

# Colon

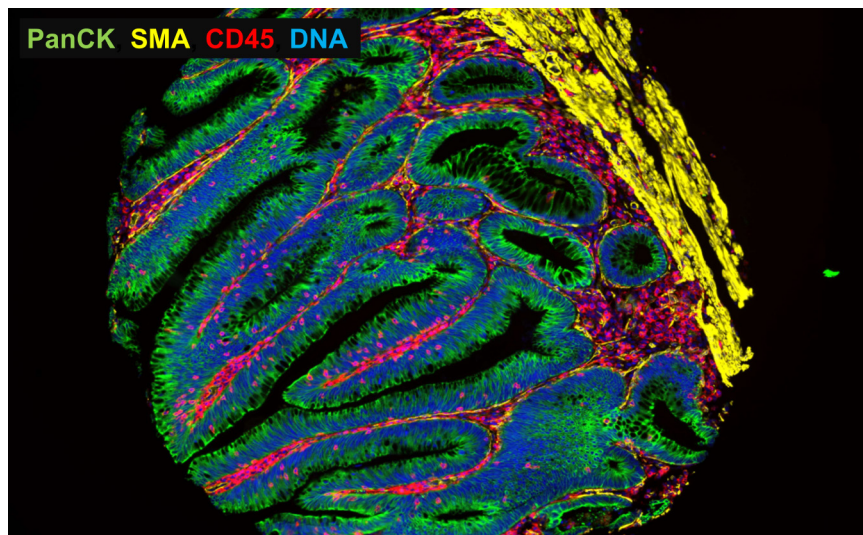
## Colonic Adenoma

### Study Purpose

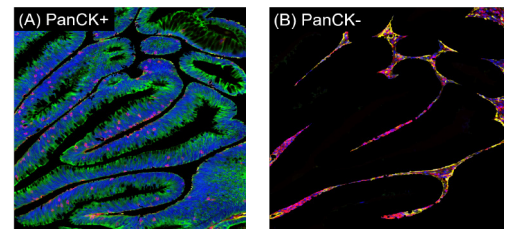
Colonic adenoma is a benign epithelial neoplasm that originates in a single crypt. In this study, colonic adenoma cells and the neighboring microenvironment were segmented into PanCK+ and PanCK- tissue compartments and then profiled using the GeoMx Human Whole Transcriptome Atlas. The differential expression changes between the two compartments were used for pathway analysis.

### Study Summary

Sample Type	FFPE
Species	Human
AOI* Strategy	Segmentation
Assay	Human Whole Transcriptome Atlas
Morphology Markers	Pan-Cytokeratin (PanCK), SMA, CD45, DNA
Targets Detected	14,783 targets
Application	Pathway analysis

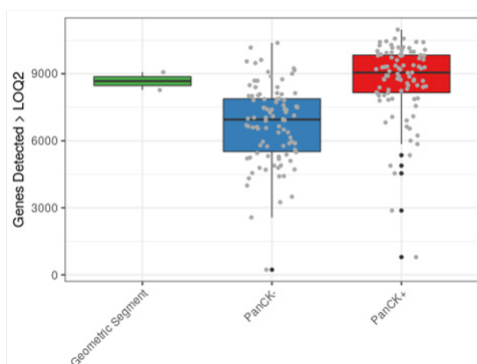


### Segmentation Strategy



### Legend

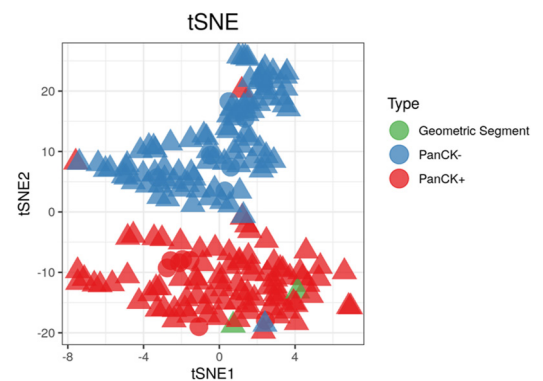
Pan-cytokeratin (PanCK) serves as markers that distinguish colonic adenomas. Colonic adenoma cells and the surrounding microenvironment were enriched through PanCK+ (A) and PanCK- (B) segmentations respectively.



### Legend

Left:  
The number of targets detected above the background (LOQ2\*) by AOI groups.

Right:  
T-distributed stochastic neighbor embedding (tSNE) plot.



\*AOI = Area of Illumination

Acknowledgement: We sincerely thank Dr. Jeong mo Bae from Seoul National University Hospital for sharing these images.

For more information, please visit

<https://nanosttring.com/geomx-morphology-markers/>

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