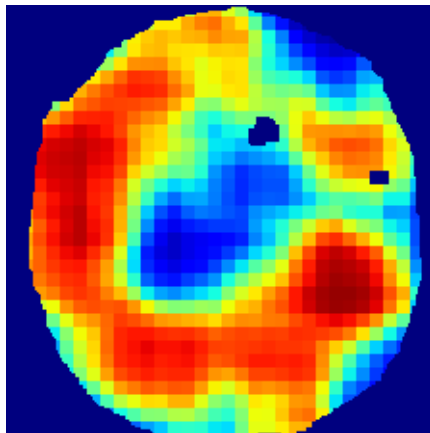
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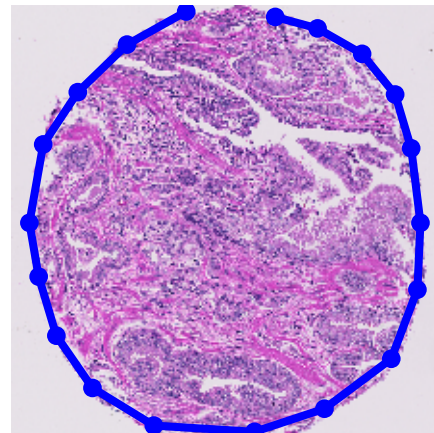
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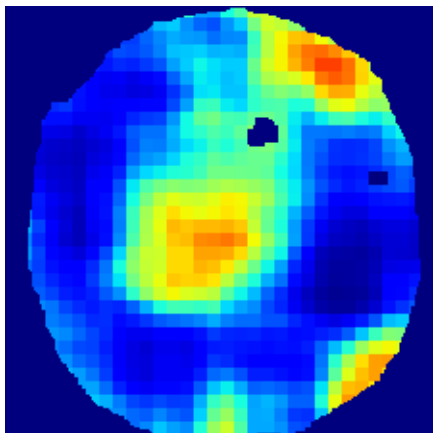
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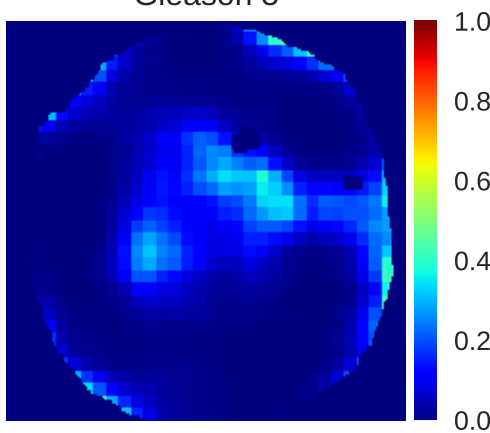
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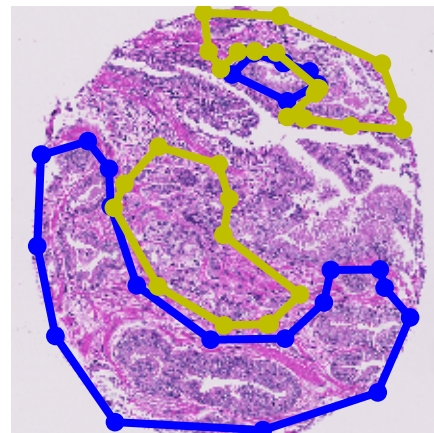
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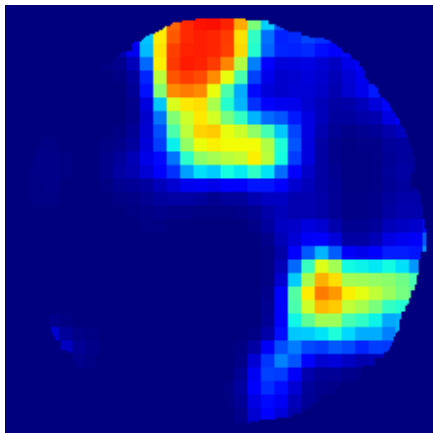
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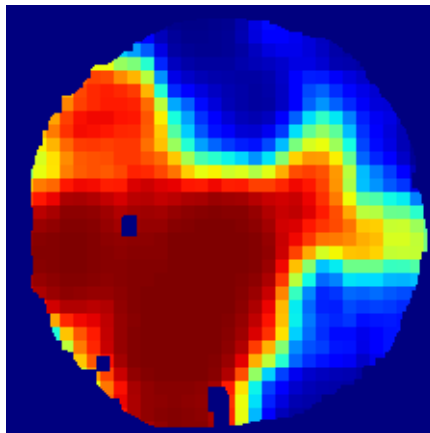
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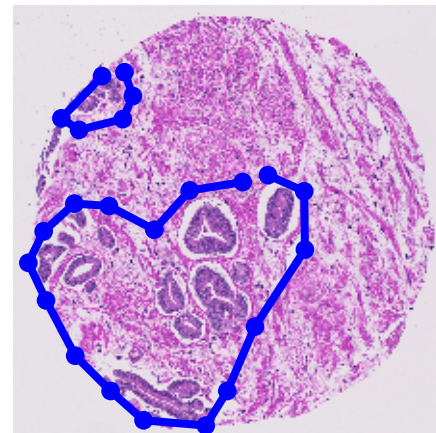
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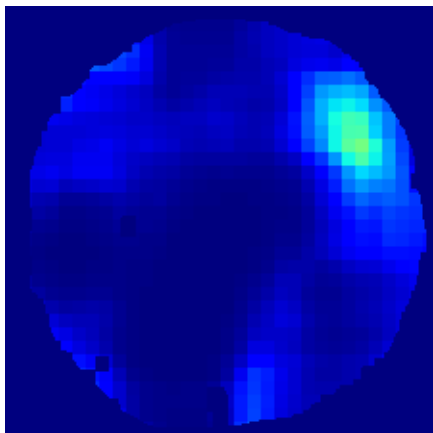
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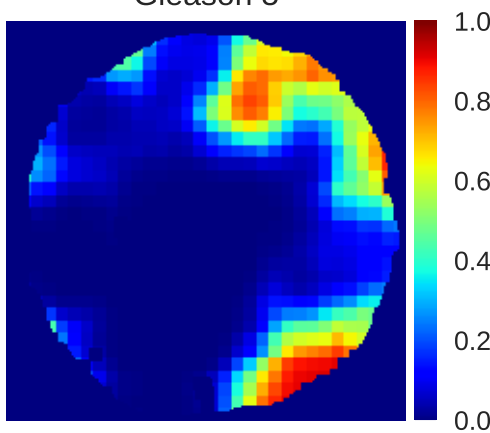
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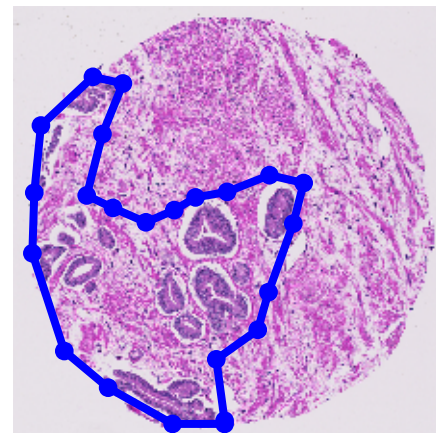
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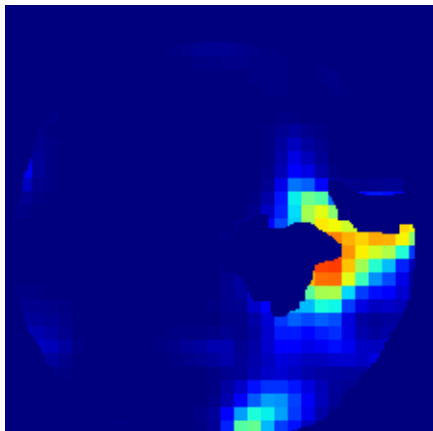
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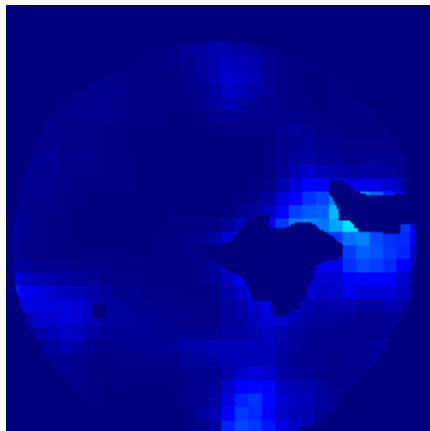
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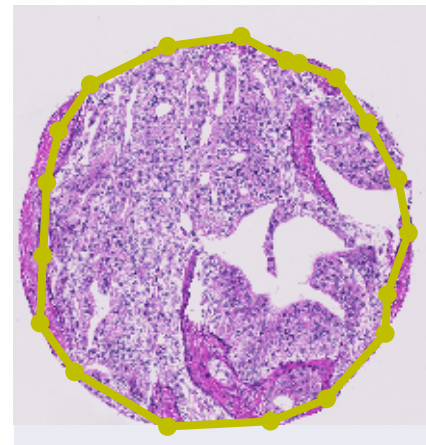
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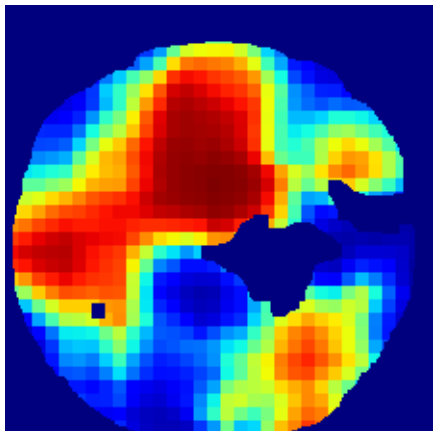
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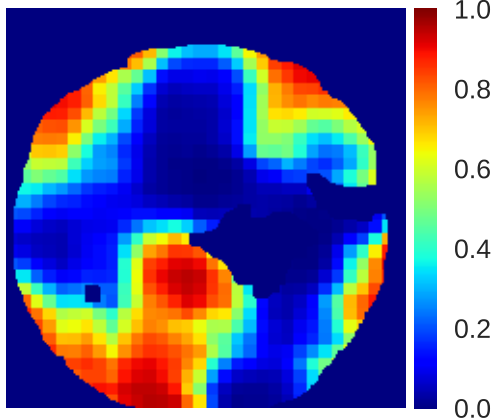
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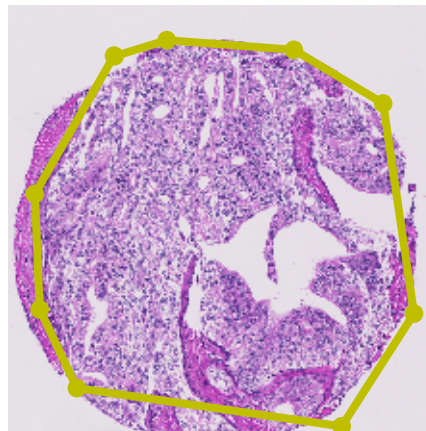
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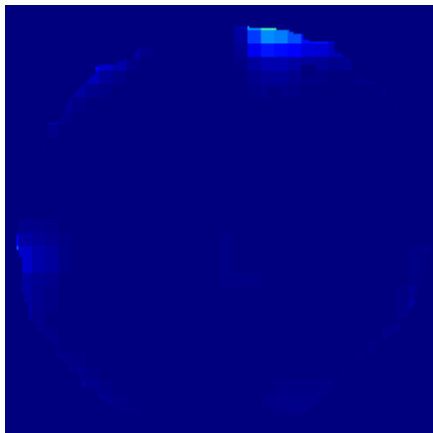
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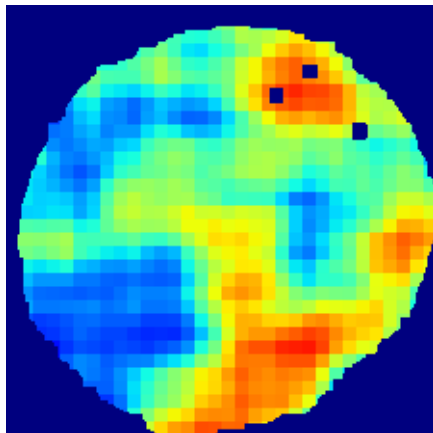
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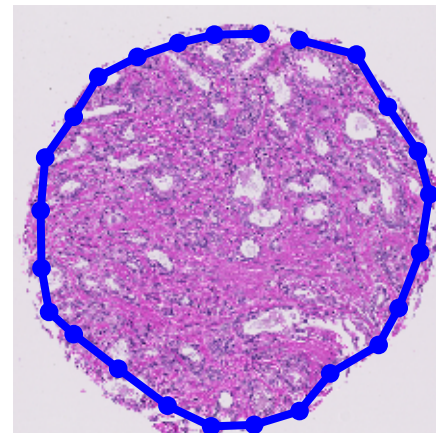
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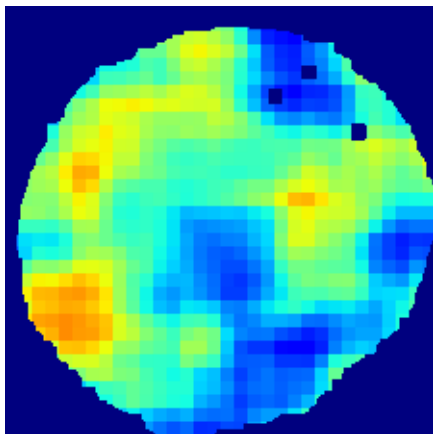
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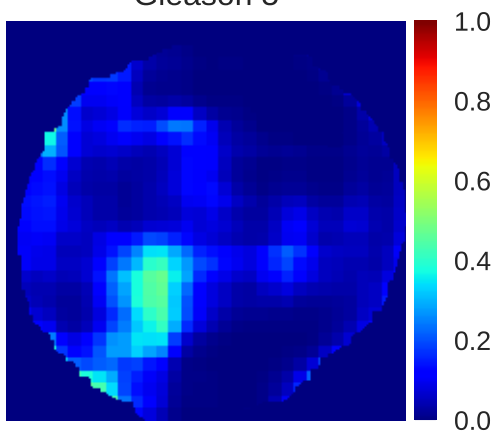
Pathologist 1



Gleason 4



Gleason 5



1.0

0.8

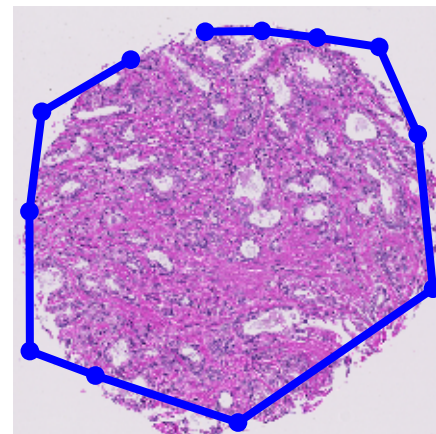
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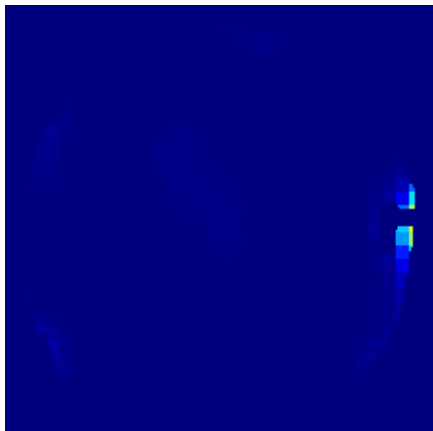
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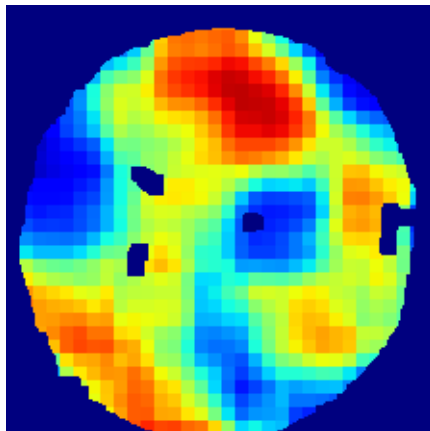
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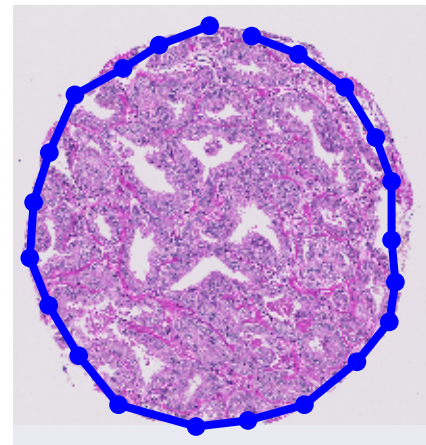
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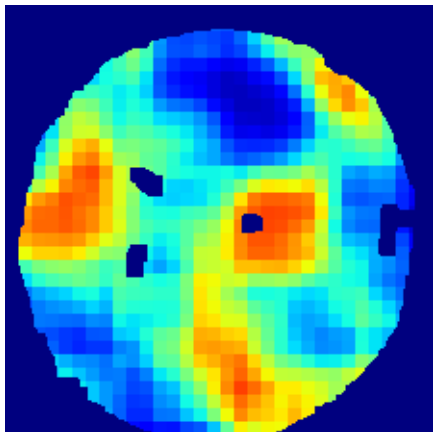
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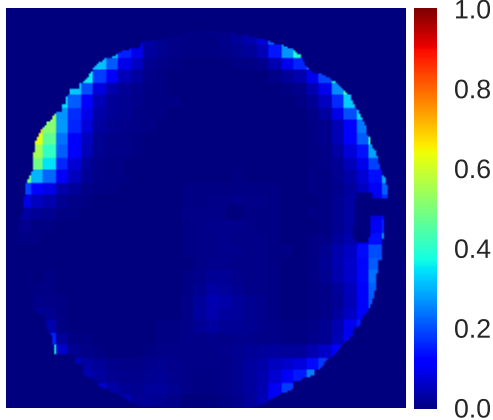
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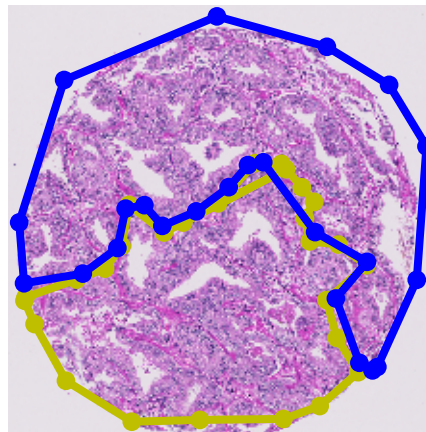
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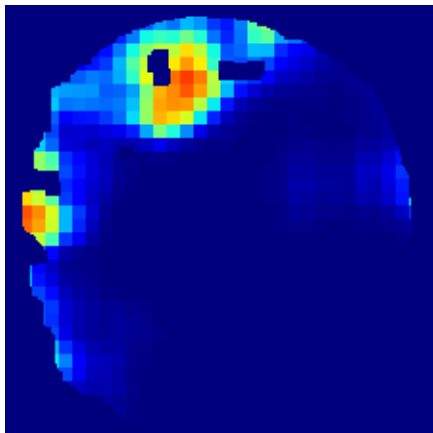
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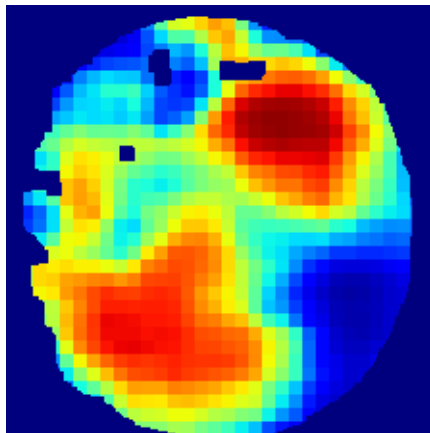
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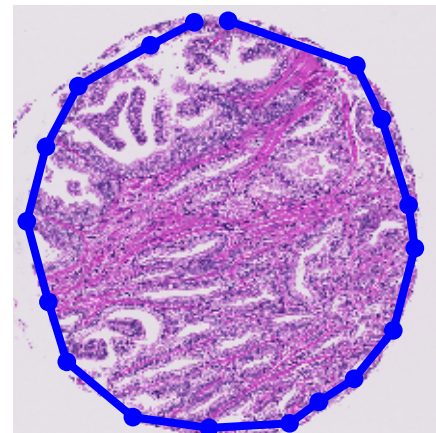
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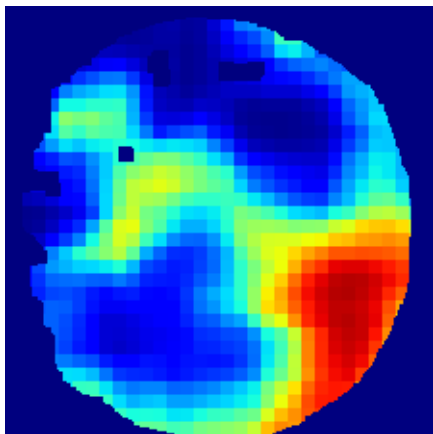
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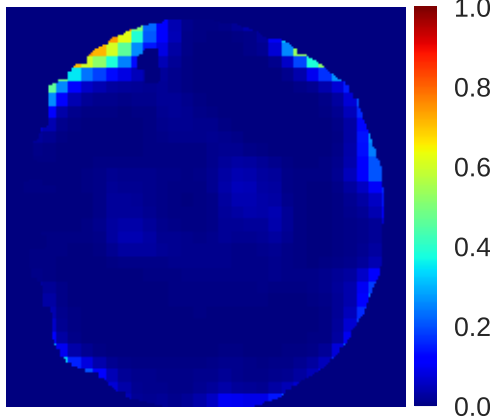
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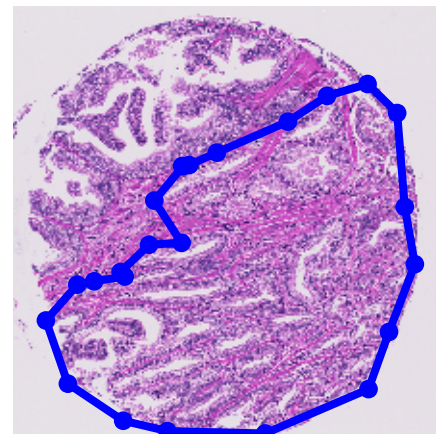
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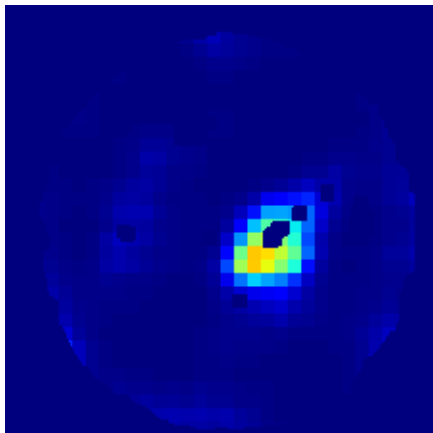
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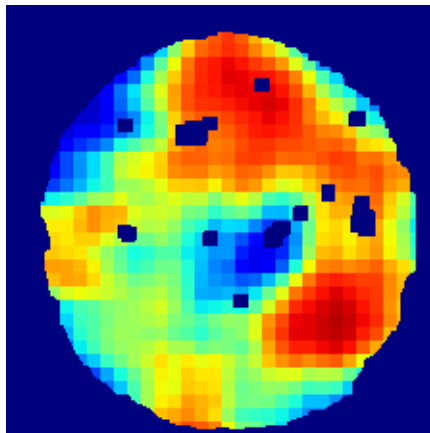
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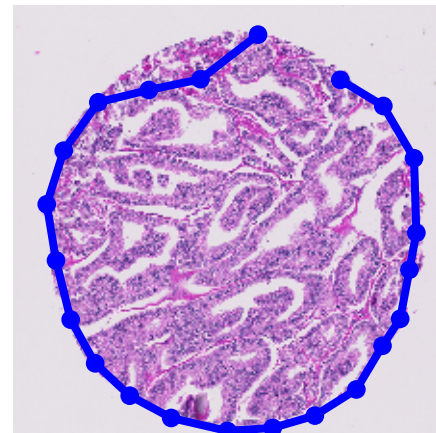
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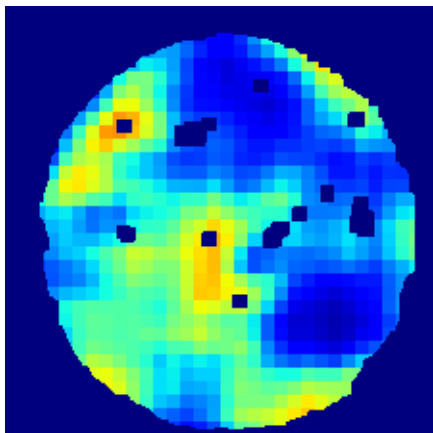
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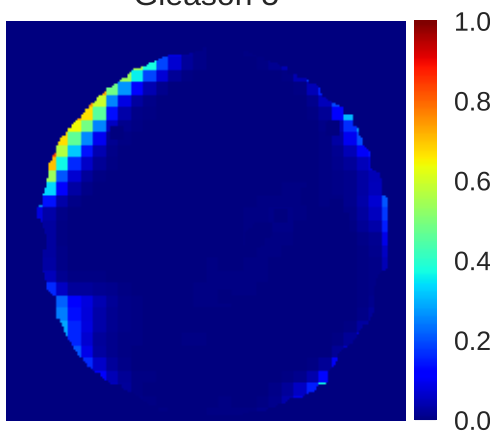
Pathologist 1



Gleason 4



Gleason 5



1.0

0.8

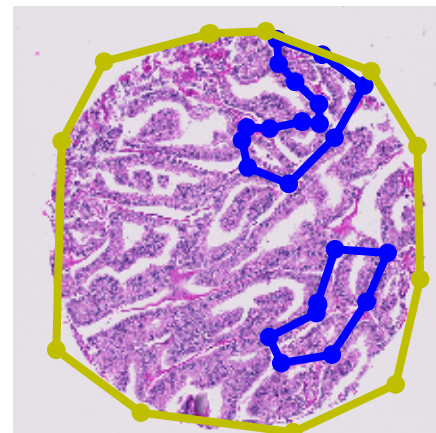
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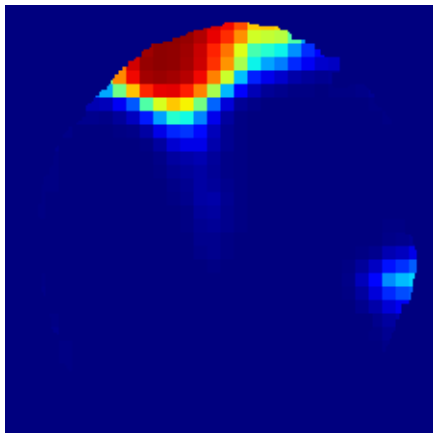
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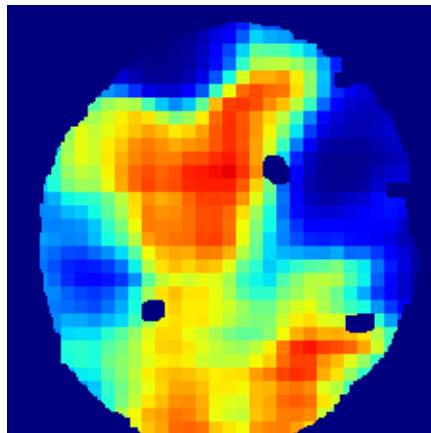
Pathologist 2



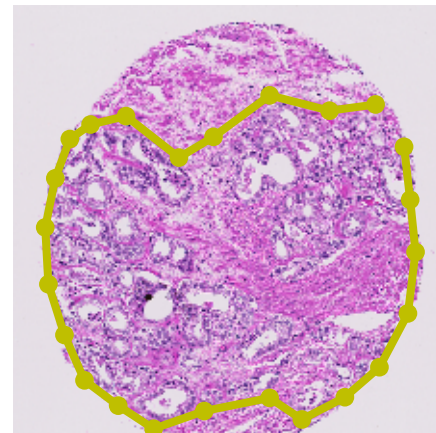
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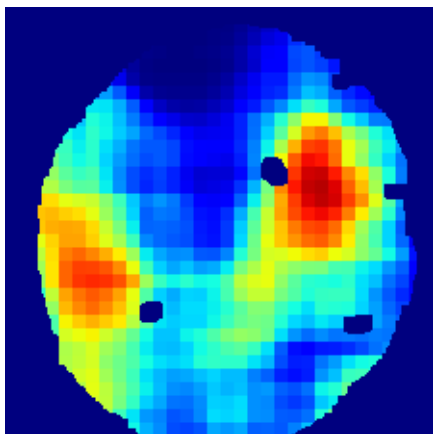
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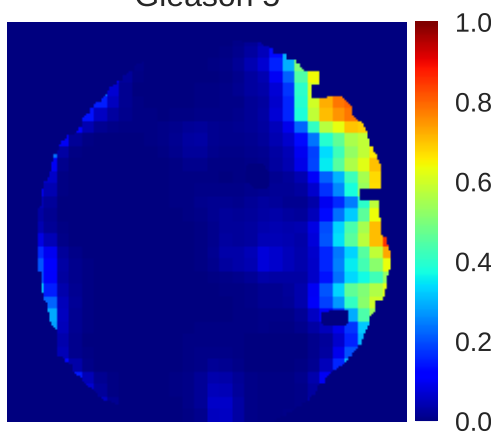
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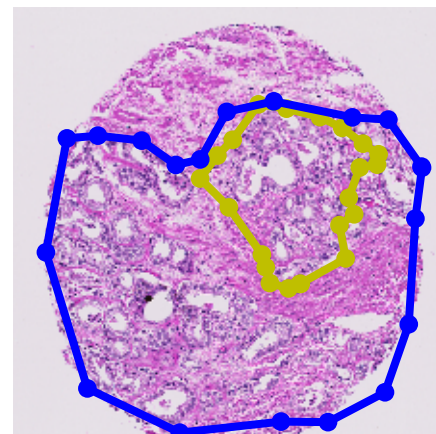
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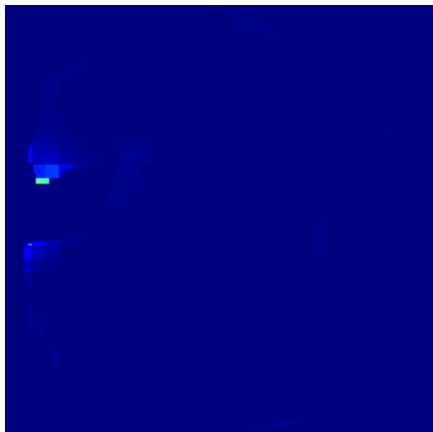
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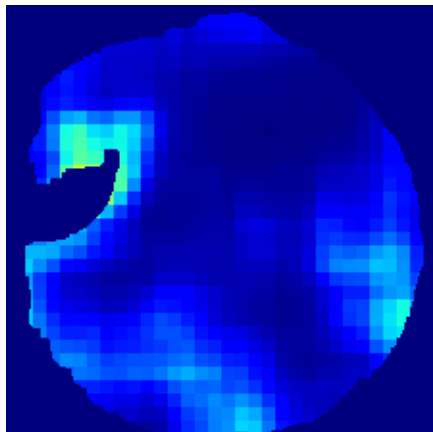
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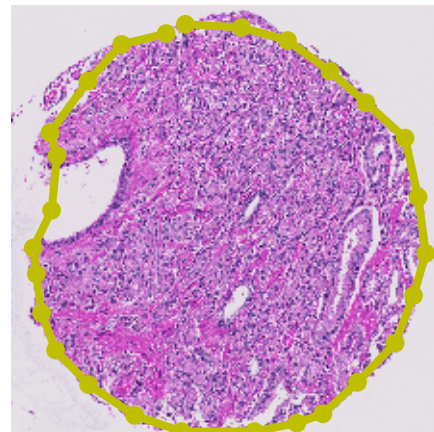
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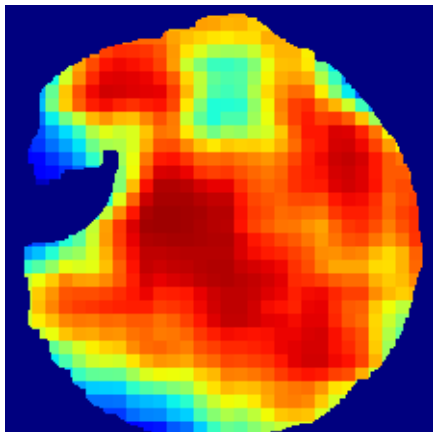
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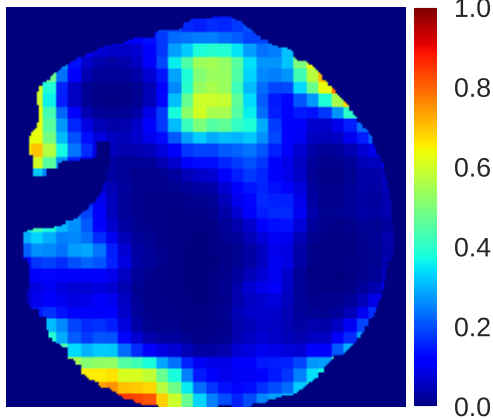
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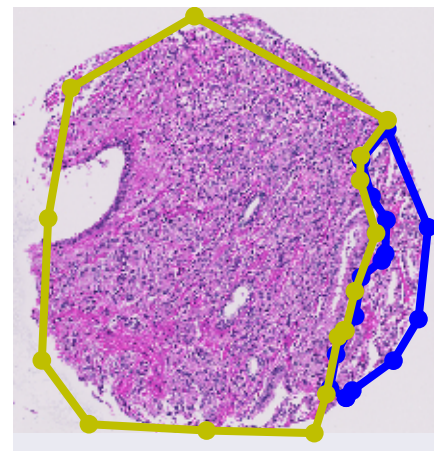
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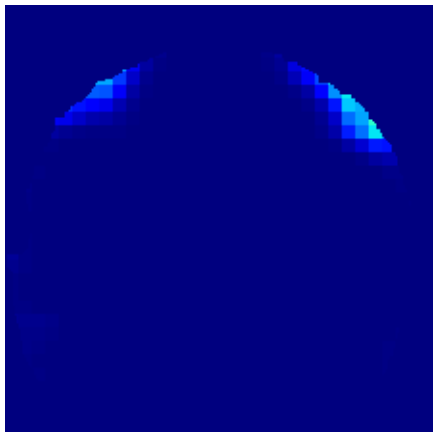
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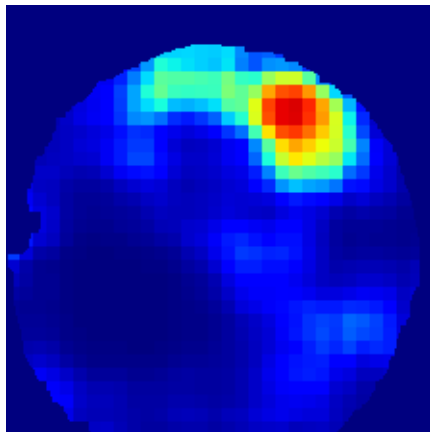
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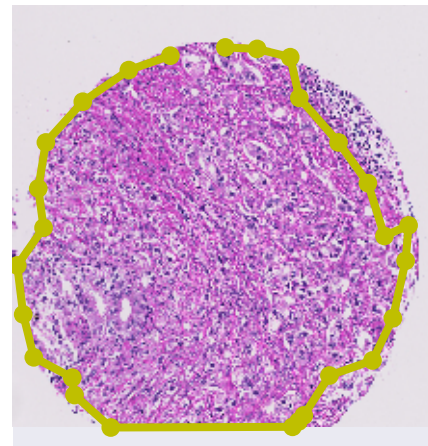
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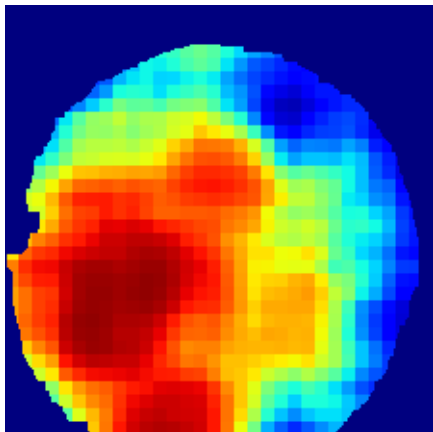
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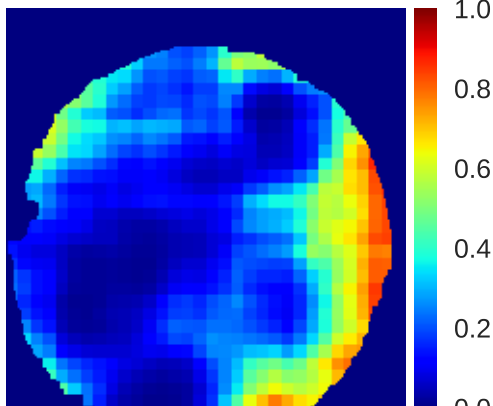
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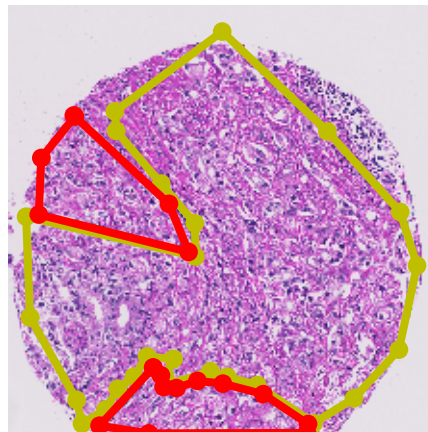
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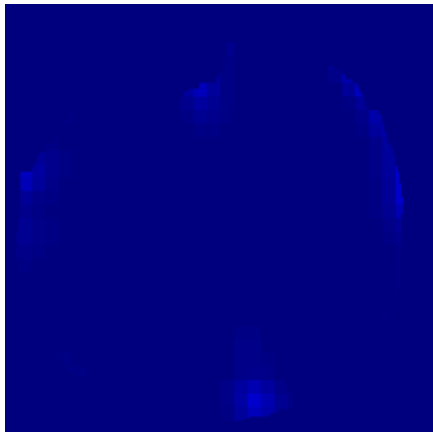
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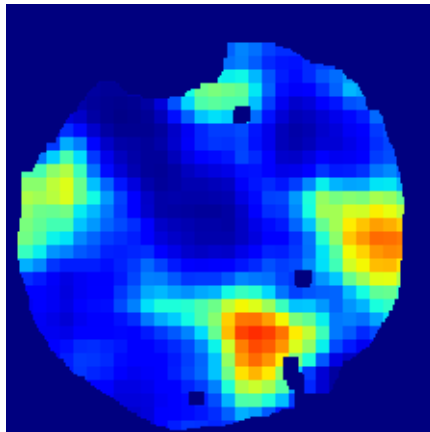
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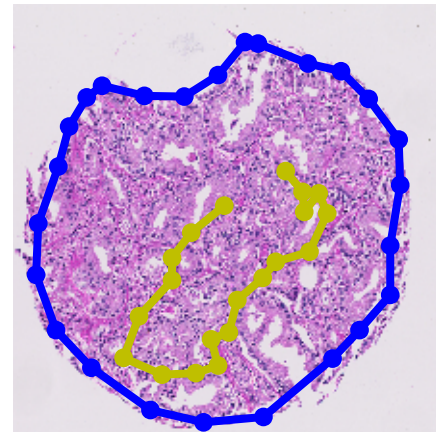
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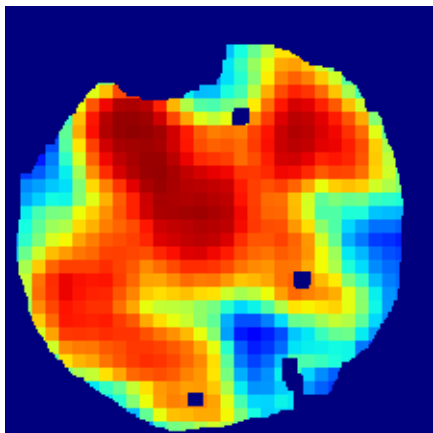
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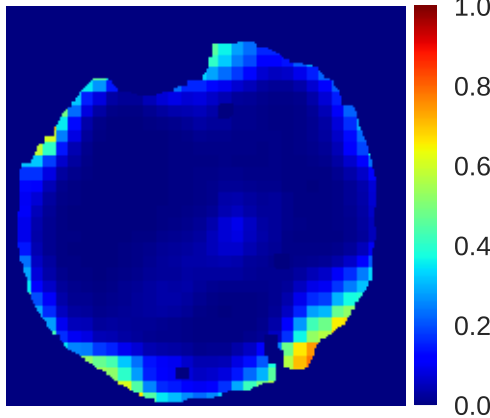
Pathologist 1



Gleason 4



Gleason 5



1.0

0.8

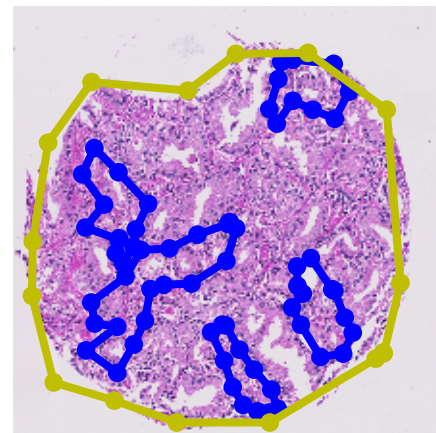
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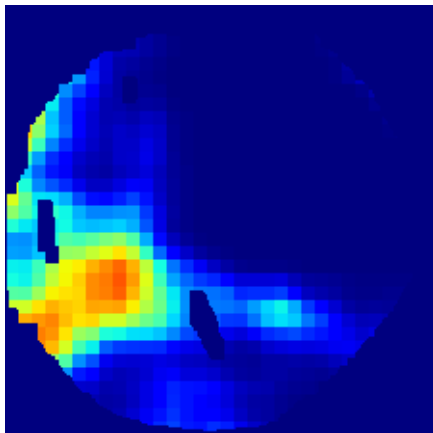
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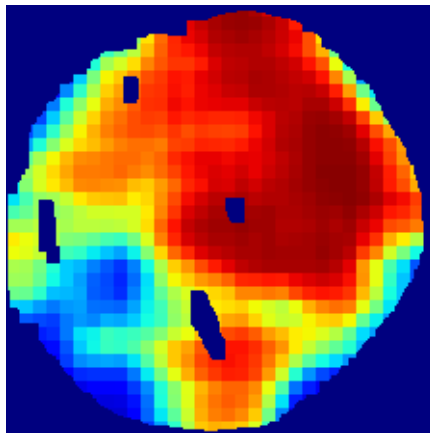
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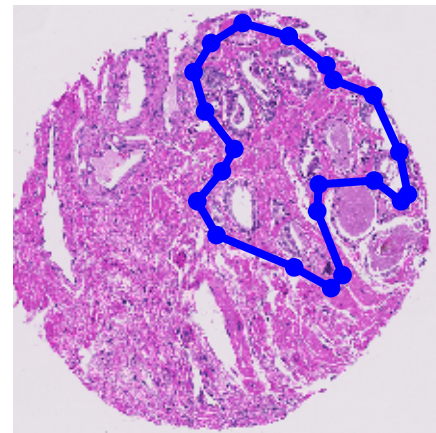
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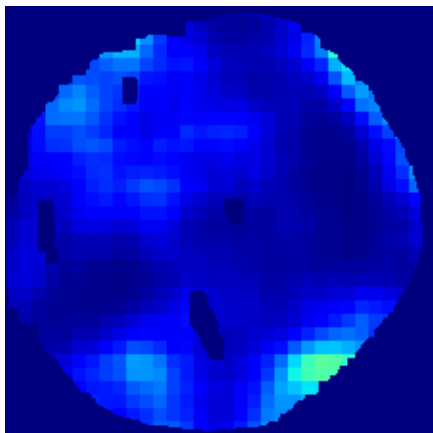
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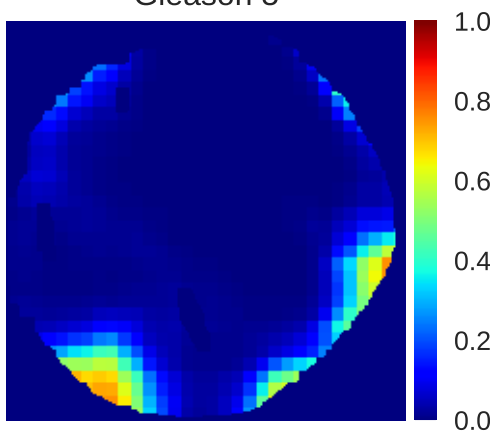
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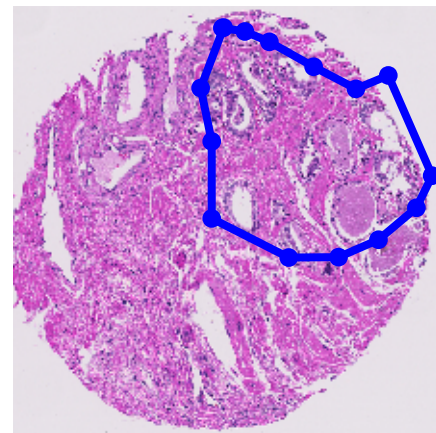
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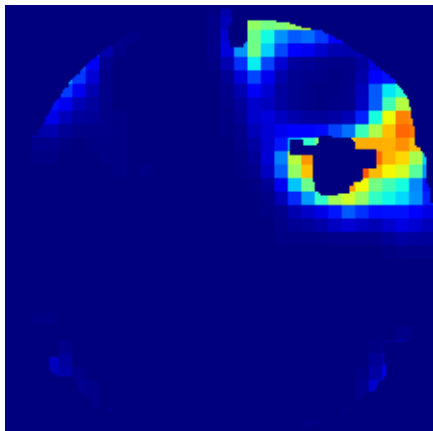
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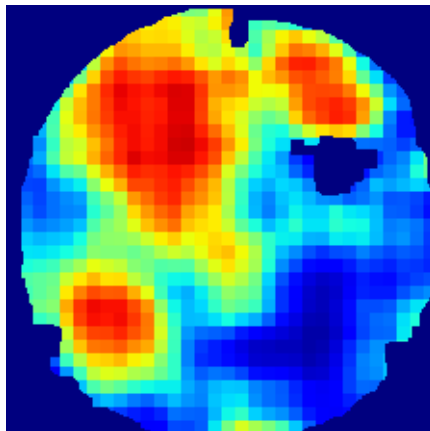
Pathologist 2



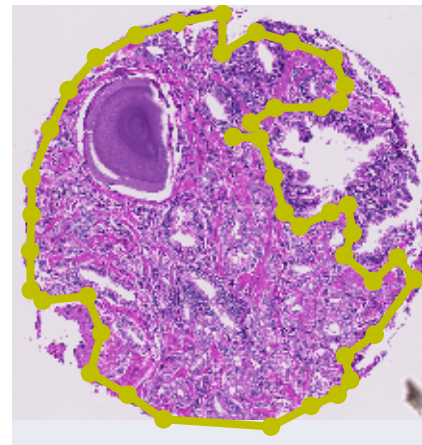
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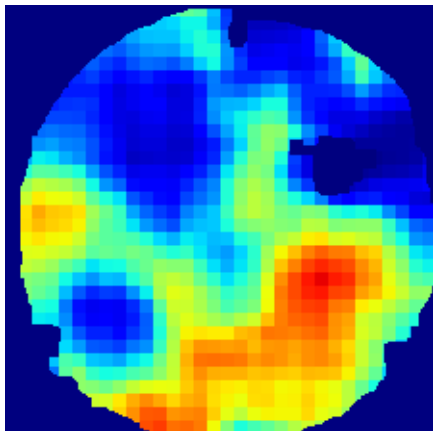
Gleason 3



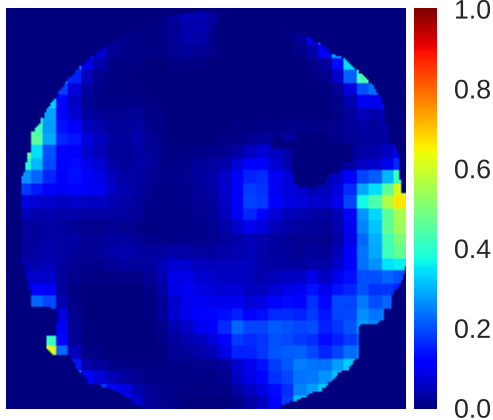
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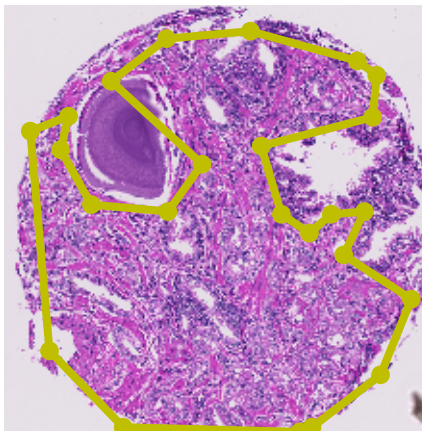
Gleason 4



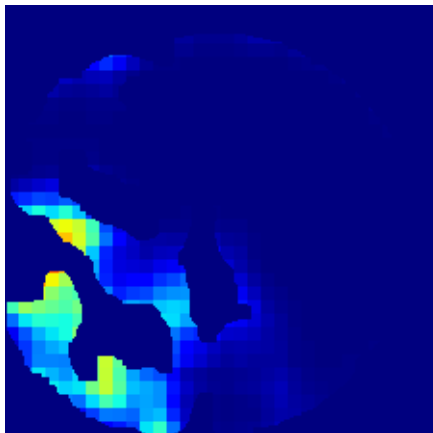
Gleason 5



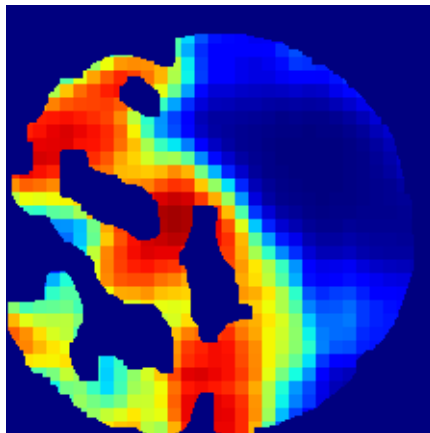
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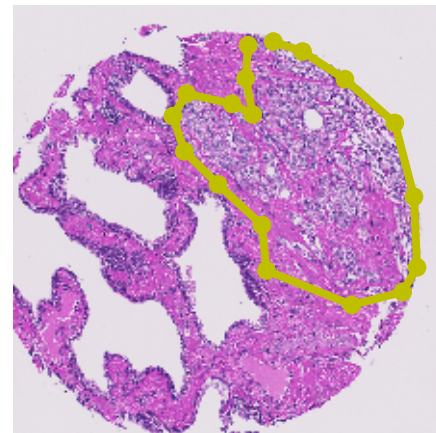
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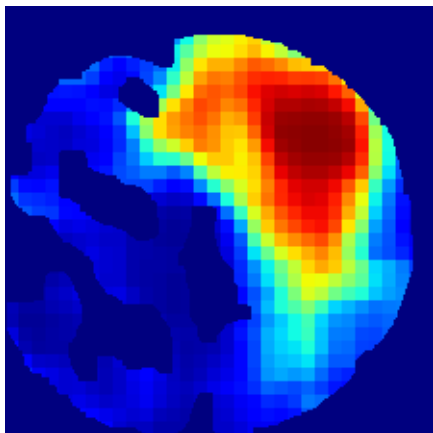
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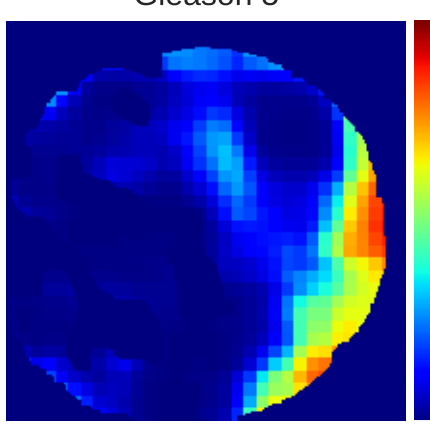
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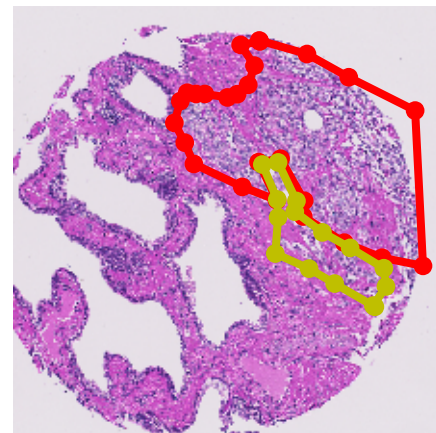
Gleason 4



Gleason 5



Pathologist 2



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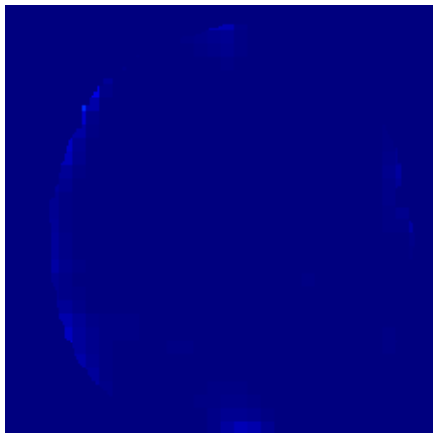
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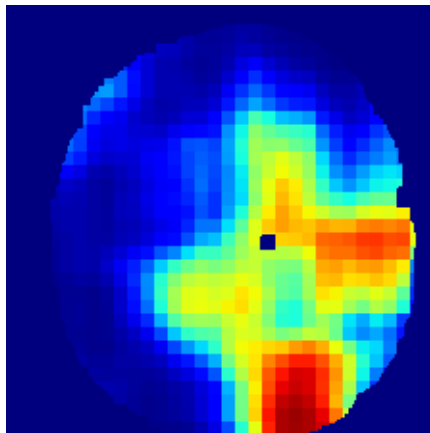
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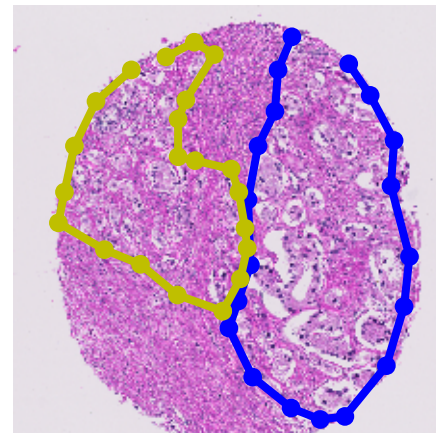
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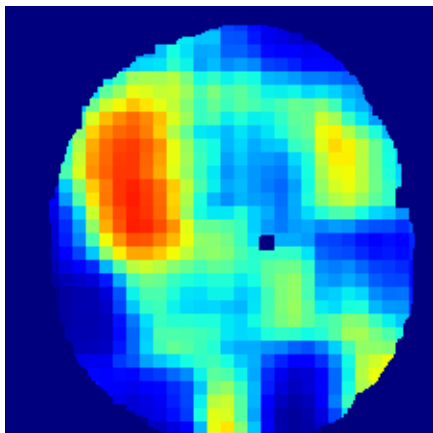
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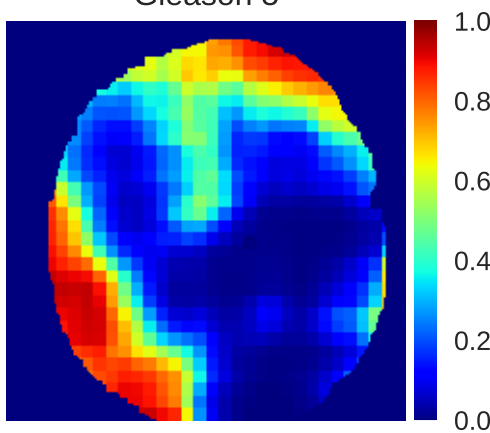
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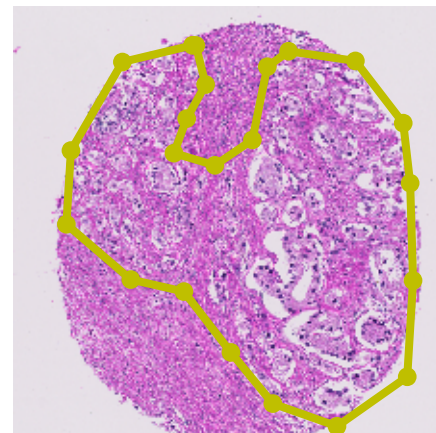
Gleason 4



Gleason 5



Pathologist 2



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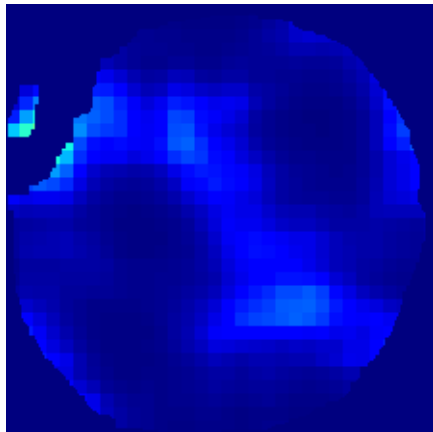
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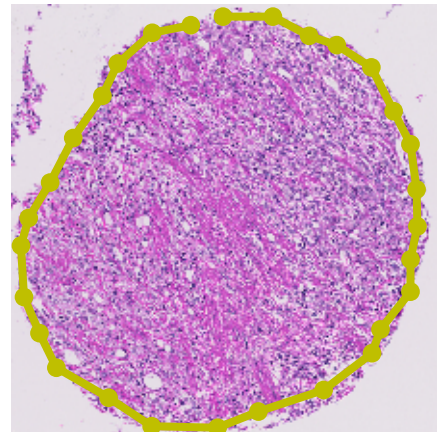
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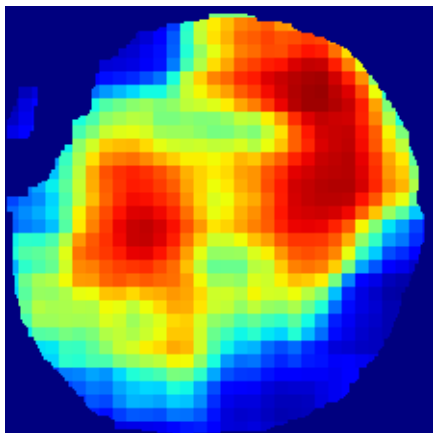
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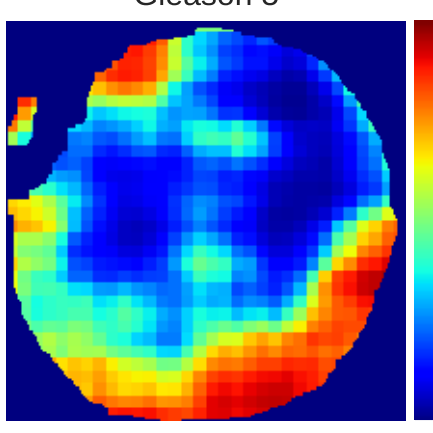
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Gleason 4



Gleason 5



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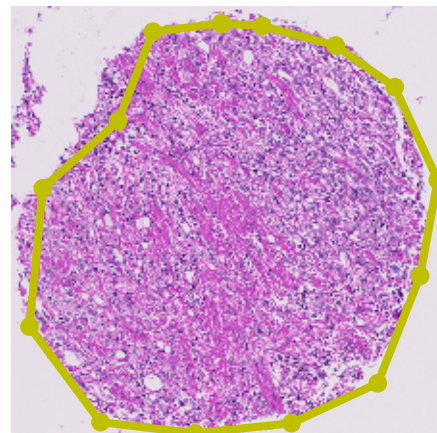
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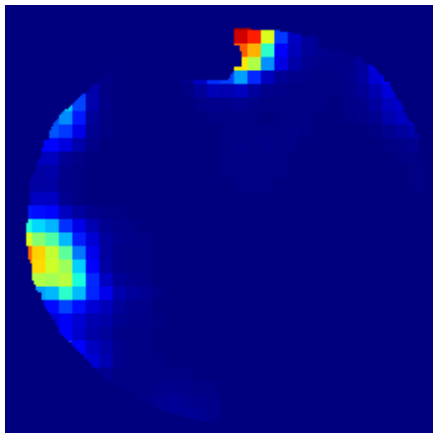
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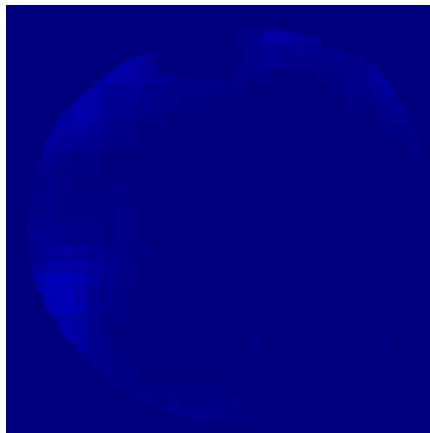
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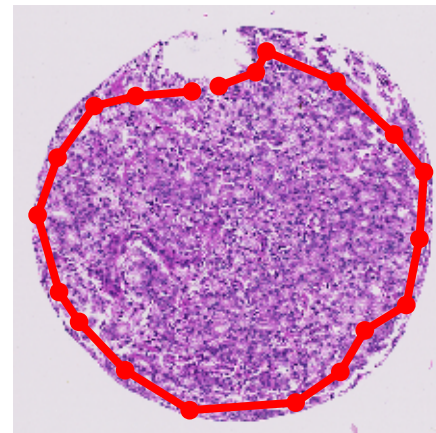
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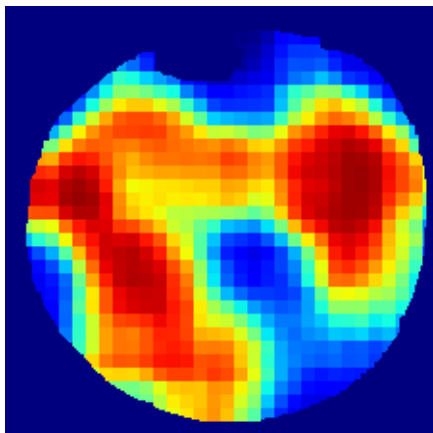
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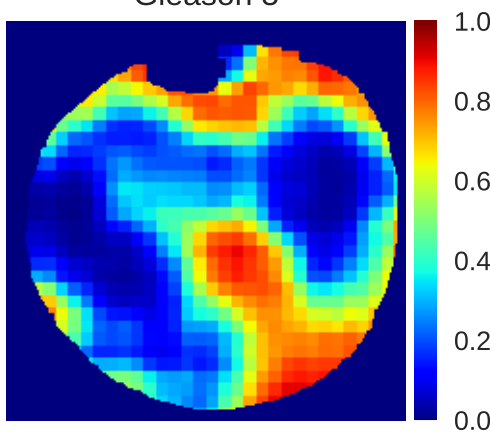
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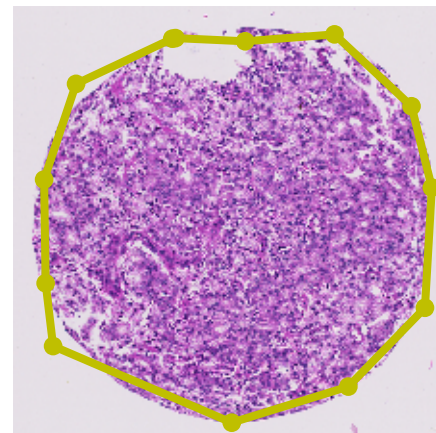
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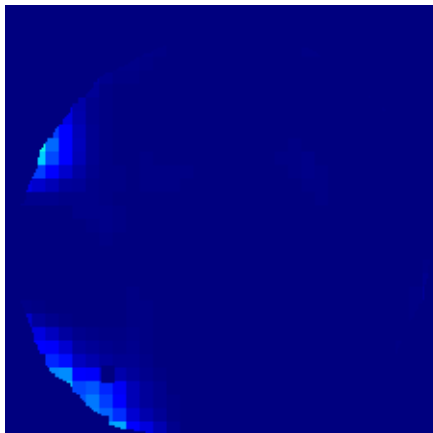
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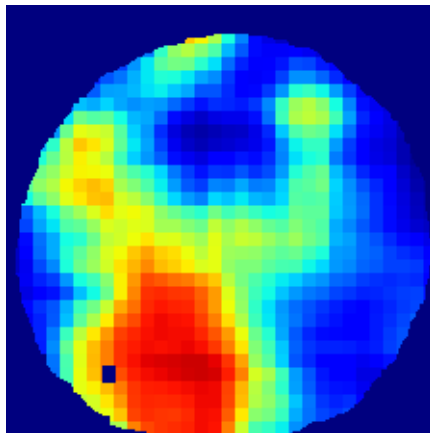
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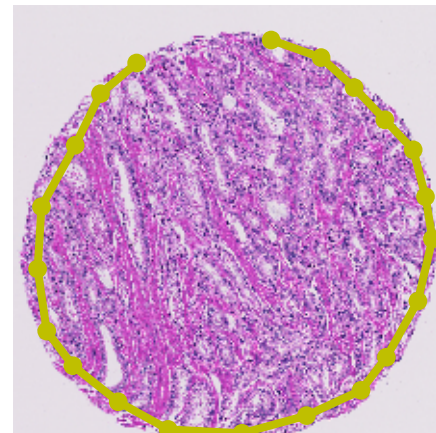
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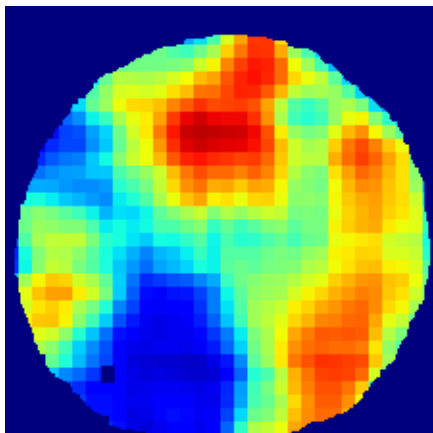
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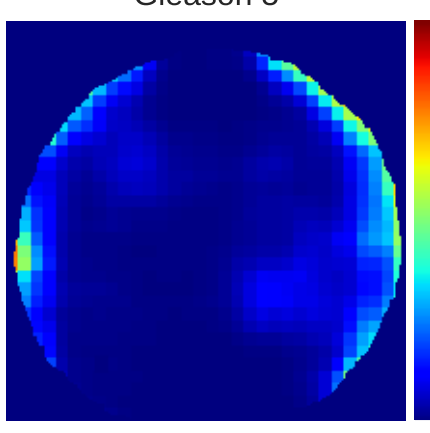
Pathologist 1



Gleason 4



Gleason 5



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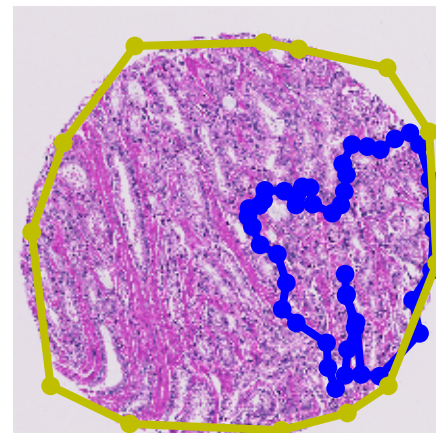
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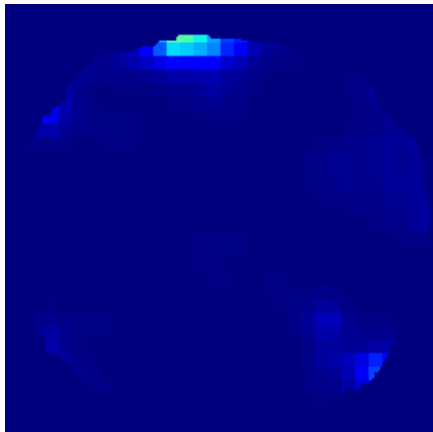
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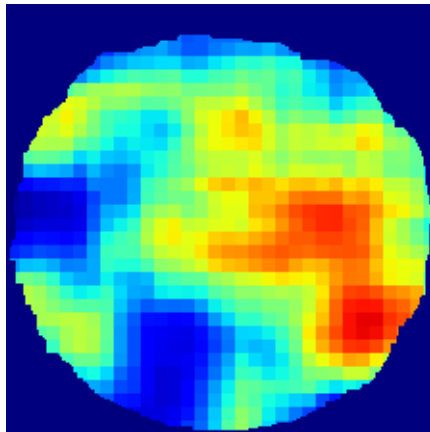
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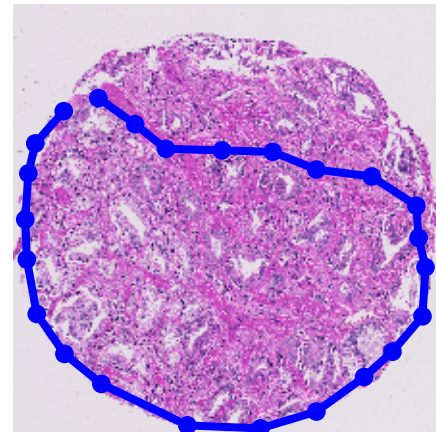
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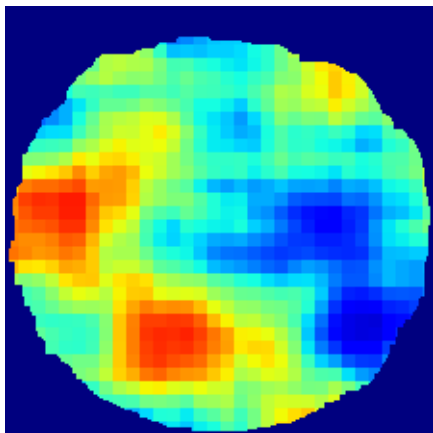
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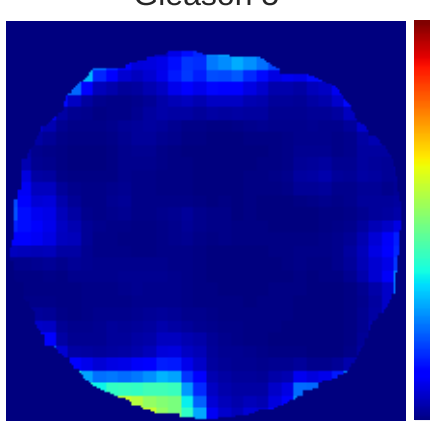
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Gleason 4



Gleason 5



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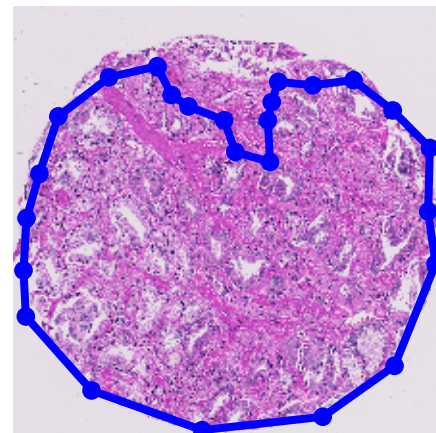
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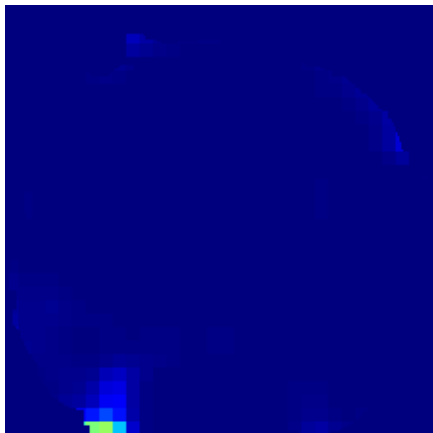
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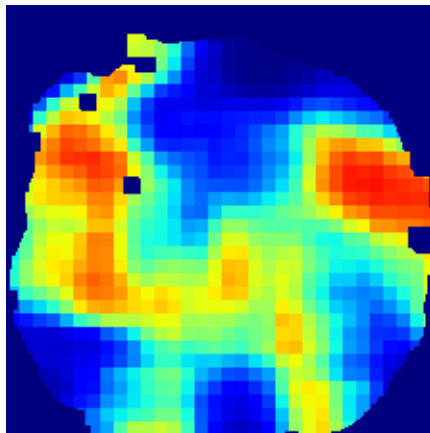
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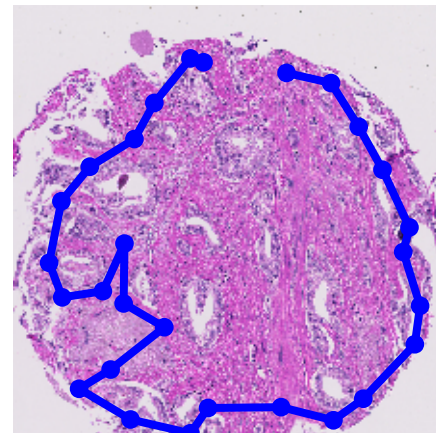
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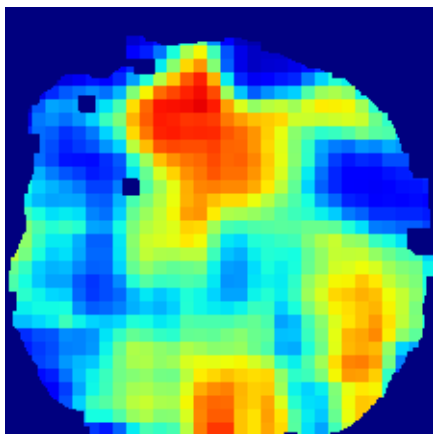
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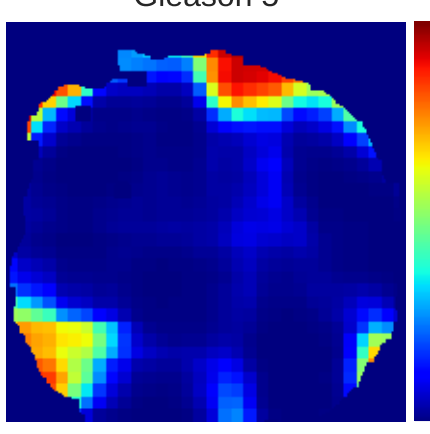
Pathologist 1



Gleason 4



Gleason 5



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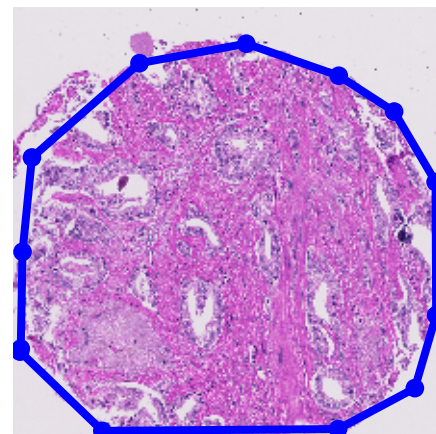
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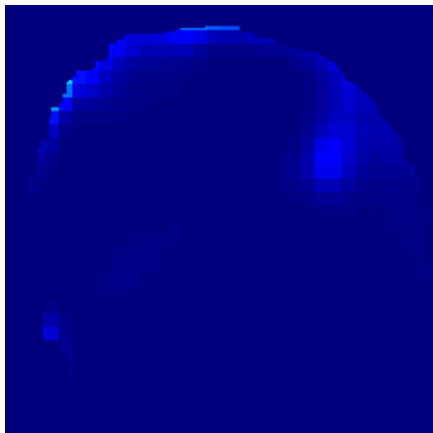
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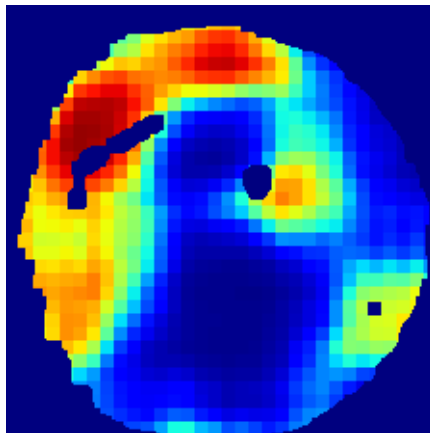
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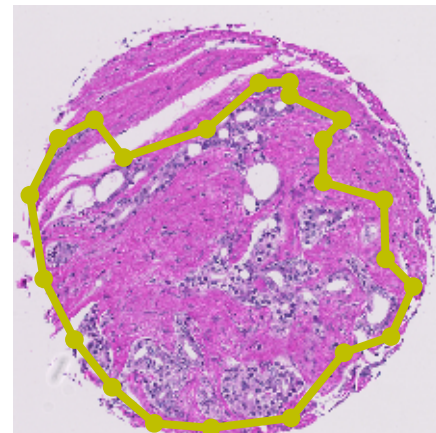
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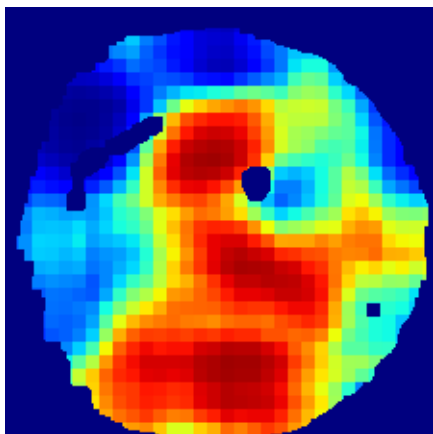
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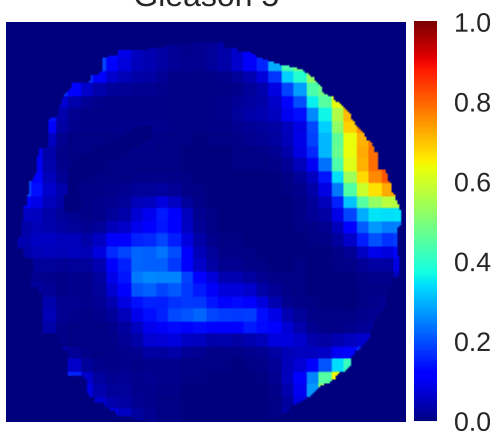
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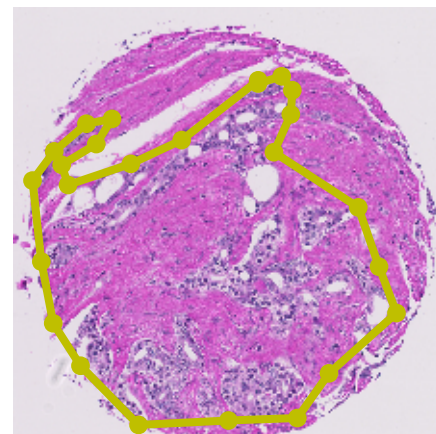
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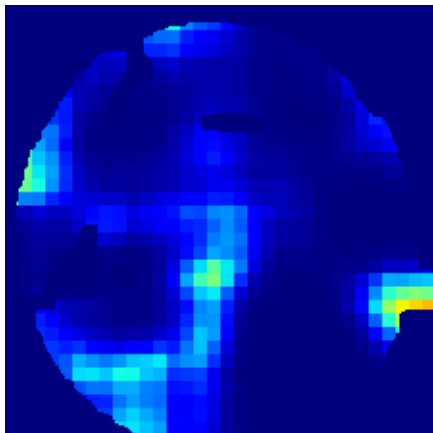
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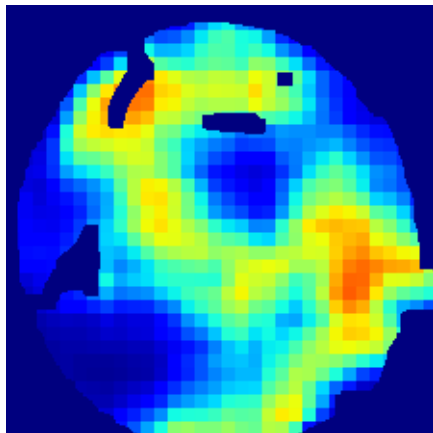
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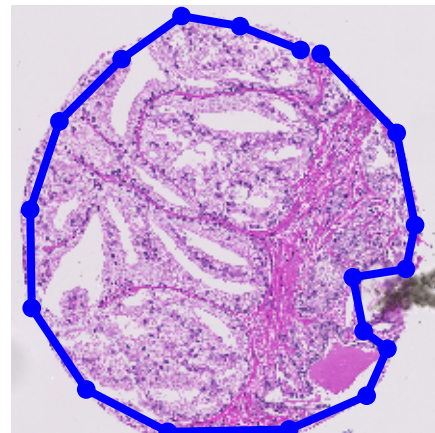
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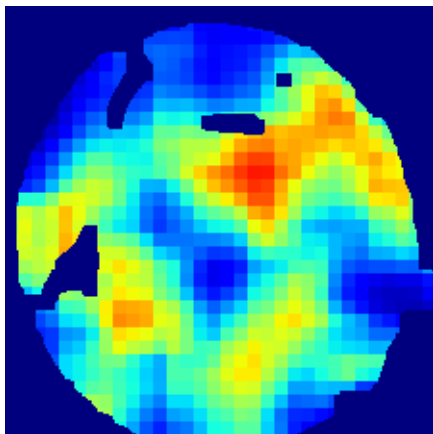
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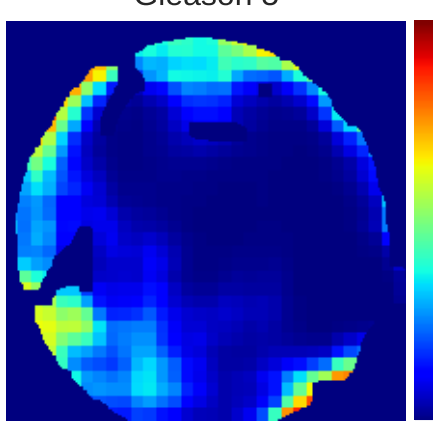
Pathologist 1



Gleason 4



Gleason 5



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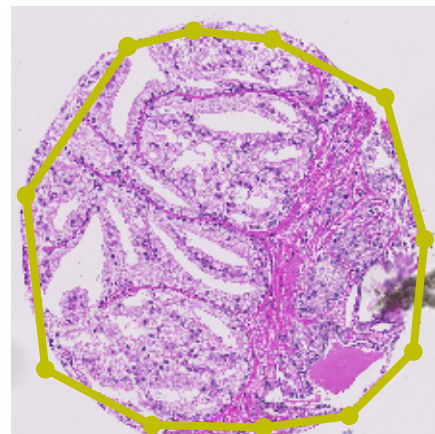
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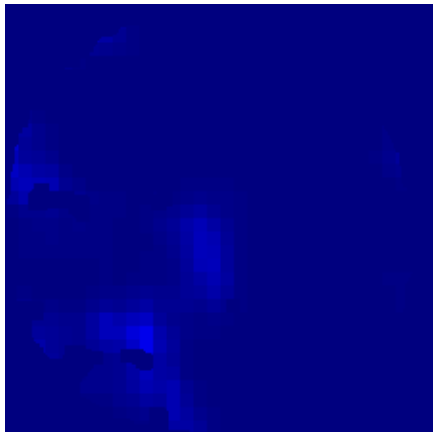
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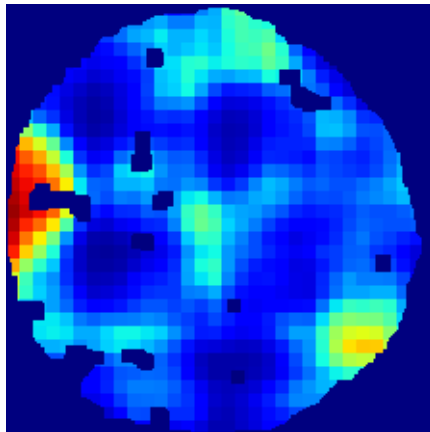
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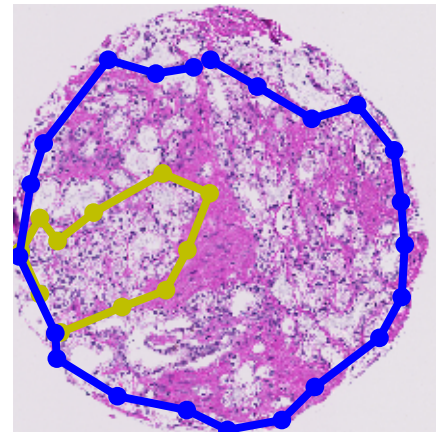
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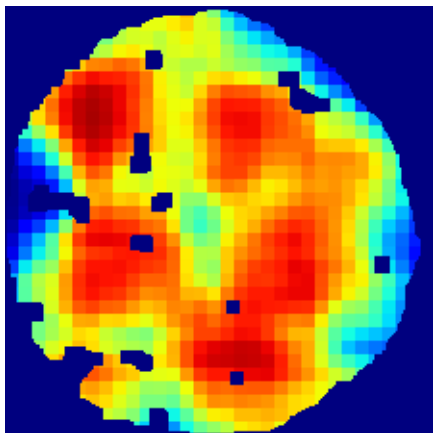
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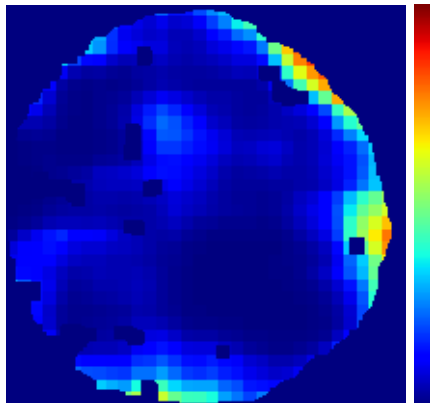
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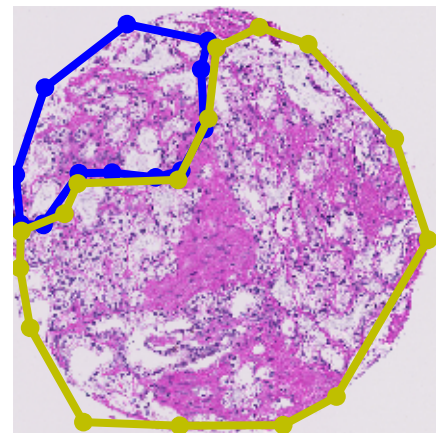
Gleason 4



Gleason 5



Pathologist 2



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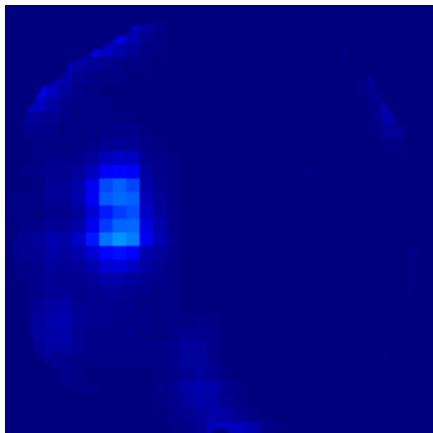
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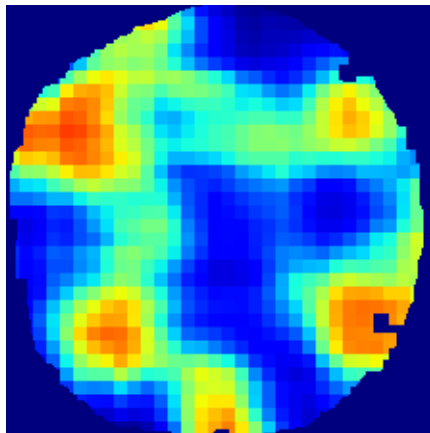
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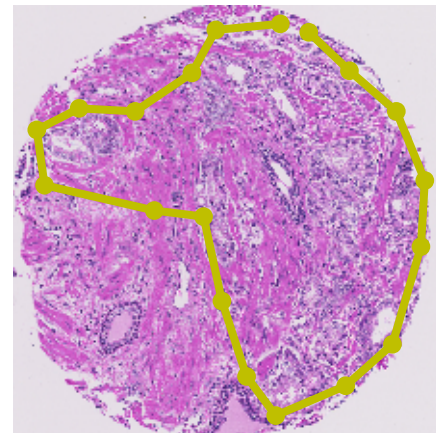
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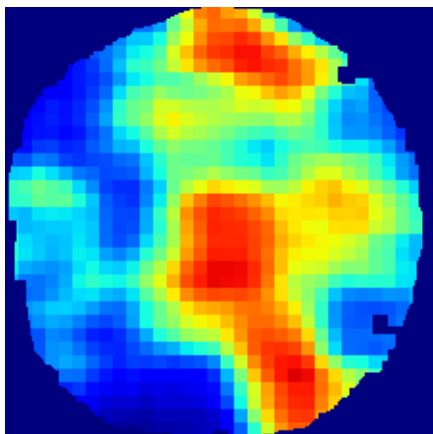
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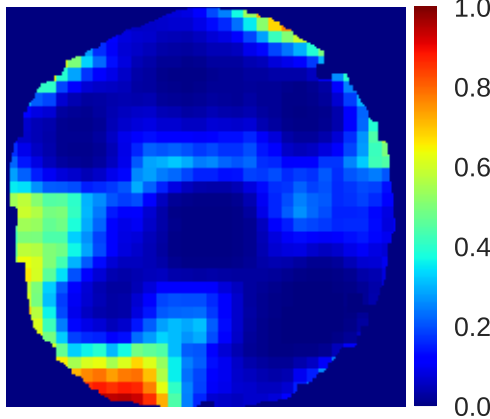
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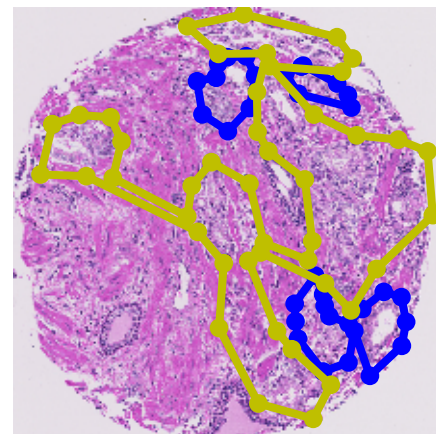
Gleason 4



Gleason 5



Pathologist 2



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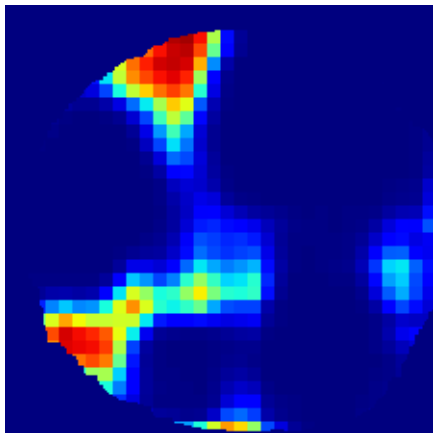
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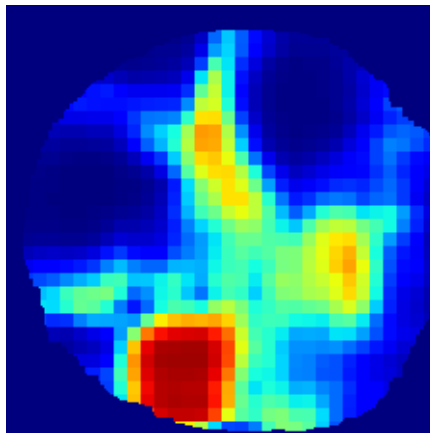
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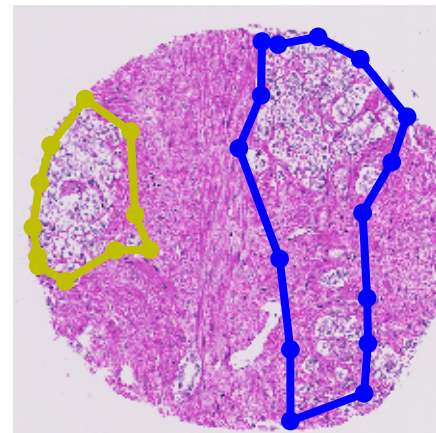
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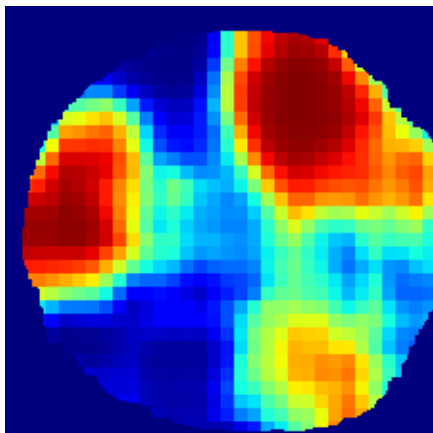
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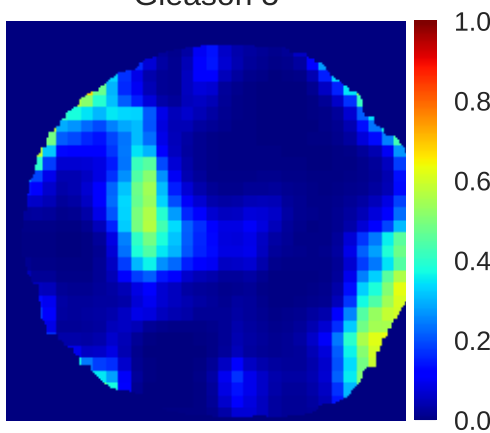
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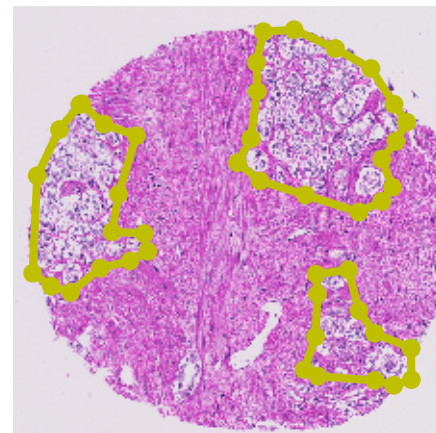
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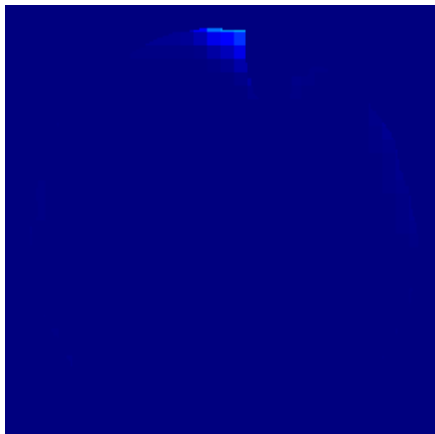
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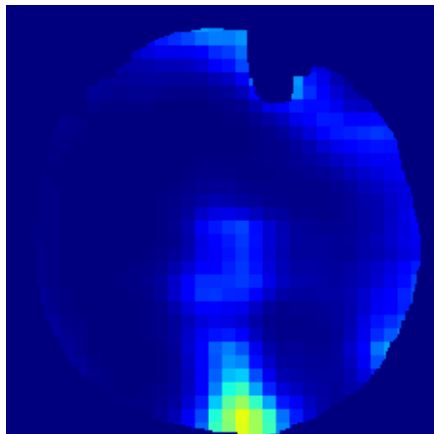
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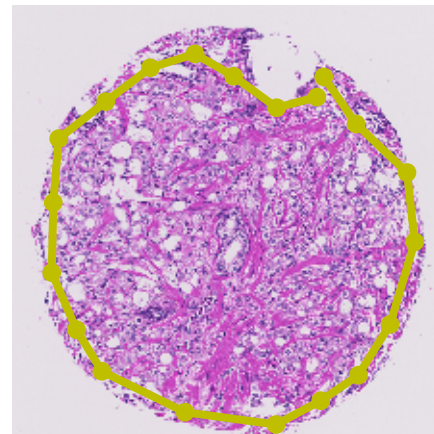
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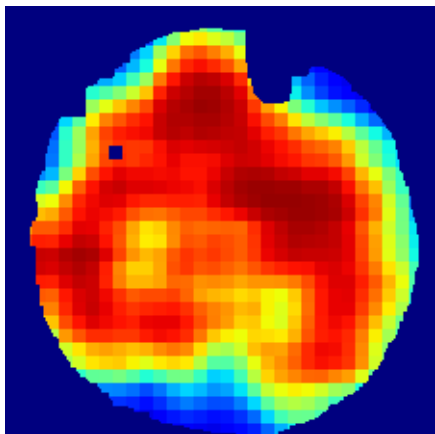
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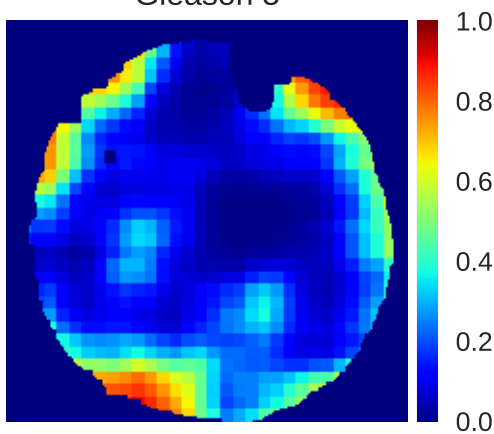
Pathologist 1



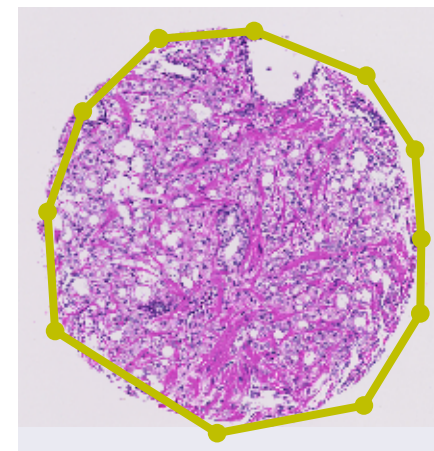
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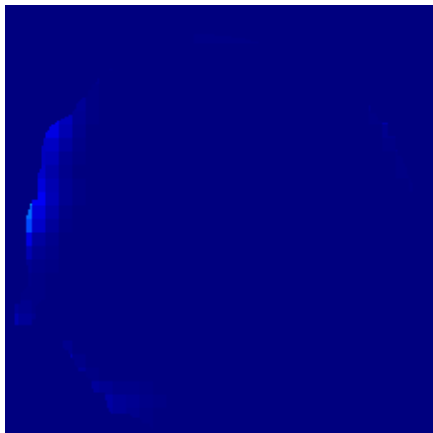
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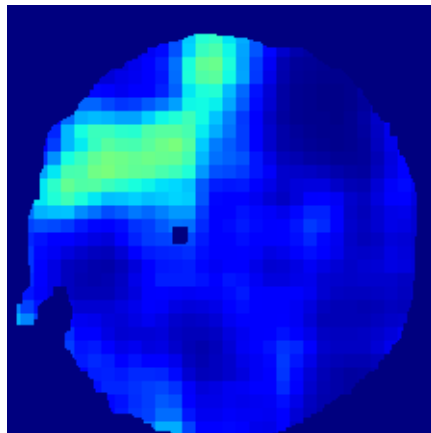
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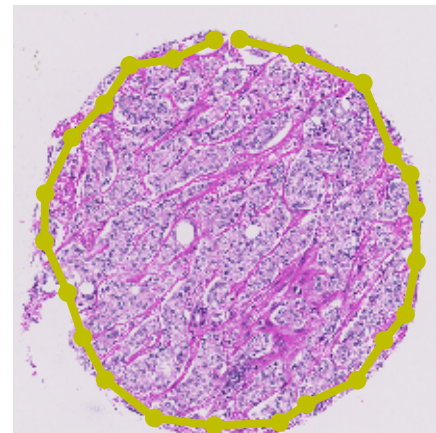
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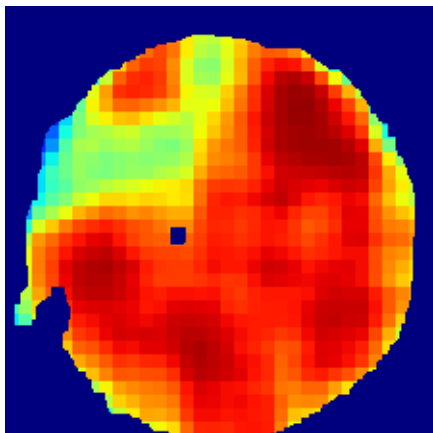
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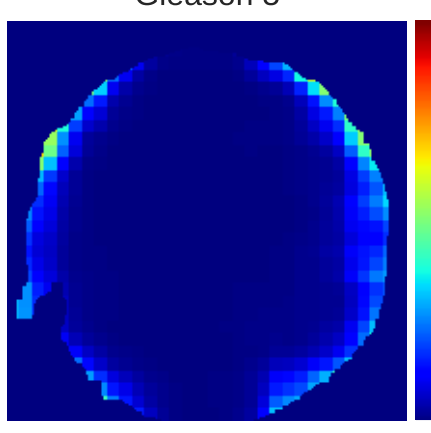
Pathologist 1



Gleason 4



Gleason 5



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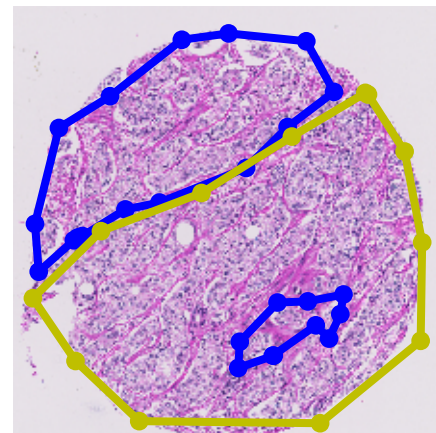
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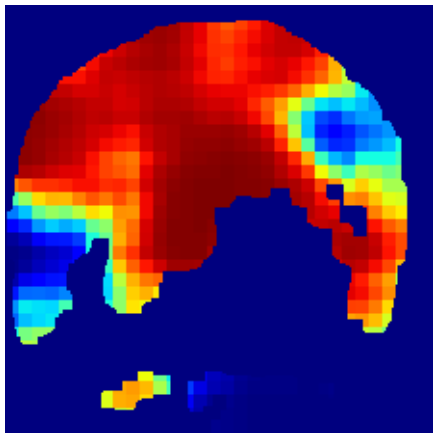
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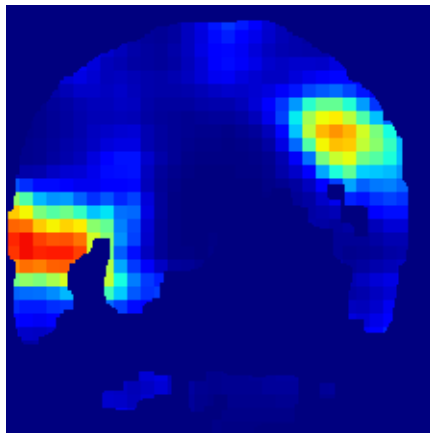
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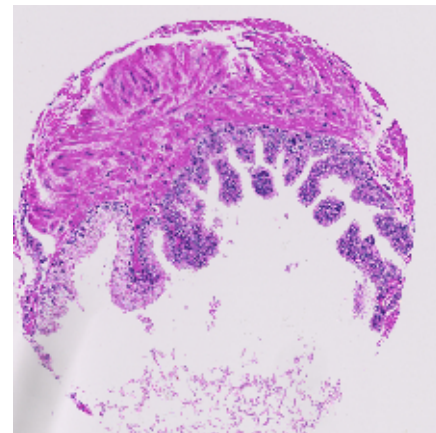
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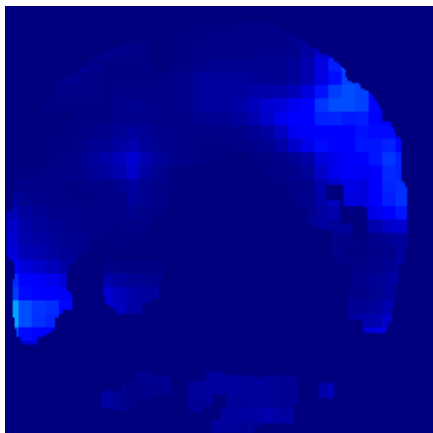
Gleason 3



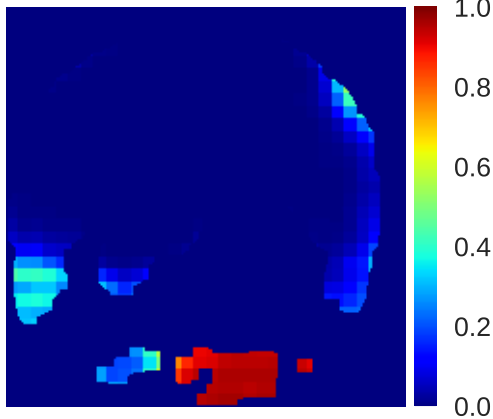
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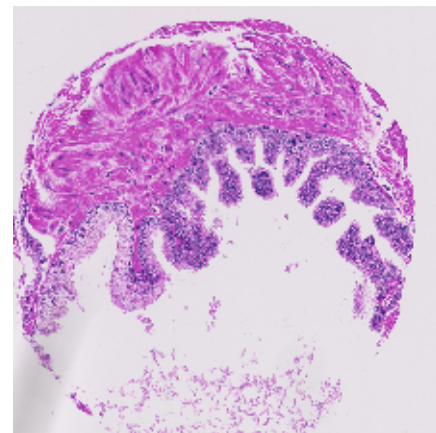
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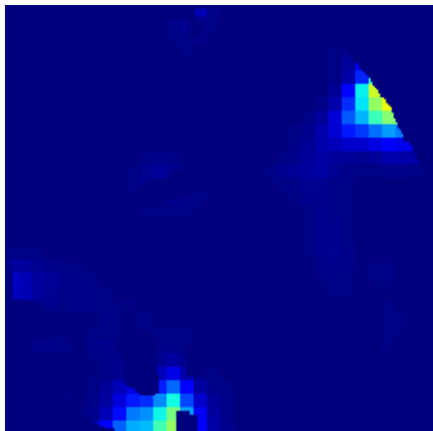
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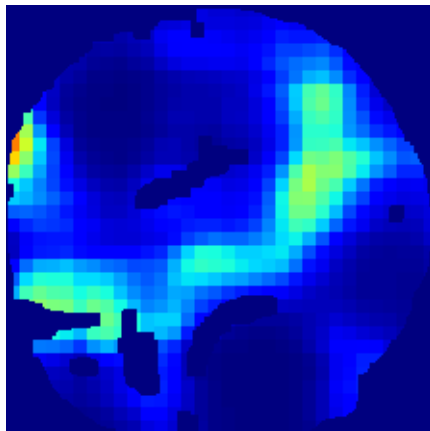
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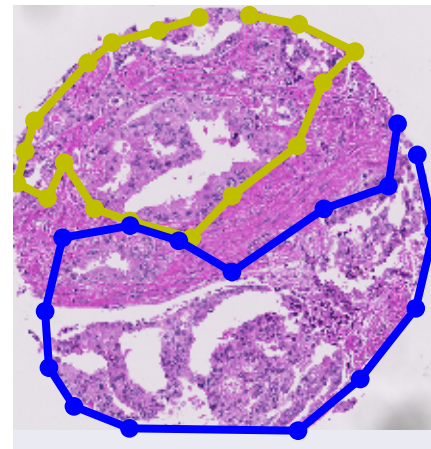
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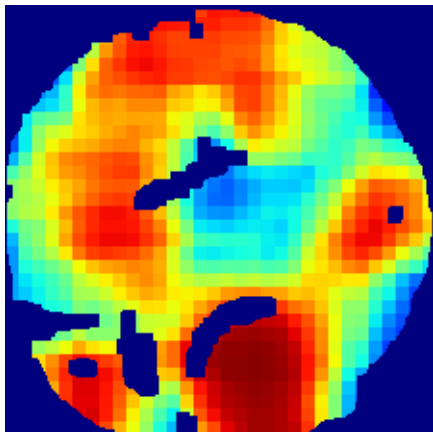
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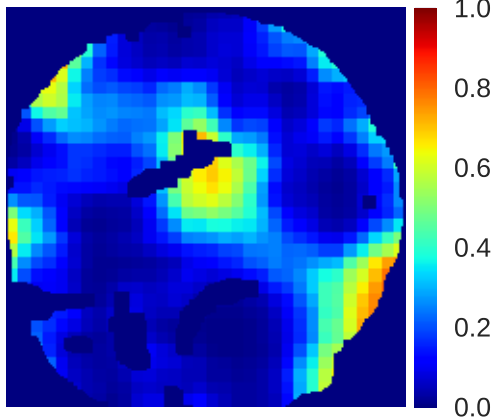
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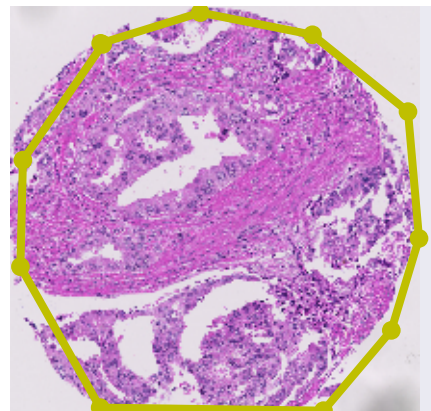
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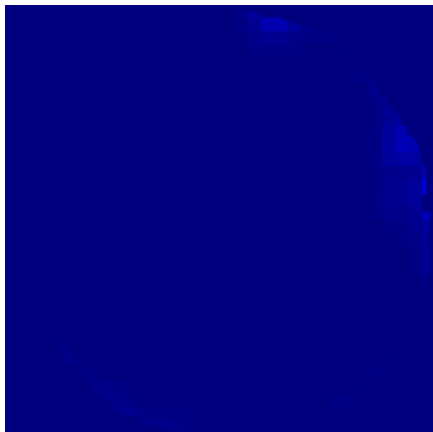
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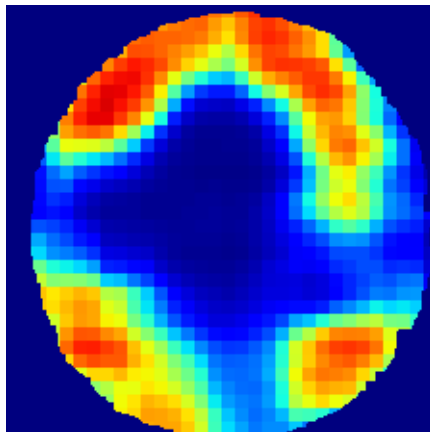
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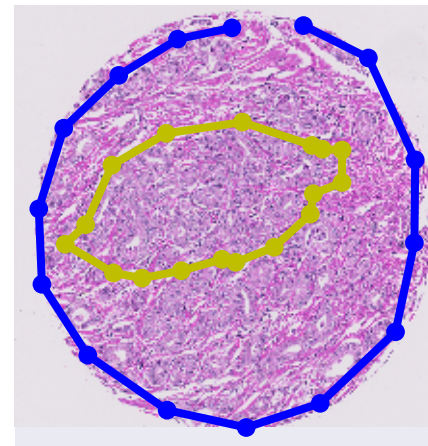
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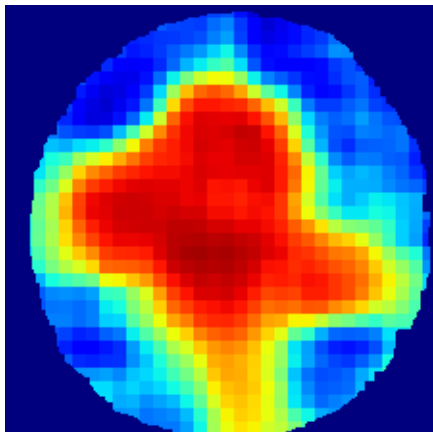
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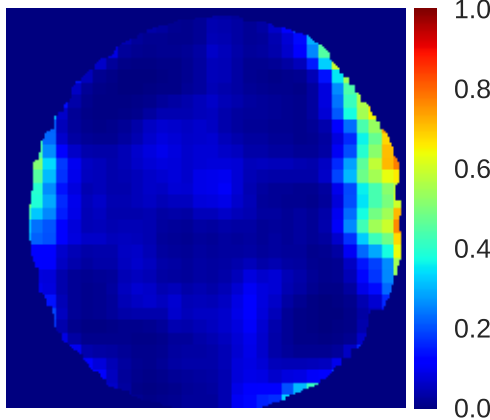
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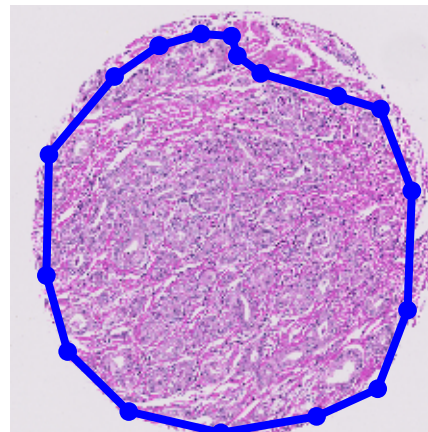
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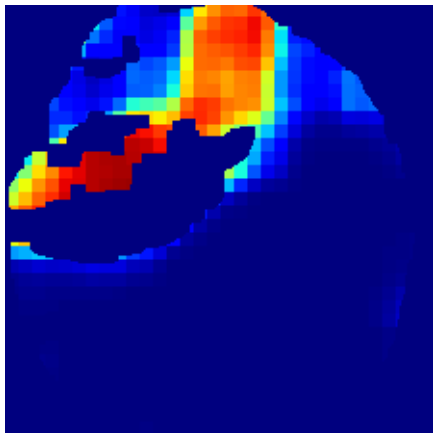
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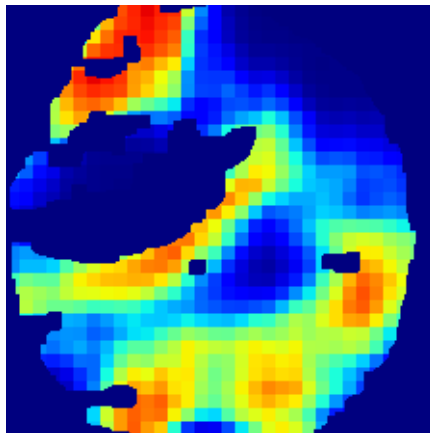
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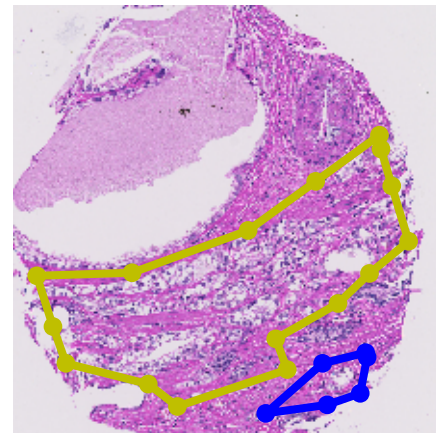
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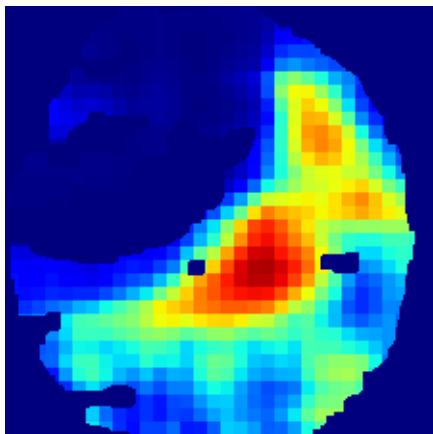
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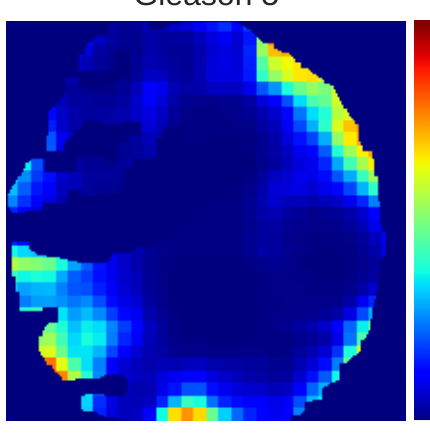
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Gleason 4



Gleason 5



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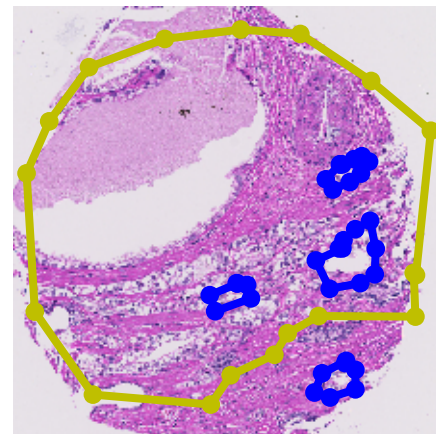
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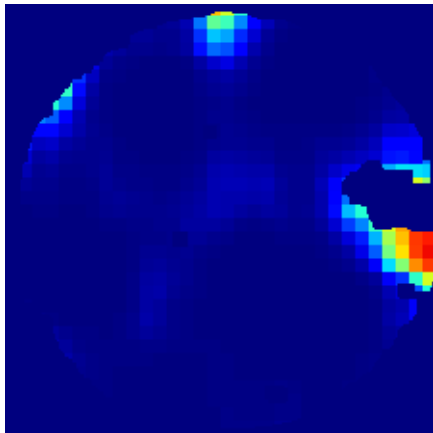
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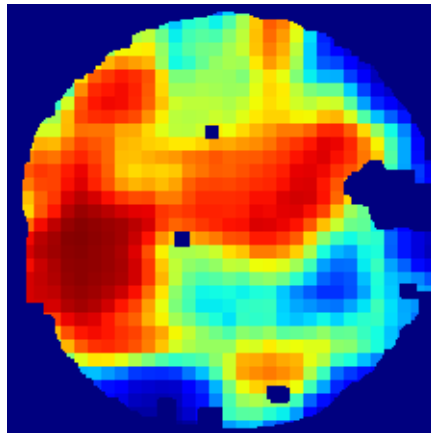
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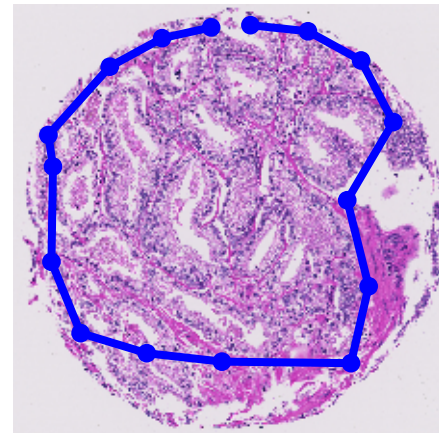
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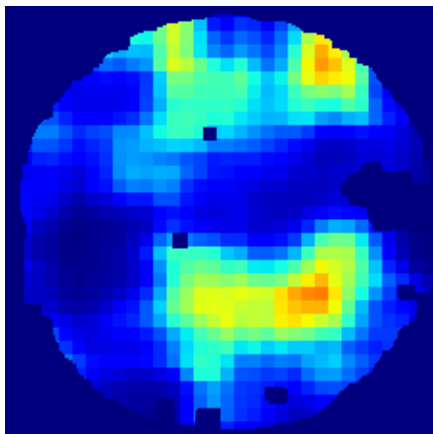
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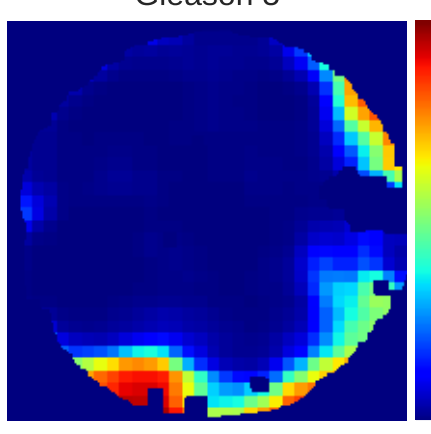
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Gleason 4



Gleason 5



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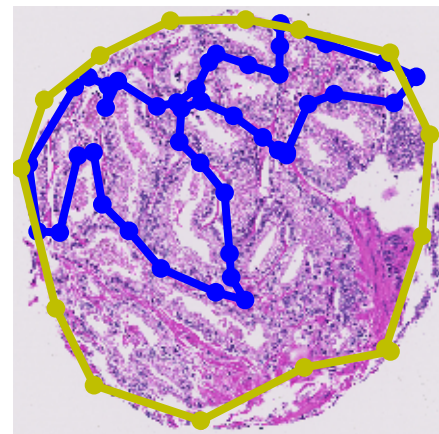
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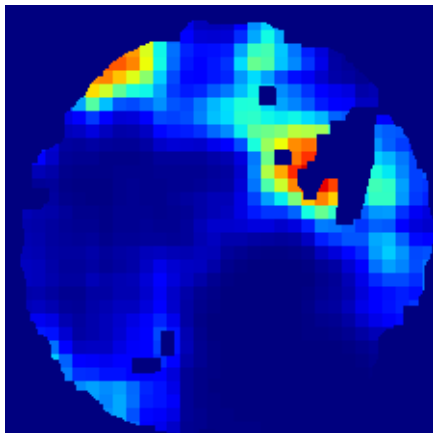
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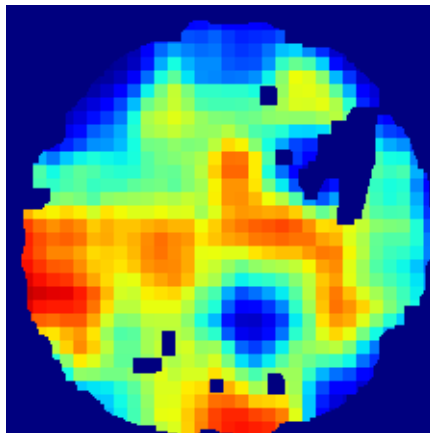
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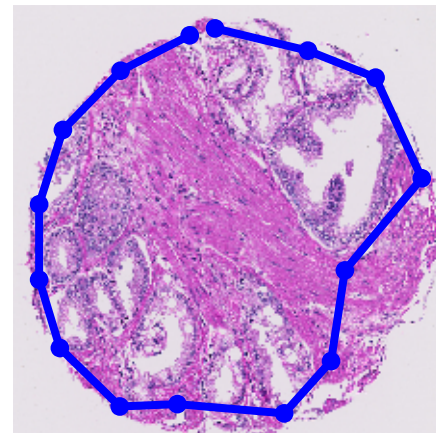
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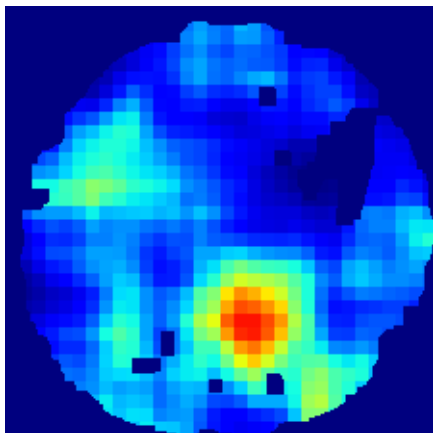
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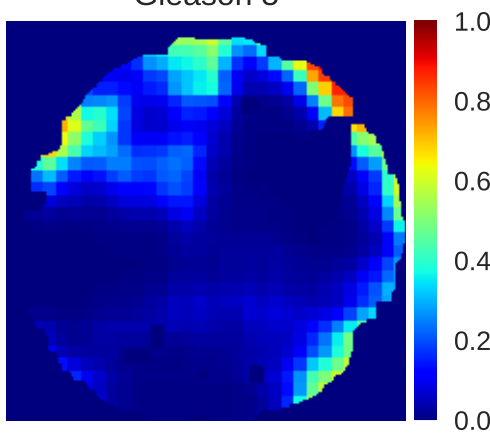
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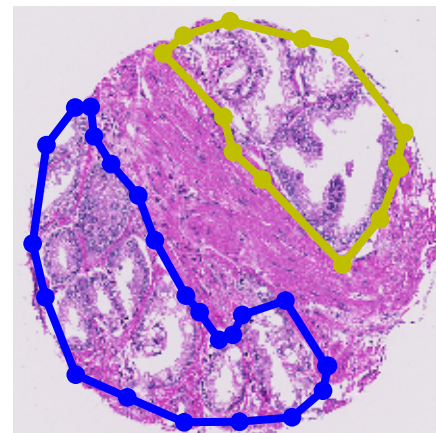
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Gleason 5



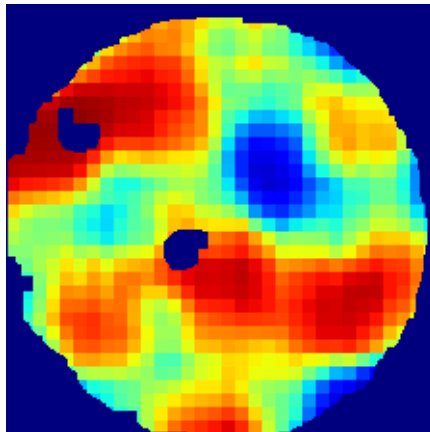
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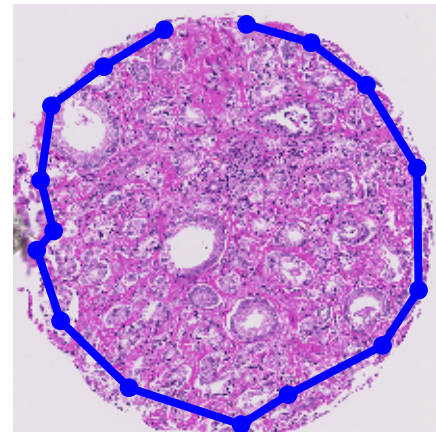
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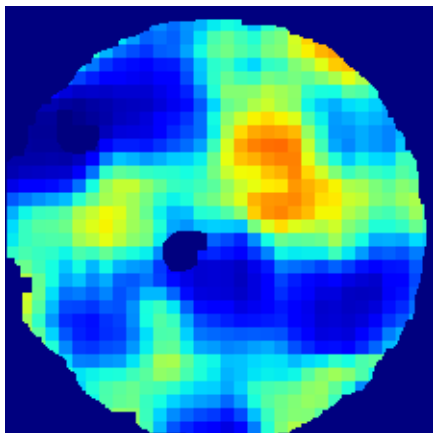
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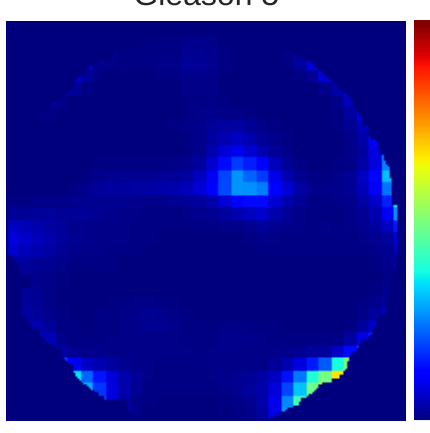
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Gleason 4



Gleason 5



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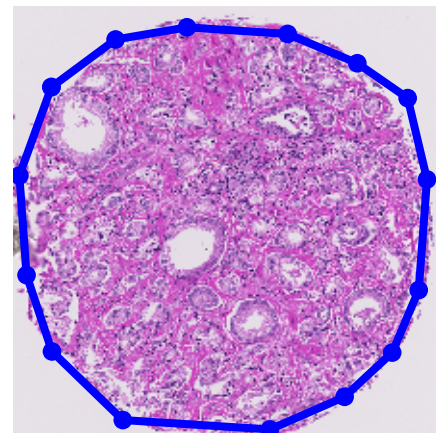
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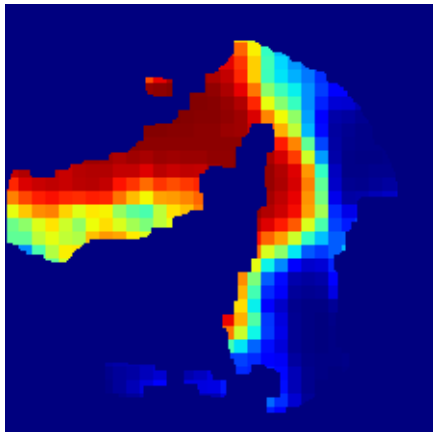
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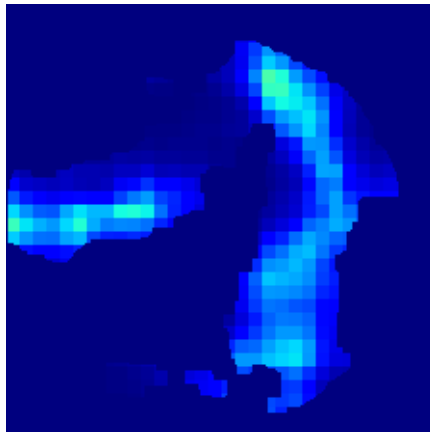
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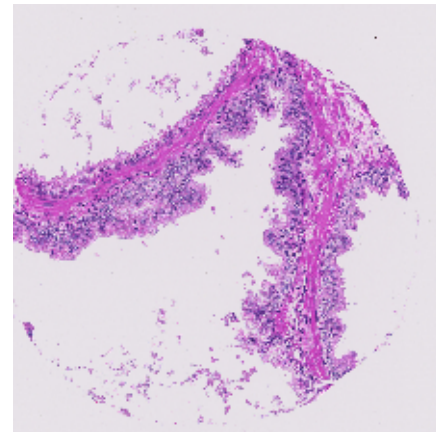
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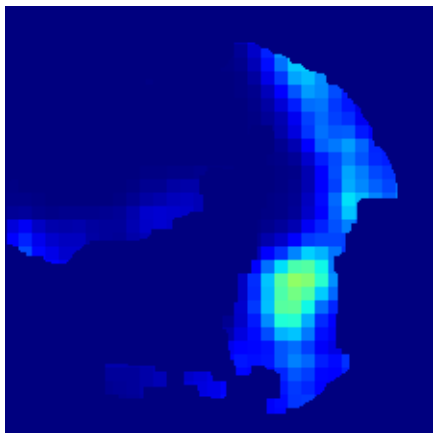
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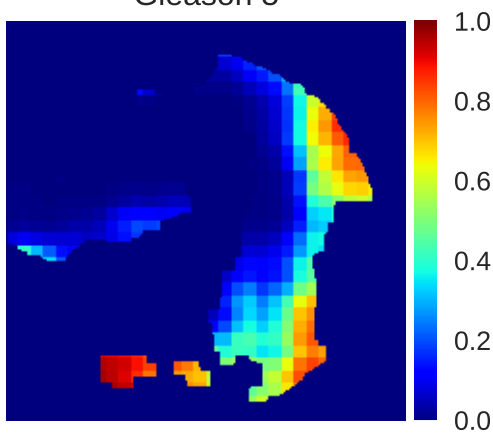
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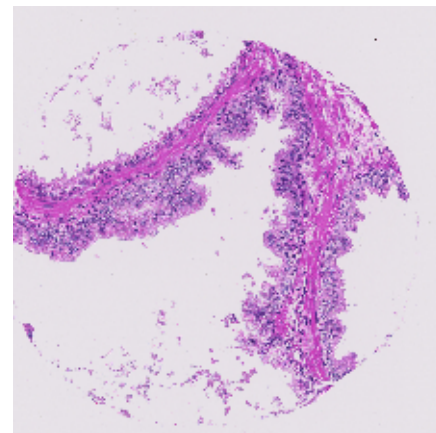
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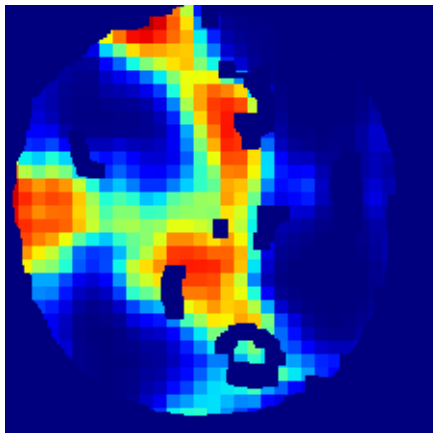
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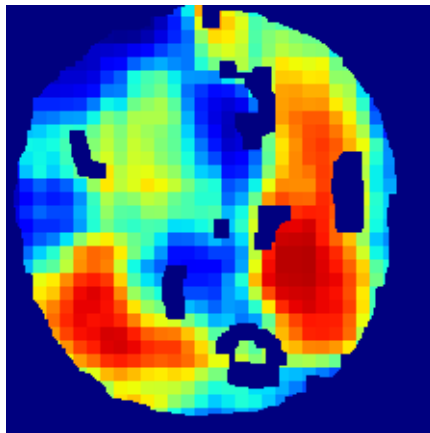
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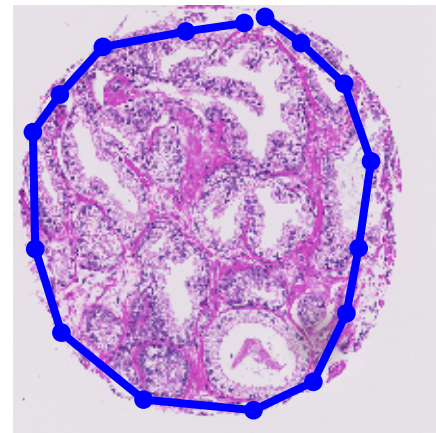
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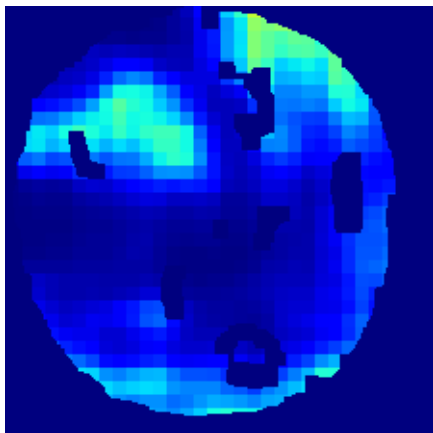
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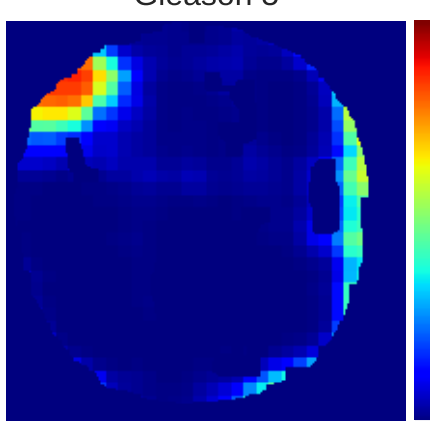
Pathologist 1



Gleason 4



Gleason 5



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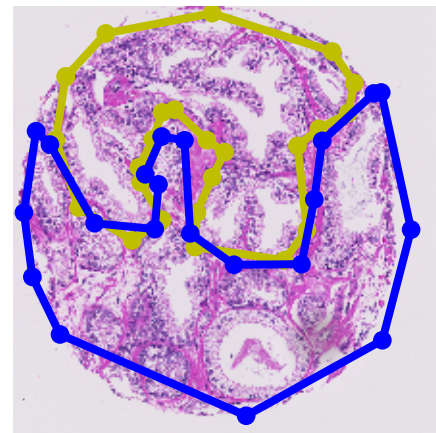
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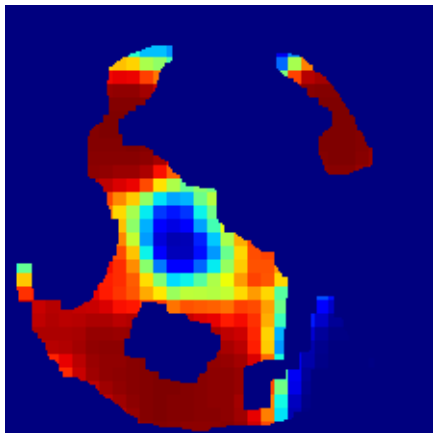
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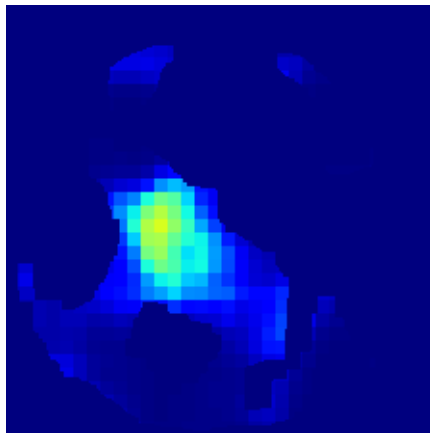
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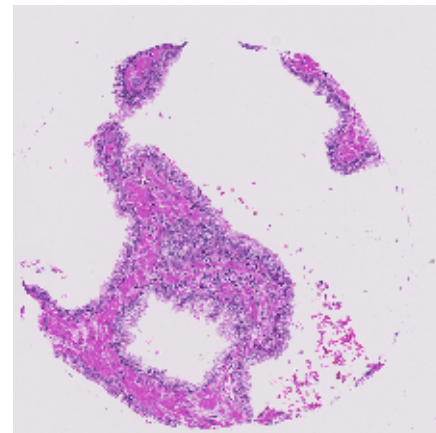
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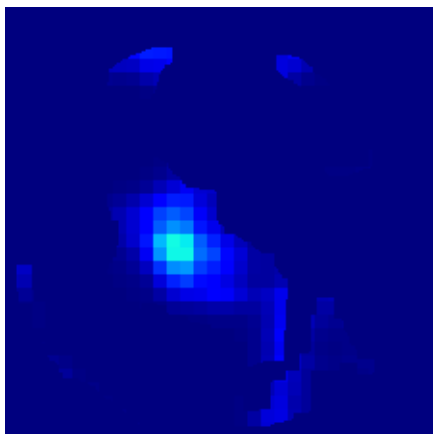
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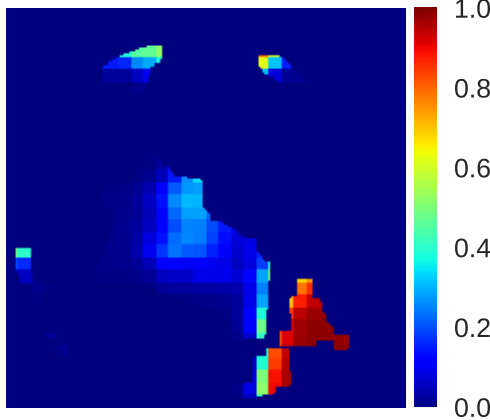
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Gleason 4



Gleason 5



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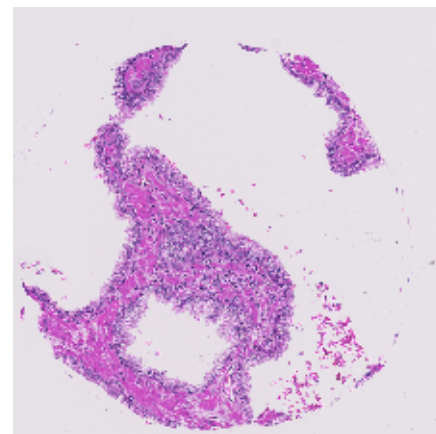
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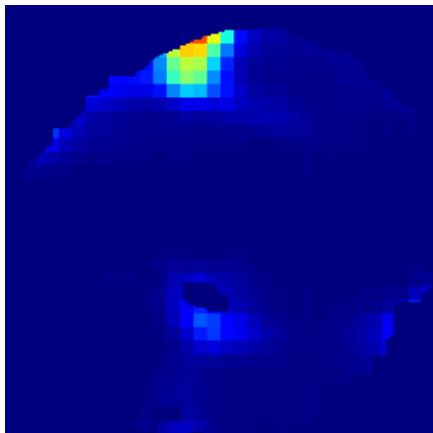
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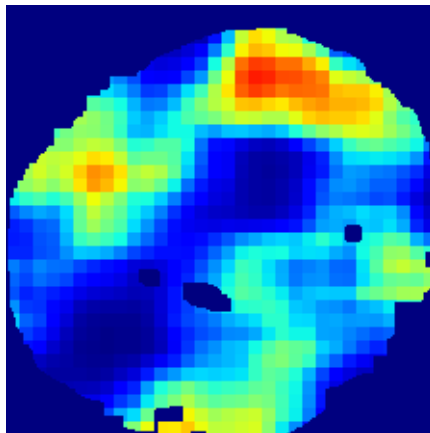
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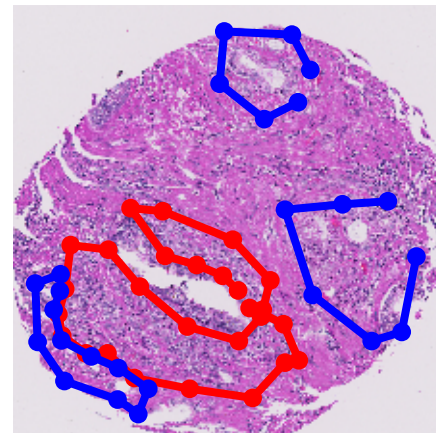
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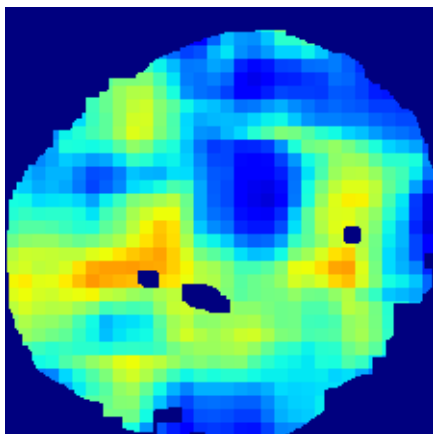
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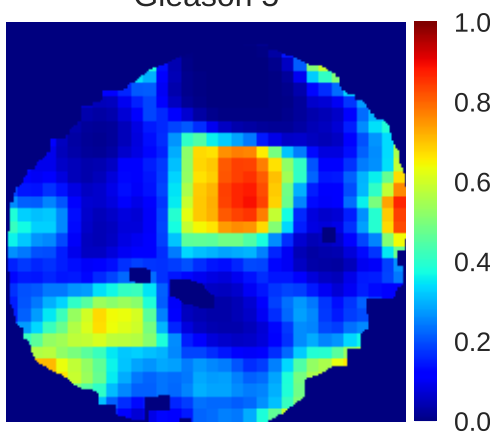
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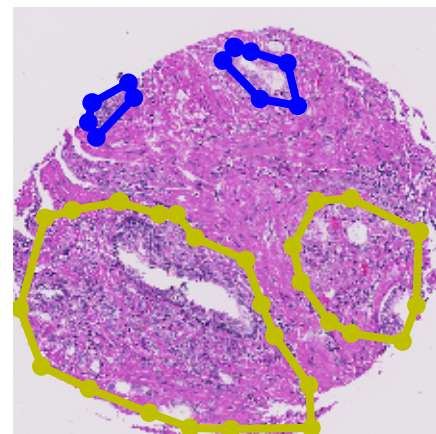
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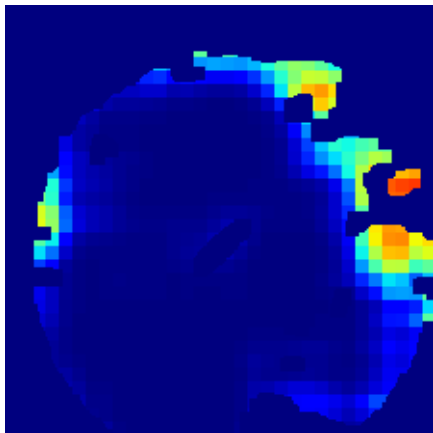
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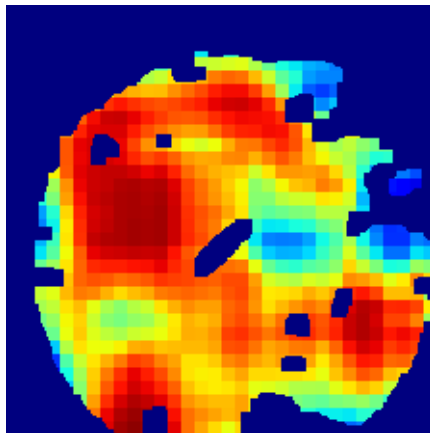
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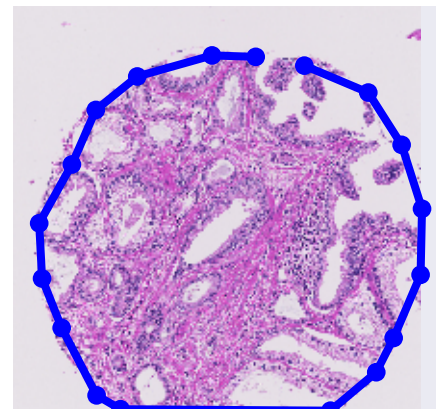
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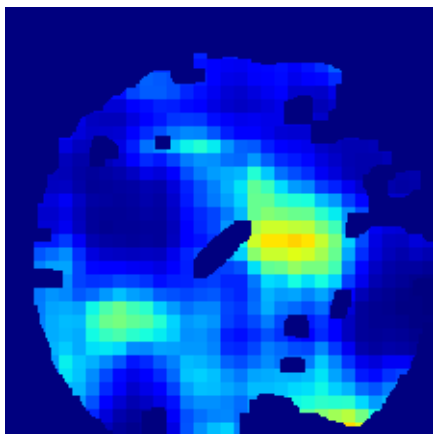
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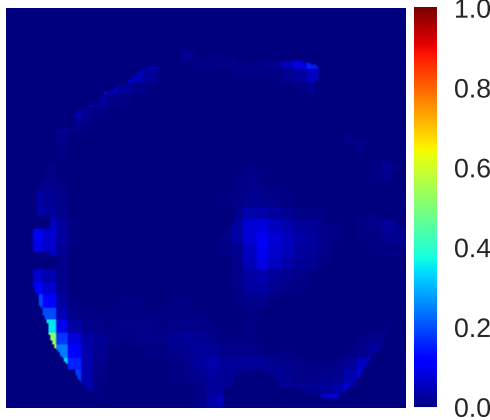
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Gleason 4



Gleason 5



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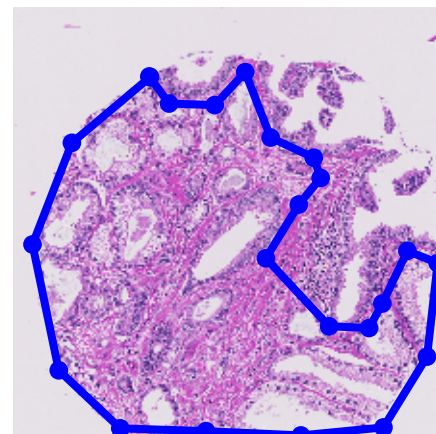
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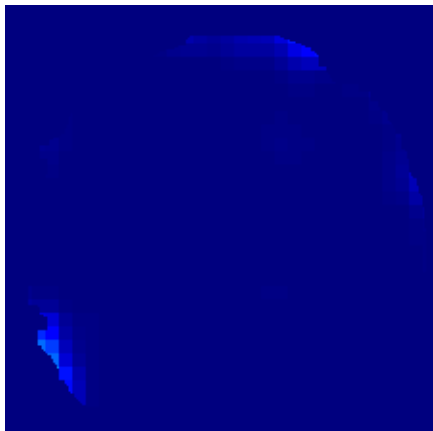
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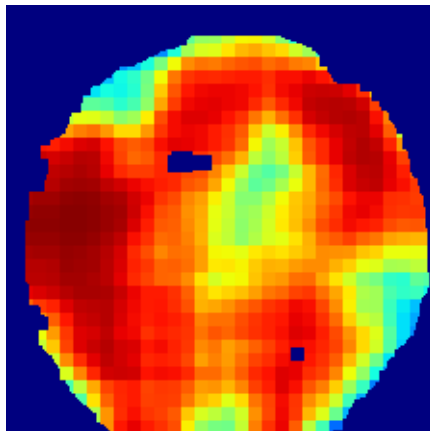
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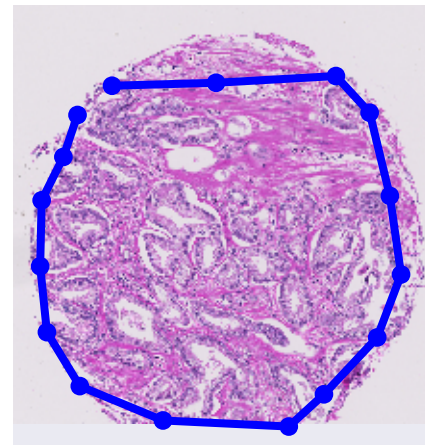
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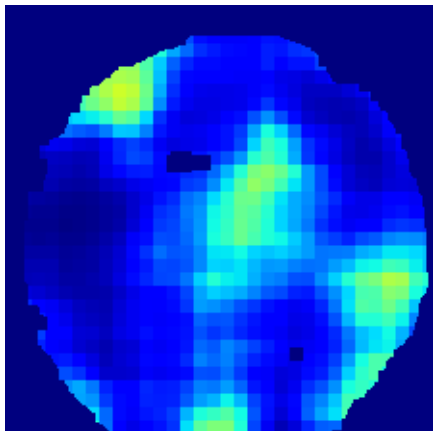
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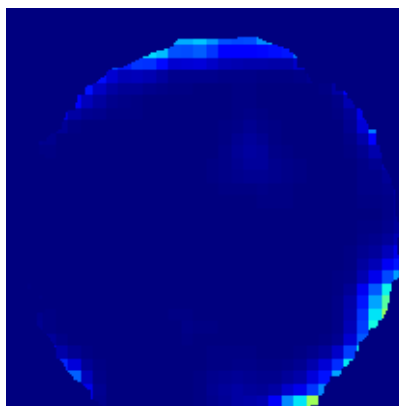
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Gleason 4



Gleason 5



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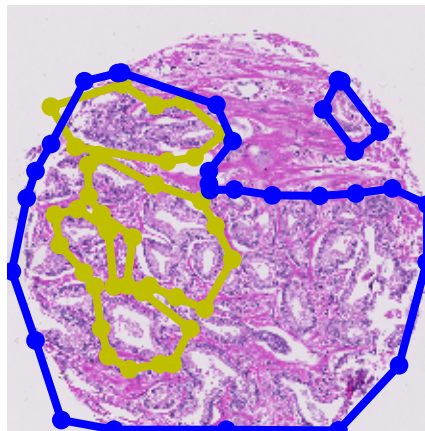
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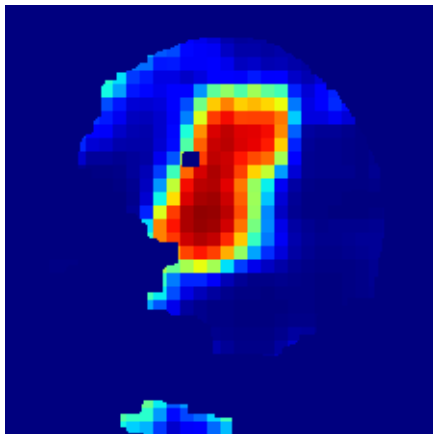
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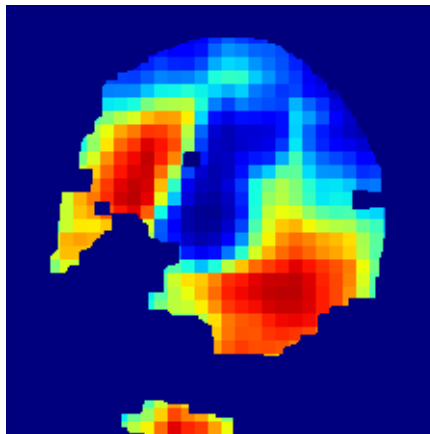
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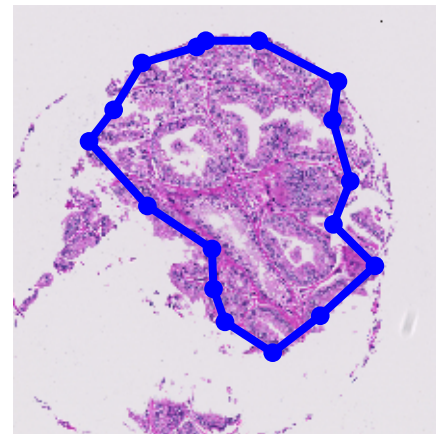
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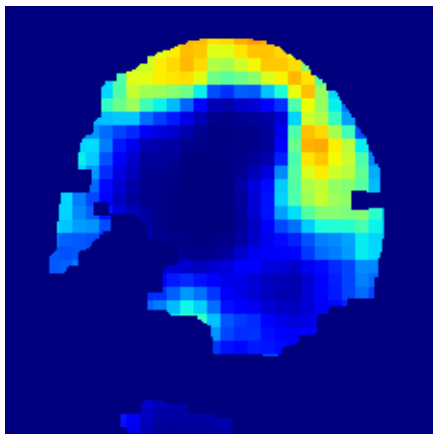
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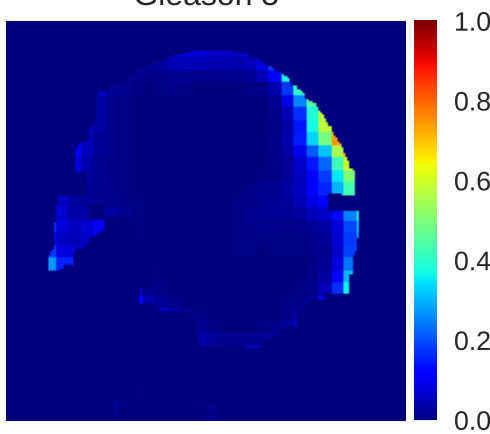
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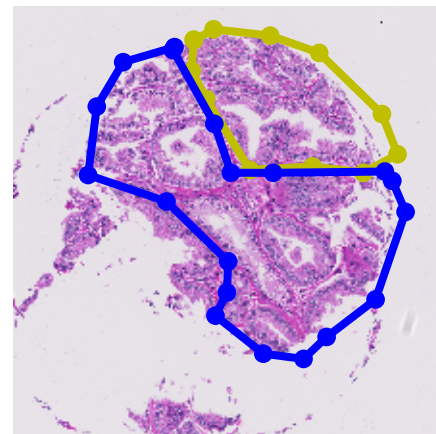
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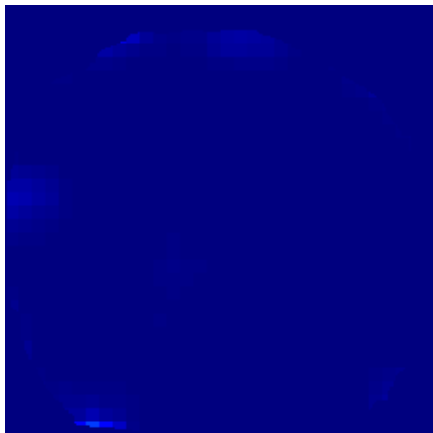
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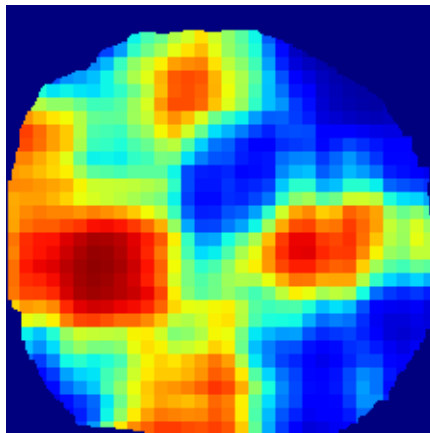
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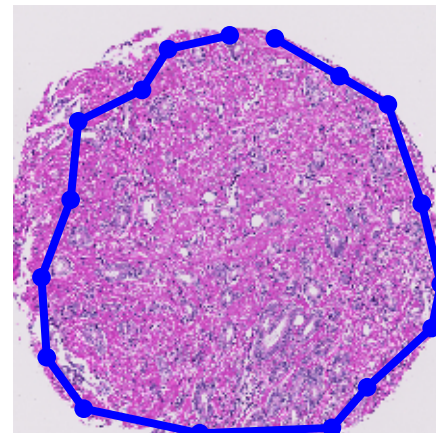
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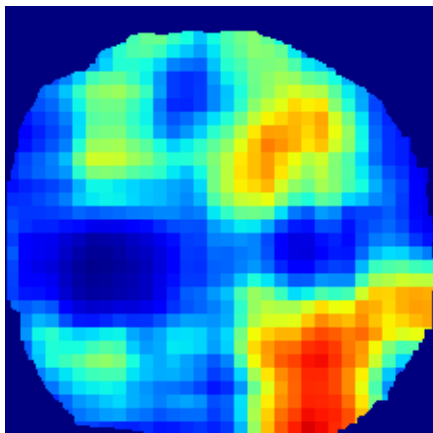
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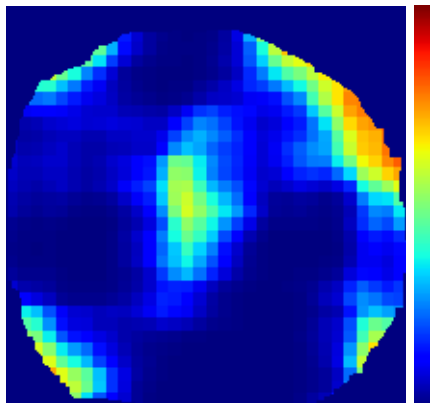
Pathologist 1



Gleason 4



Gleason 5



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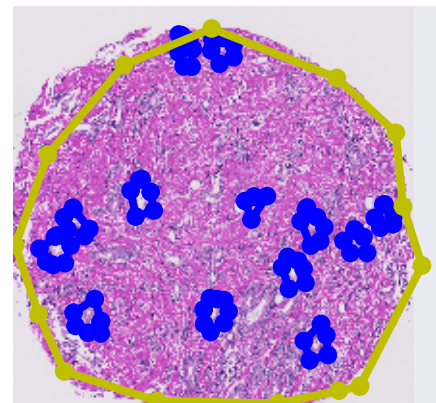
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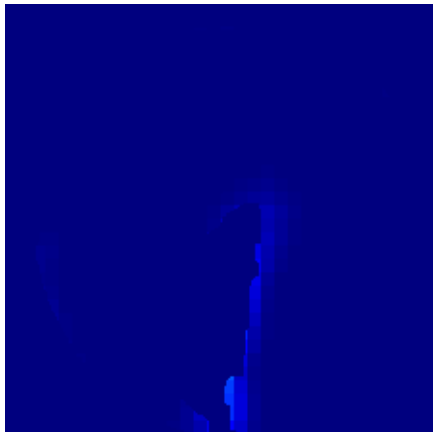
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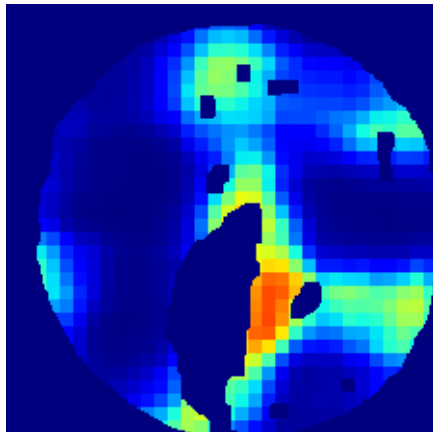
Pathologist 2



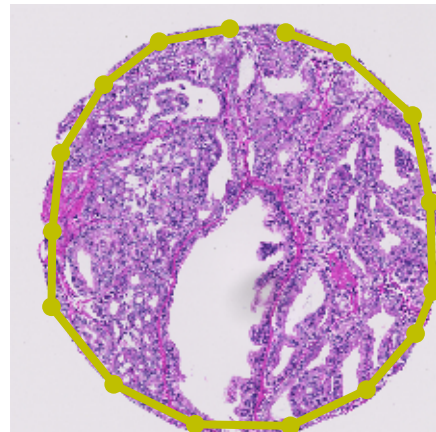
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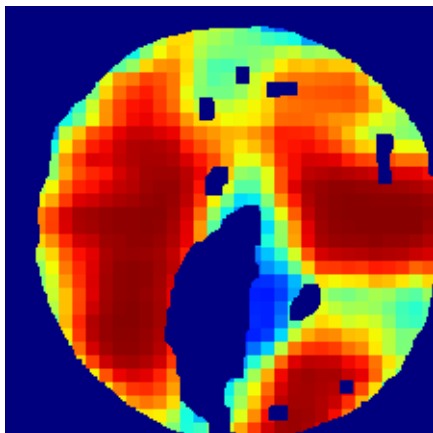
Gleason 3



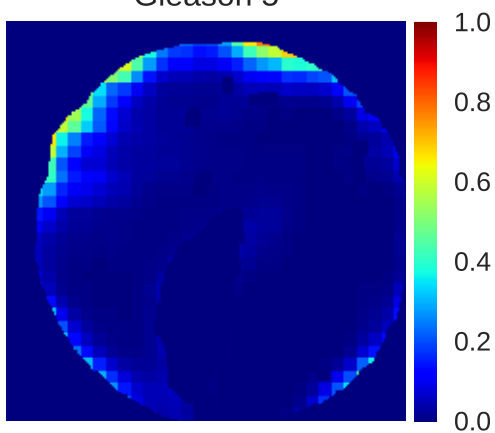
Pathologist 1



Gleason 4



Gleason 5



1.0

0.8

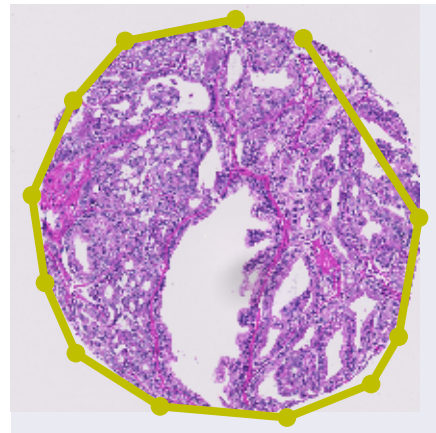
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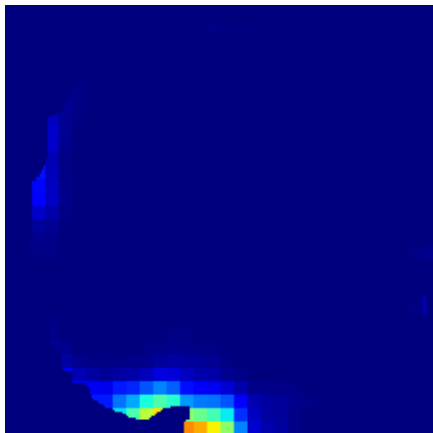
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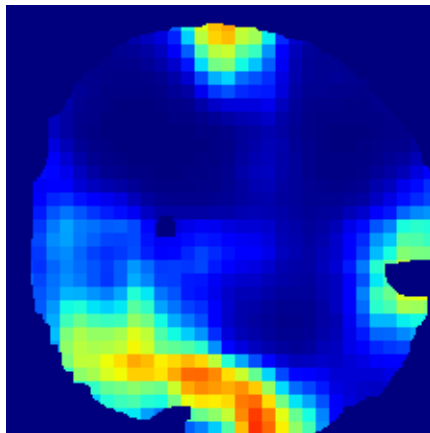
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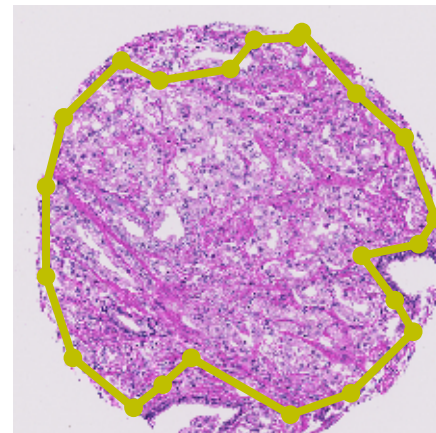
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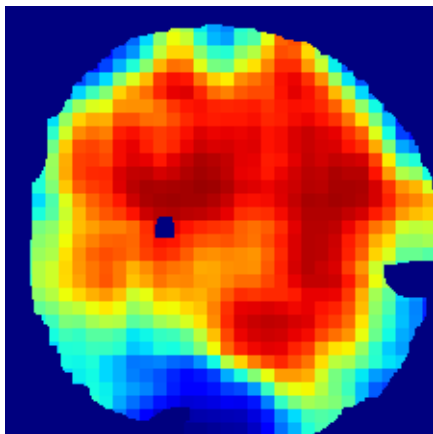
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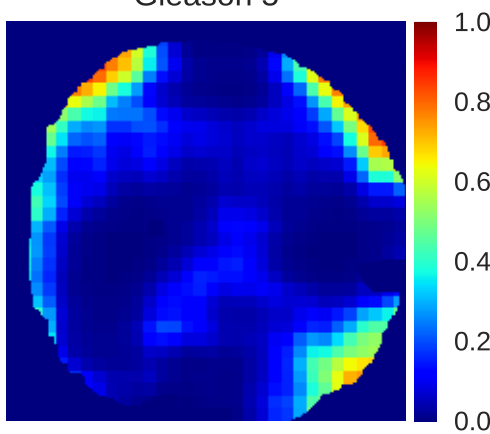
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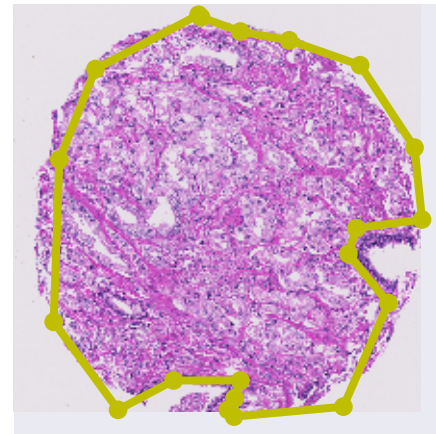
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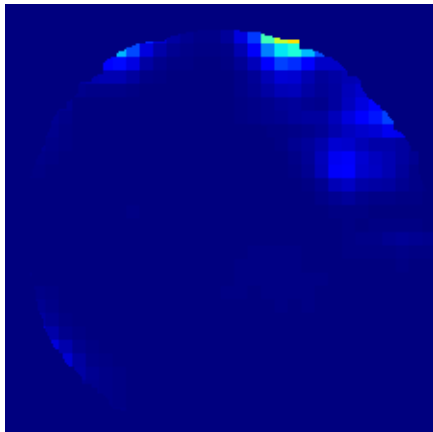
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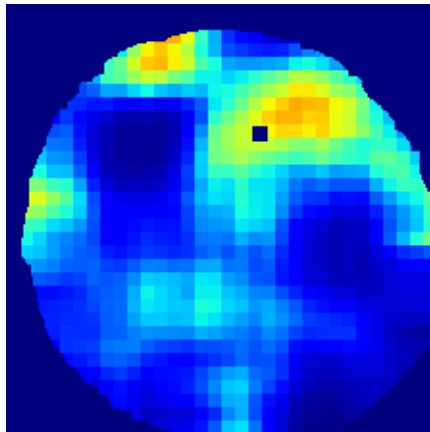
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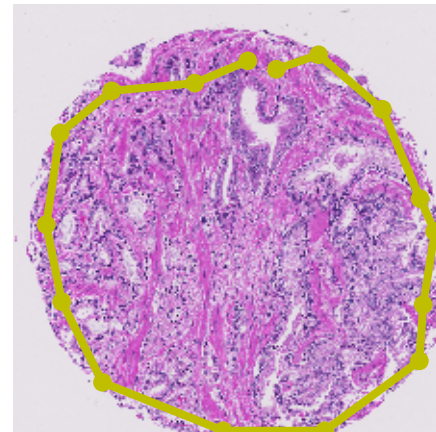
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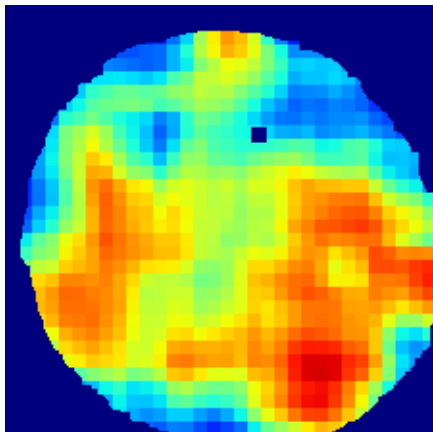
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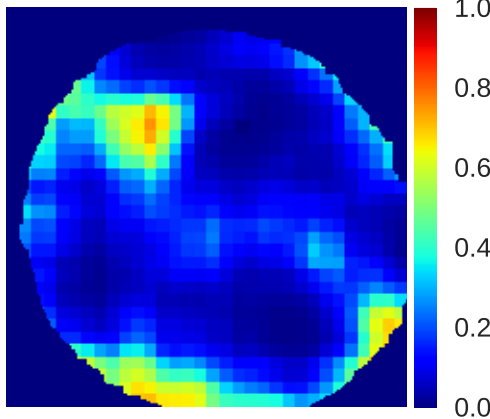
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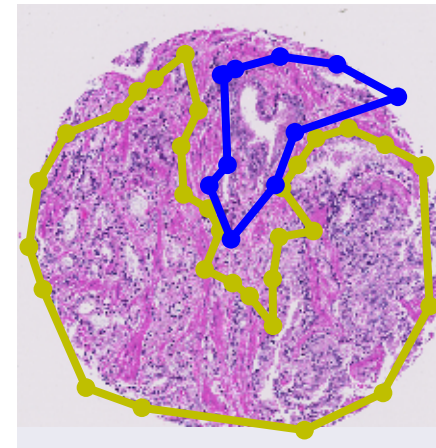
Gleason 4



Gleason 5



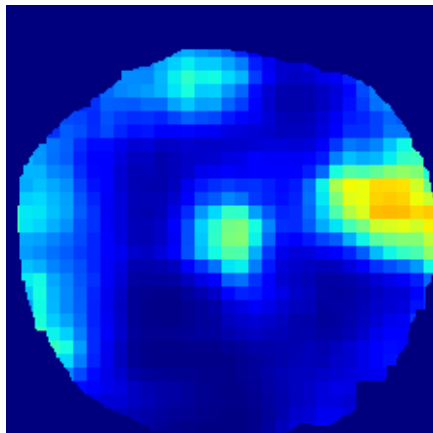
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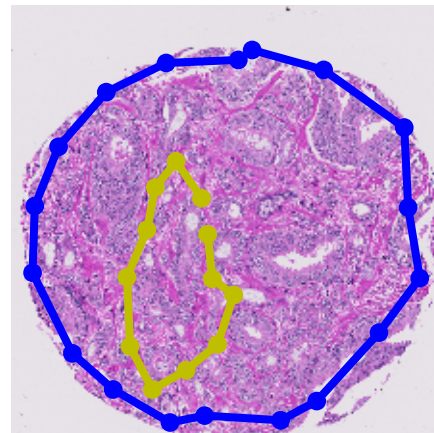
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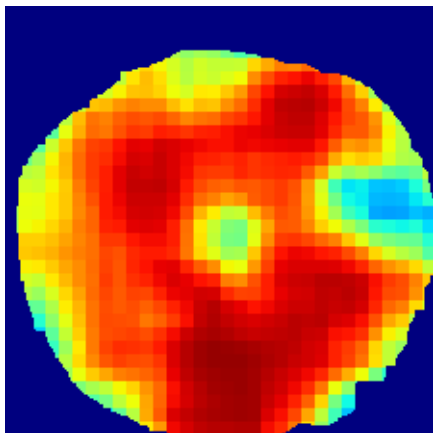
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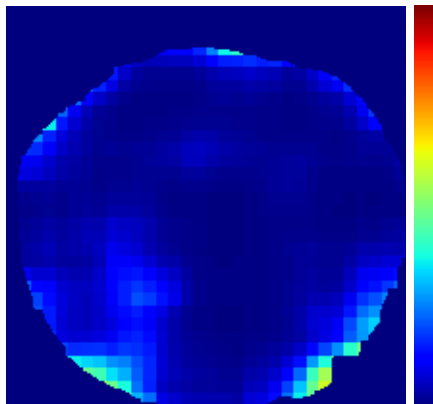
Pathologist 1



Gleason 4



Gleason 5



1.0

0.8

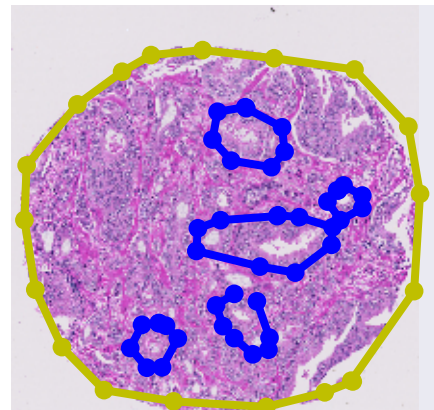
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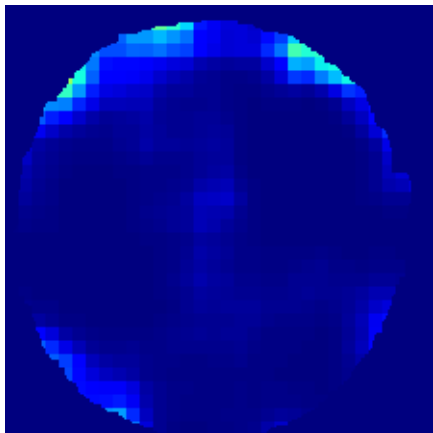
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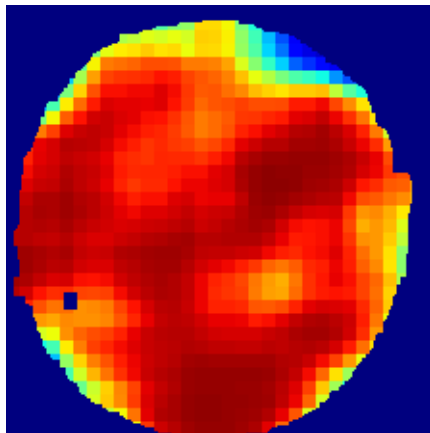
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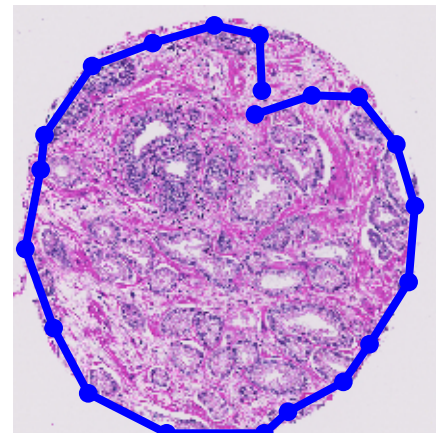
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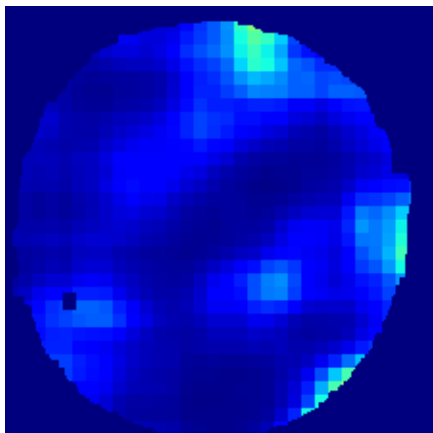
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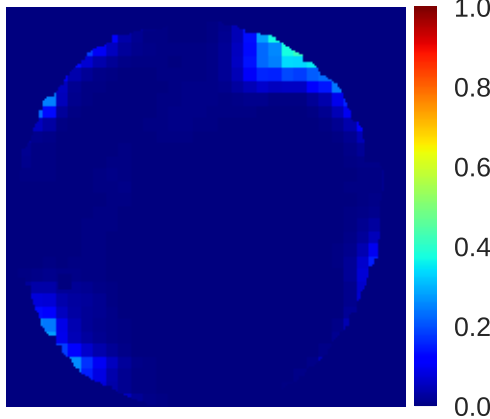
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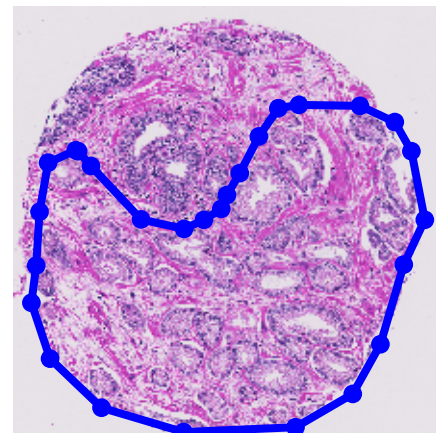
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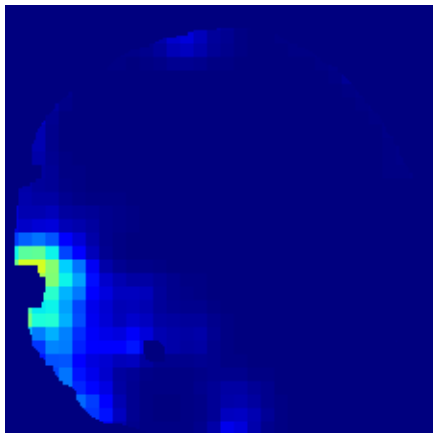
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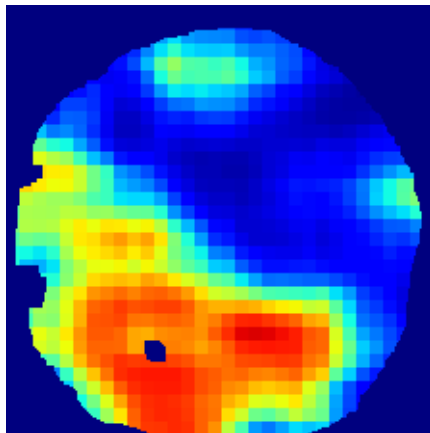
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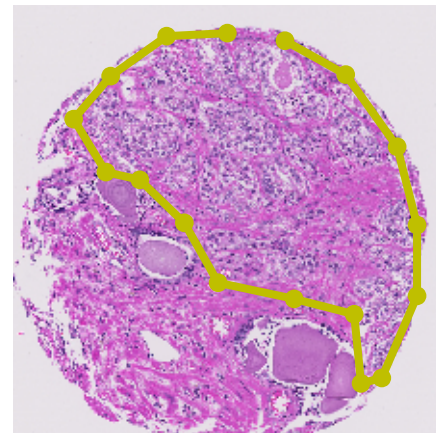
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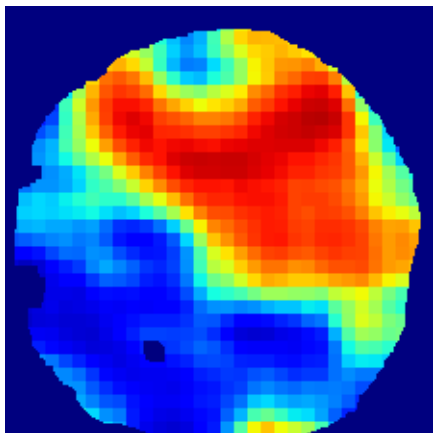
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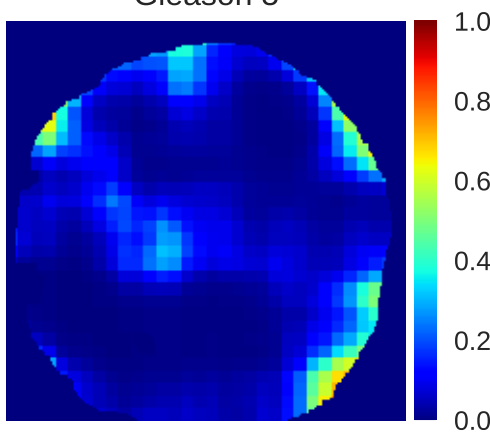
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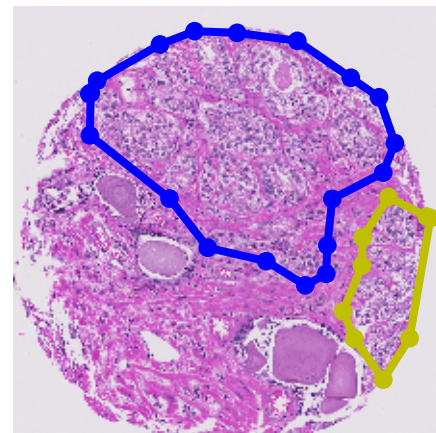
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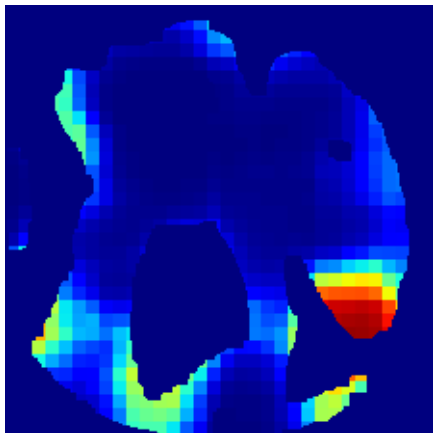
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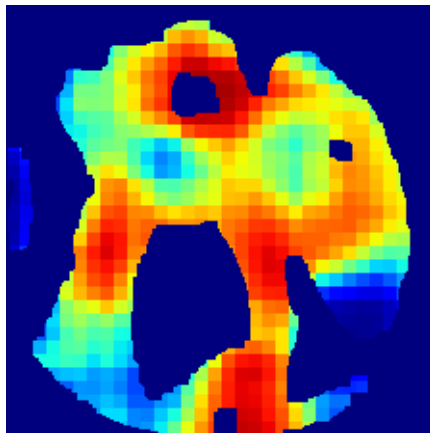
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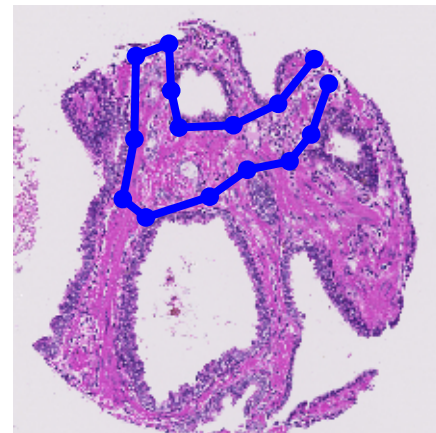
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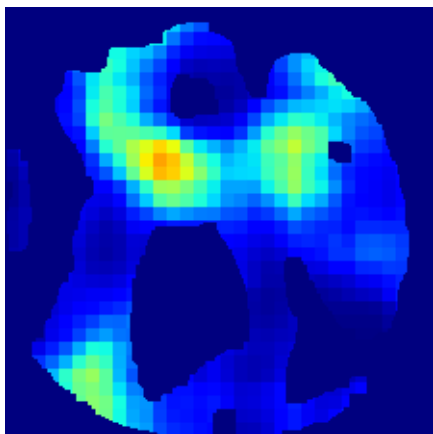
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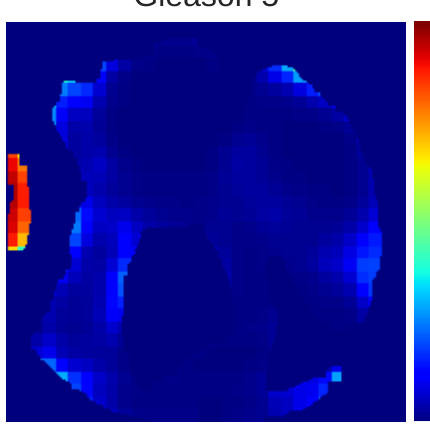
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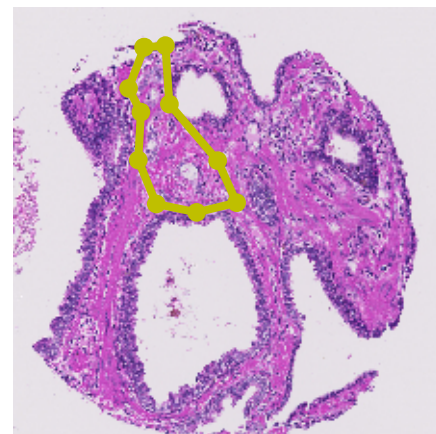
Gleason 4



Gleason 5



Pathologist 2



1.0

0.8

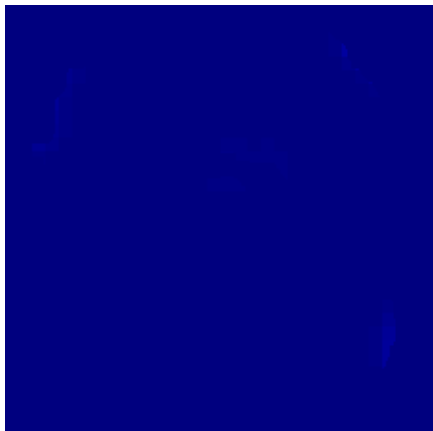
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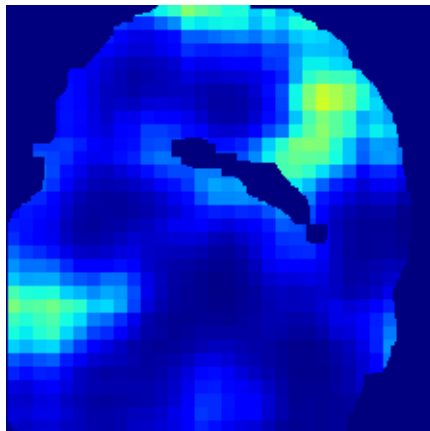
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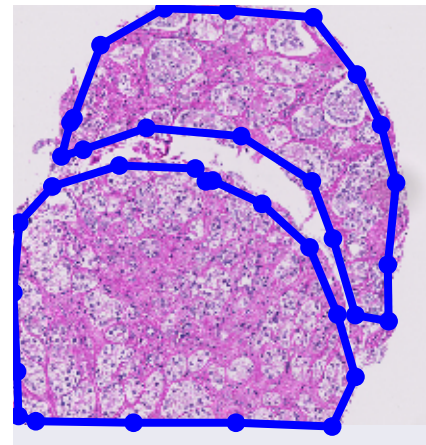
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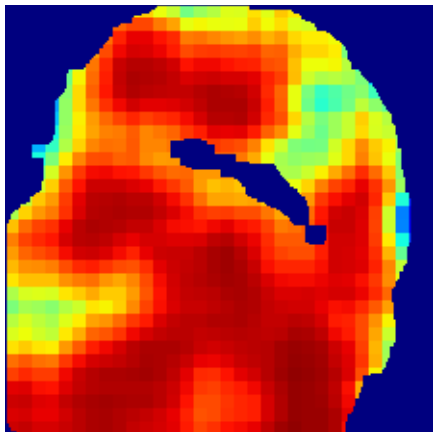
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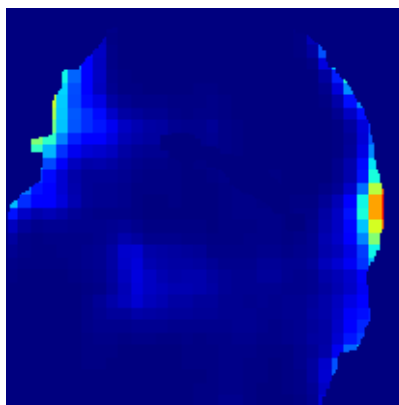
Pathologist 1



Gleason 4



Gleason 5



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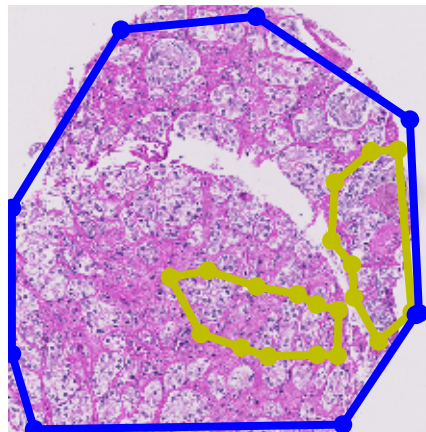
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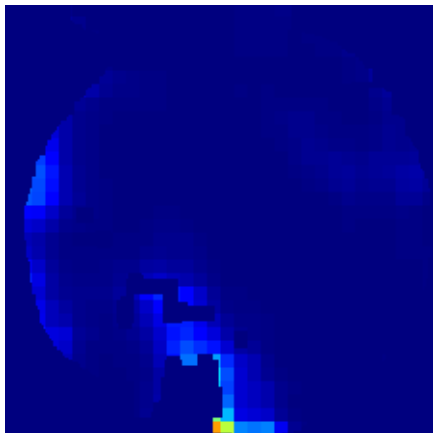
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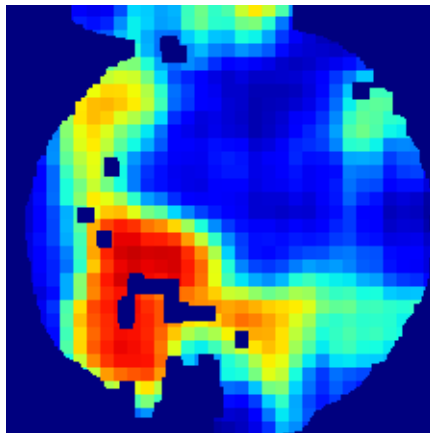
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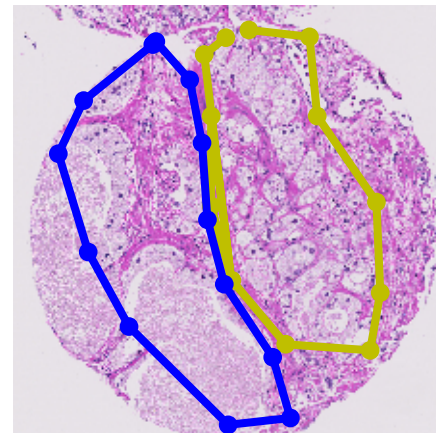
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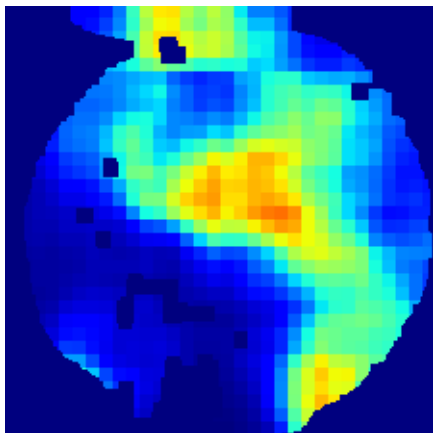
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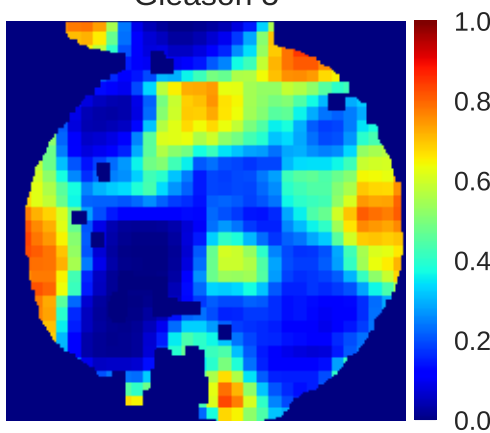
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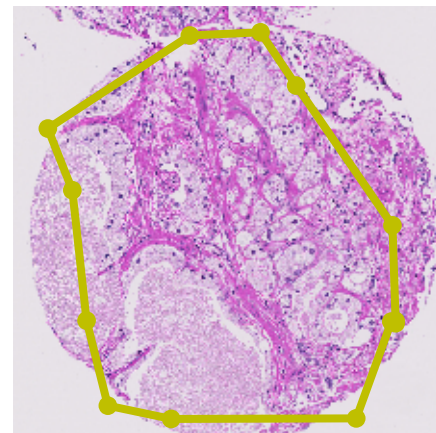
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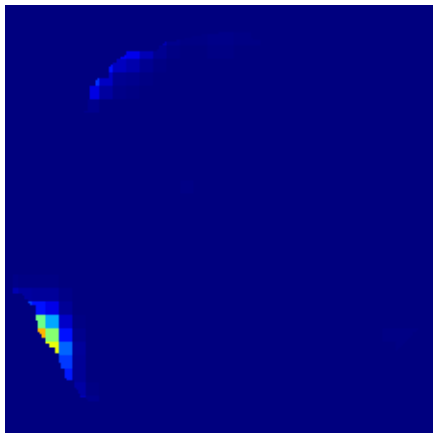
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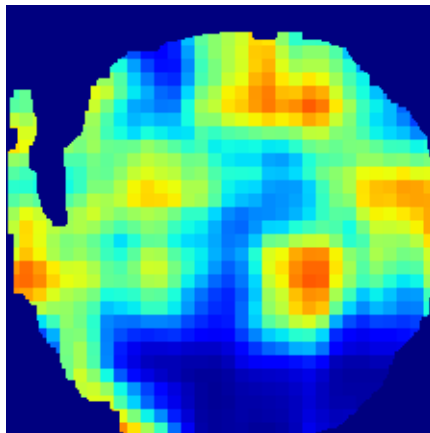
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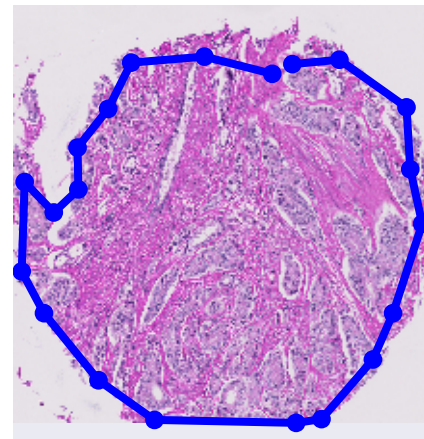
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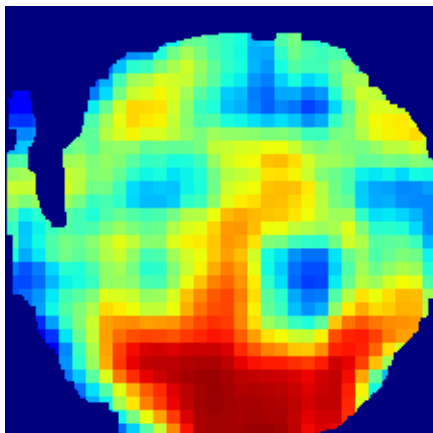
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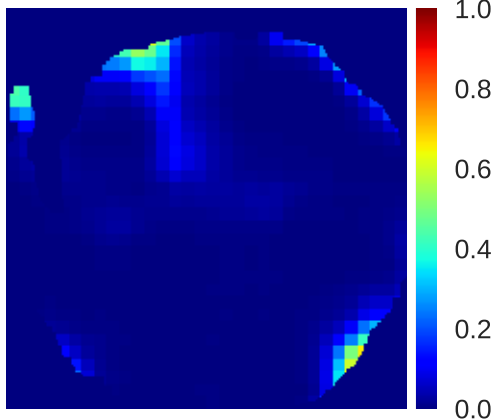
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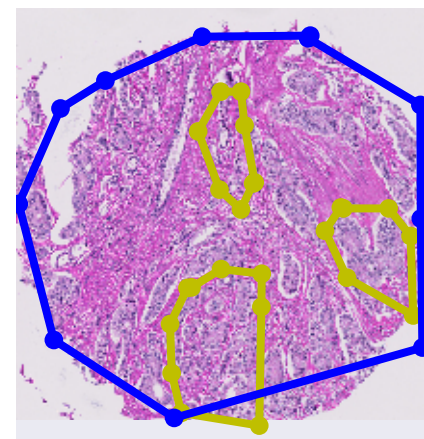
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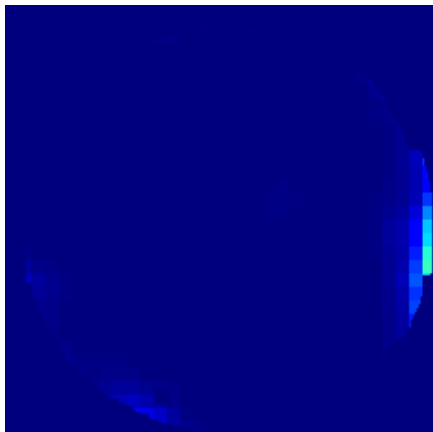
Gleason 5



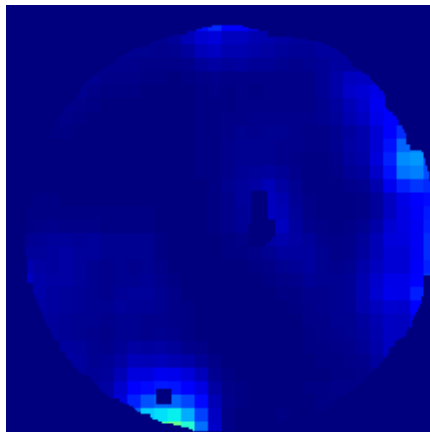
Pathologist 2



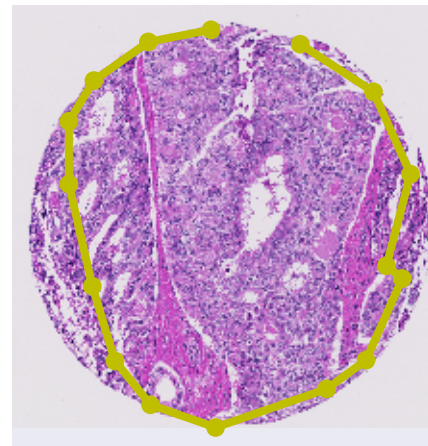
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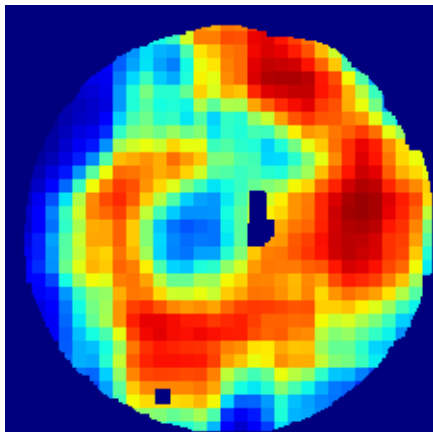
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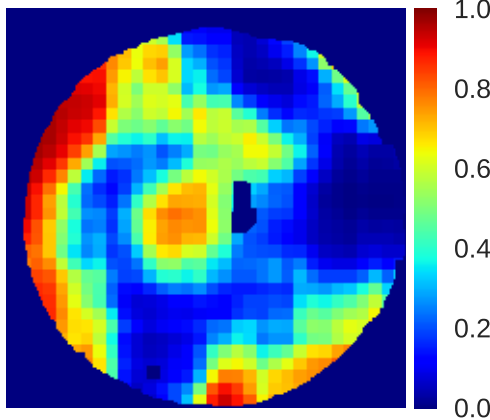
Pathologist 1



Gleason 4



Gleason 5



Pathologist 2

