

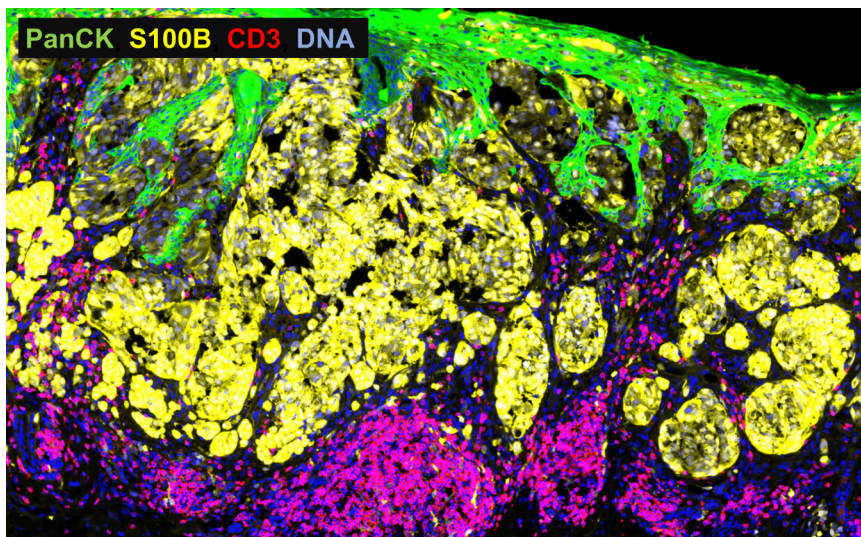
Skin Melanoma

Study Purpose

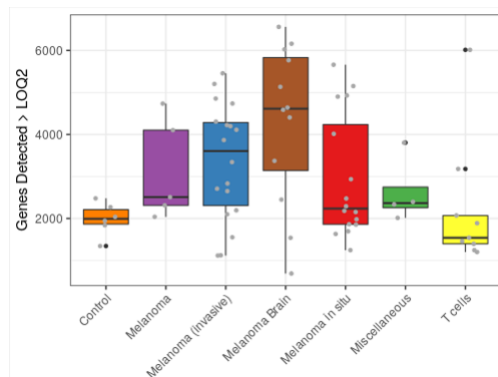
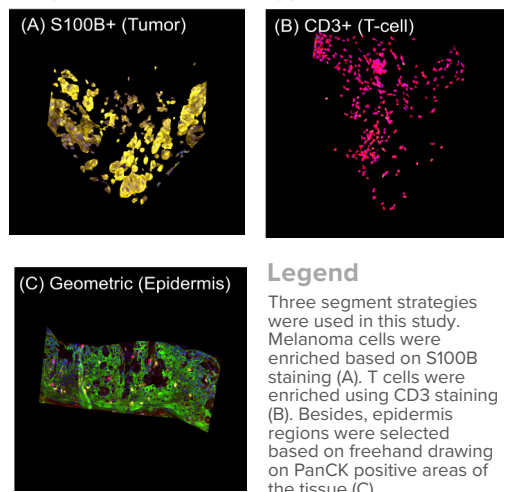
S100B is a clinical biomarker for melanoma staging and prognosis. In this study, clinical specimens from different stages of melanoma were profiled using the GeoMx Human Whole Transcriptome Atlas. Tumor regions and T cells were segmented based on S100B and CD3 fluorescent staining, respectively, and epidermis regions were selected by freehand drawing. Differential gene expression analysis and pathway analysis were used to study the different stages of melanoma progression.

Study Summary

Sample Type	FFPE
Species	Human
AOI* Strategy	Geometric, Cell-type specific
Assay	Human Whole Transcriptome Atlas
Morphology Markers	Pan-Cytokeratin (PanCK), S100B, CD3, DNA
Targets Detected	10,590 targets
Application	Biomarker discovery



Segmentation Strategy



Legend

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

*AOI = Area of Illumination

Acknowledgement: We sincerely thank Dr. Mitchell Stark from the University of Queensland Diamantina Institute for sharing these images.

For more information, please visit

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

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

T (888) 358-6266
F (206) 378-6288

nanosttring.com
info@nanosttring.com

Sales Contacts
United States us.sales@nanosttring.com
EMEA: europe.sales@nanosttring.com

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

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