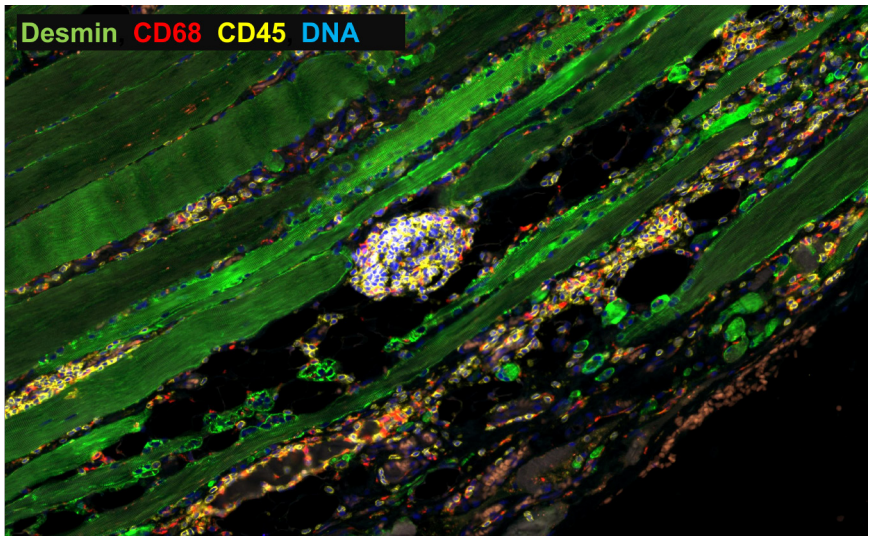
Muscle
Myositis

Study Purpose

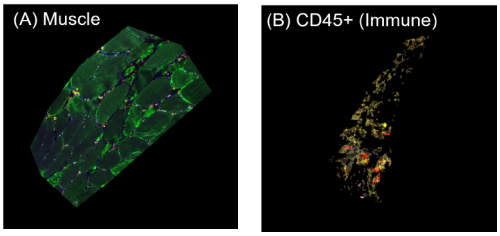
To determine the role of immune cells and muscle cells in human myositis, human muscle biopsies from myositis cases were profiled using the GeoMx Human Whole Transcriptome Atlas. Transcriptional differences between muscle and immune compartments (based on CD45 positive staining) were explored.

Study Summary

Sample Type	FFPE
Species	Human
AOI* Strategy	Geometric, Cell-type specific
Assay	Human Whole Transcriptome Atlas
Morphology Markers	Desmin, CD68, CD45, DNA
Targets Detected	8,263 targets
Application	Biomarker discovery

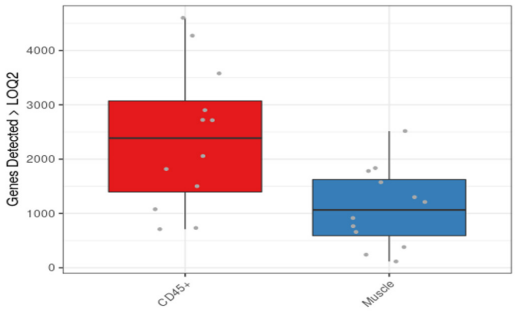


Segmentation Strategy



Legend

Desmin is an intermediate filament protein that occurs exclusively in muscle and endothelial cells. Muscle tissue regions (A) were selected based on Desmin positive staining and immune cells within these regions (B) were profiled based on CD45 positive fluorescent staining.



Legend

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

Right:
Principal component analysis (PCA) plot.

*AOI = Area of Illumination

Acknowledgement: We sincerely thank Dr. Lawrence Hayward from the University of Massachusetts 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