



Colon

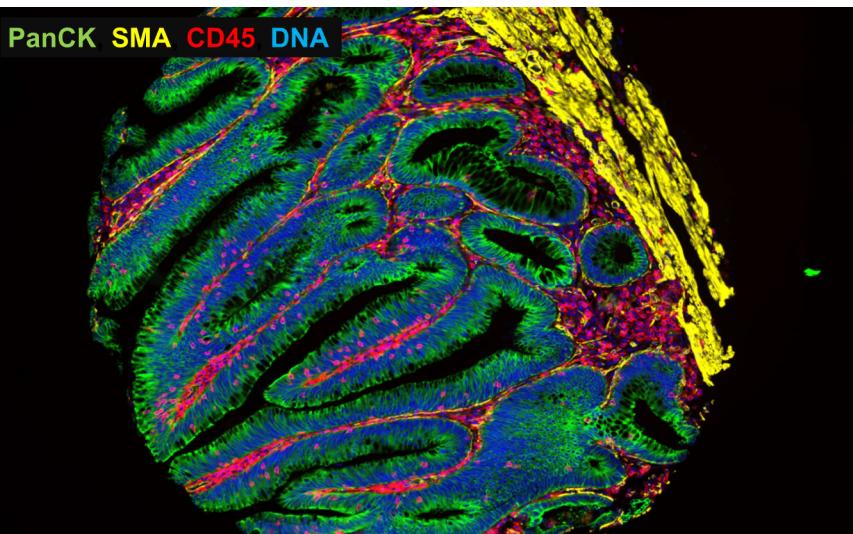
Colonic Adenoma

Study Purpose

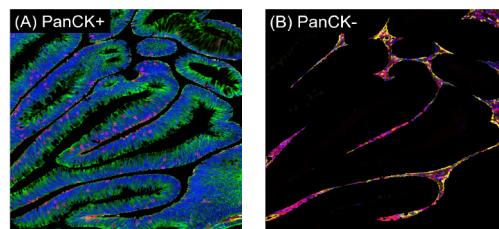
Colonic adenoma is a benign epithelial neoplasm that originates in a single crypt. In this study, colonic adenoma cells and the neighboring microenvironment were segmented into PanCK+ and PanCK- tissue compartments and then profiled using the GeoMx Human Whole Transcriptome Atlas. The differential expression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

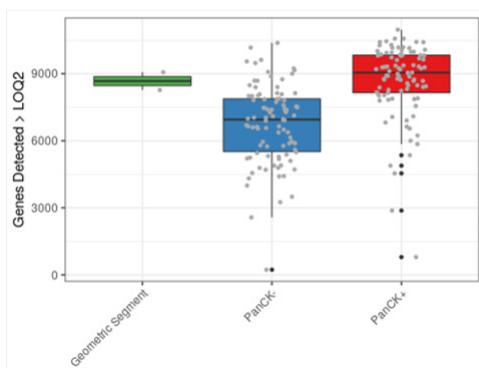


Segmentation Strategy



Legend

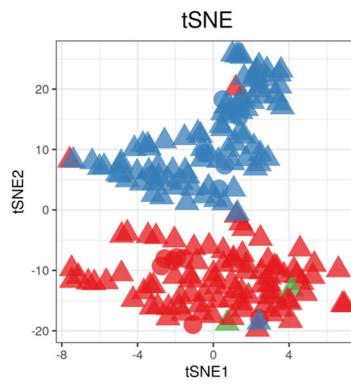
Pan-cytokeratin (PanCK) serves as markers that distinguish colonic adenomas. Colonic adenoma cells and the surrounding microenvironment were enriched through PanCK+ (A) and PanCK- (B) segmentations respectively.



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://nanostring.com/geomx-morphology-markers/>

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