

Skin

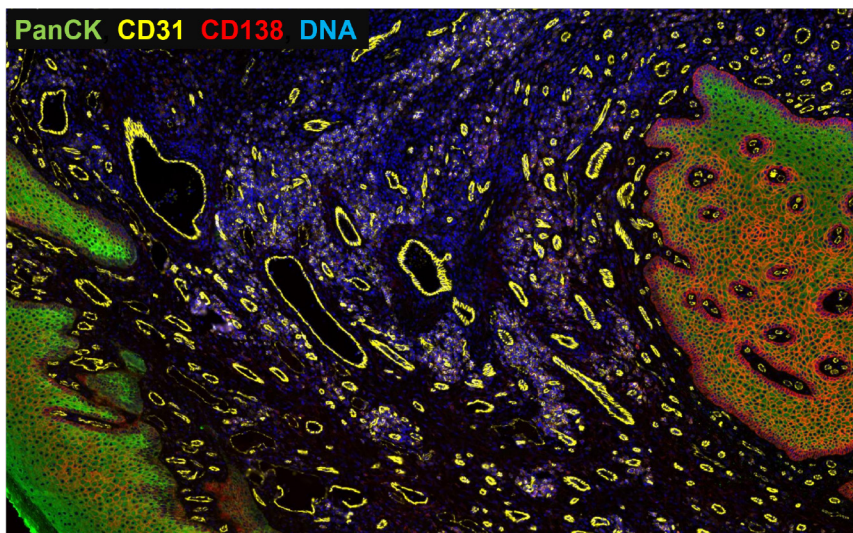
Hidradenitis Suppurativa (HS)

Study Purpose

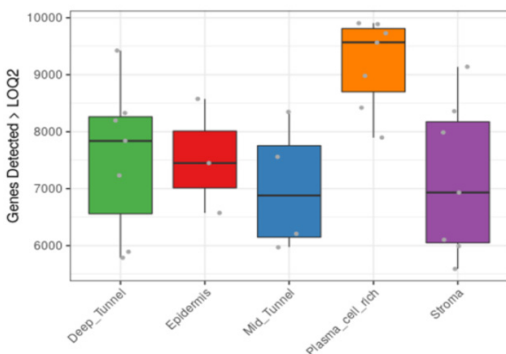
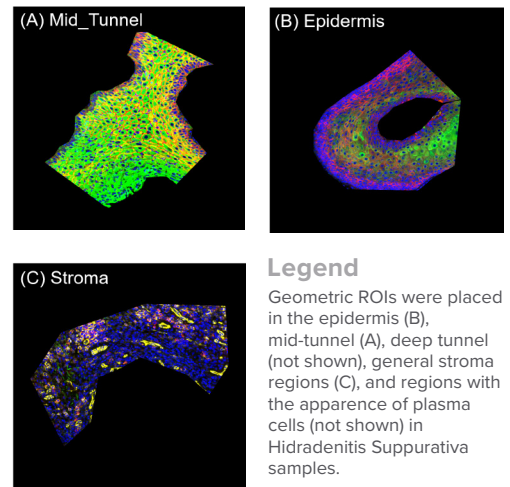
Hidradenitis Suppurativa (HS) is a chronic, painful, burdensome inflammatory disease manifesting in nodules and abscesses of the skin. To investigate the spatial gene expression changes in HS, regions of interest (ROIs) selected in multiple areas were profiled using the GeoMx Human Whole Transcriptome Atlas. Differential gene expression analysis and pathway analysis were conducted to understand transcriptomic changes among these regions.

Study Summary

Sample Type	FFPE
Species	Human
AOI* Strategy	Geometric
Assay	Human Whole Transcriptome Atlas
Morphology Markers	Pan-Cytokeratin (PanCK), CD31, CD138 [#] , DNA
Targets Detected	13,008 targets
Application	Biomarker discovery



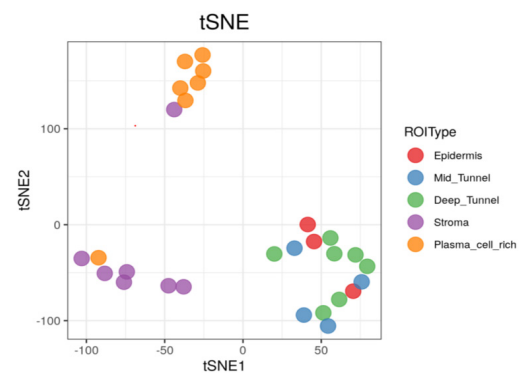
Segmentation Strategy



Legend

Left:
The number of targets detected above the background (LOG2*) by AOI groups.

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



*AOI = Area of Illumination; LOQ=Limit of Quantitation

[#]Alexa Fluor® 594 anti-human CD138 (Syndecan-1) Antibody: Biologend Cat #: 352324

Acknowledgement: We sincerely thank Drs. Clinton Enos and Alice Roberts from Eastern Virginia Medical School for sharing these images.

For more information, please visit

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