

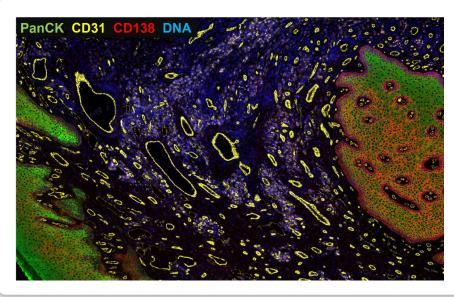
## nanoString

# **Skin**Hidradenitis Suppurativa (HS)

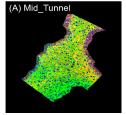
### **Study Purpose**

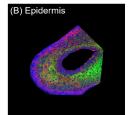
Hidradenitis Suppurativa (HS) is a chronic, painful, burdensome inflammatory disease manifesting in nodules and abscesses of the skin. To investigate the spatial gene expression changes in HS, regions of interest (ROIs) selected in multiple areas were profiled using the GeoMx Human Whole Transcriptome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

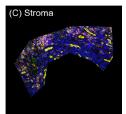
| Study Summary      |  |
|--------------------|--|
| Sample Type        | FFPE                                       |
| Species            | Human                                      |
| AOI* Strategy      | Geometric                                  |
| Assay              | Human Whole Transcriptome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



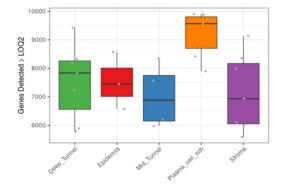
#### Segmentation Strategy







Legend
Geometric ROIs were placed in the epidermis (B), mid-tunnel (A), deep tunnel (not shown), general stroma regions (C), and regions with the apparence of plasma cells (not shown) in Hidradenitis Suppurativa samples.



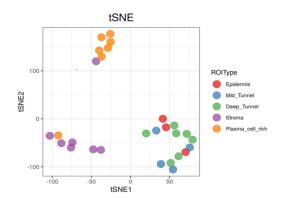
#### Legend

Left:

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

#### Right:

T-distributed stochastic neighbor embedding (tSNE) plot.



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

NanoString Technologies, Inc. 530 Fairview Avenue North Seattle, Washington 98109

T (888) 358-6266 F (206) 378-6288 nanostring.com info@nanostring.com Sales Contacts

United States us.sales@nanostring.com EMEA: europe.sales@nanostring.com

Asia Pacific & Japan apac.sales@nanostring.com Other Regions info@nanostring.com

<sup>\*</sup>AOI = Area of Illumination; LOQ=Limit of Quantitation

<sup>#</sup>Alexa Fluor® 594 anti-human CD138 (Syndecan-1) Antibody: Biolegend Cat #: 352324