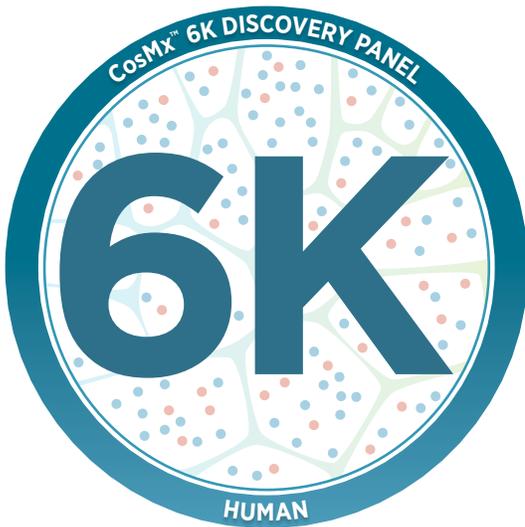




# CosMx™ Human 6K Discovery Panel

## Propel your single cell research to uncover unprecedented spatial biology

Elevate your single cell research with CosMx SMI. The CosMx Human 6k Discovery Panel enables researchers to profile over 6000 genes with no need to dissociate tissue and lose biology.



### Product Highlights

- Measure over 6000 RNA targets plus protein markers for cell segmentation
- Customize with up to 200 additional RNA targets
- Profile the most significant genes across every biological pathway
- Perform spatial multiomics with same platform CosMx Protein Assays up to 64-plex
- Best-in-class cell segmentation algorithms for accurate spatial single cell analysis
- Visualize and analyze data with the interactive, easy-to-use AtoMx™ Spatial Informatics Platform (SIP)

### Why use CosMx Human 6K Discovery Panel over scRNA-seq?

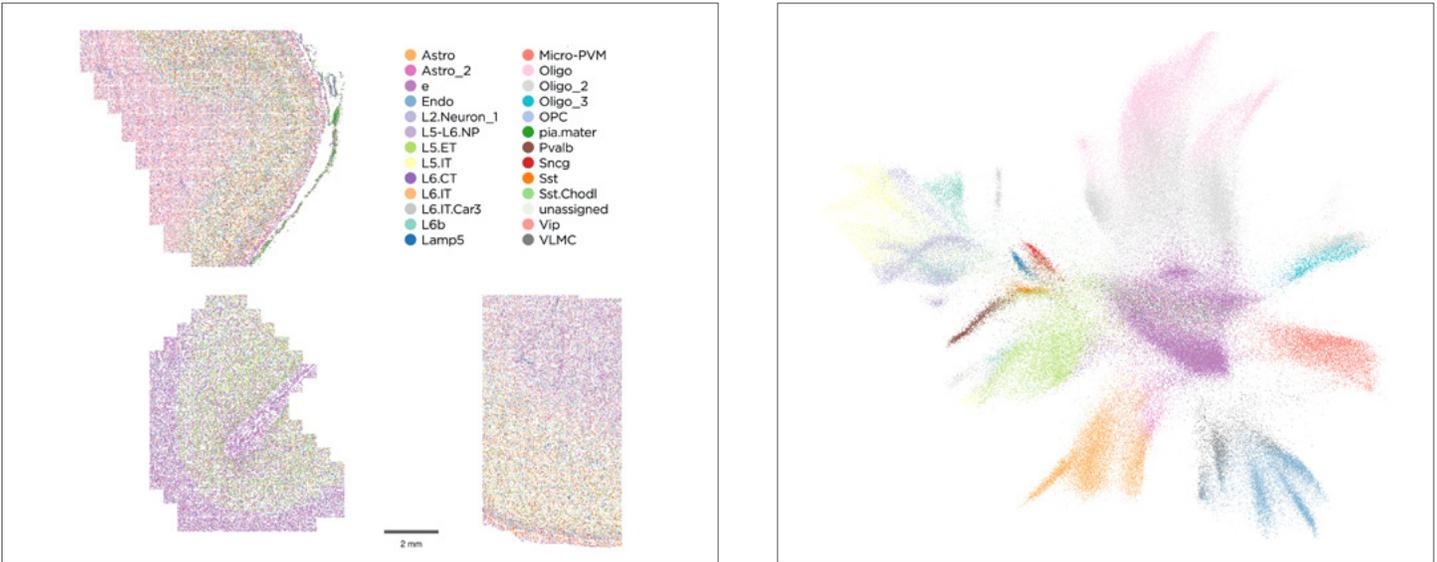
	scRNA-seq	CosMx SMI
Cells per Sample	10,000	1,000,000
Data points per sample (Millions)	200	6,000
Cell Sub-sampling	5%	100%
Cell Loss	35%	0%
Cell Coverage	Partial (systematic loss of some cell types)	Full
Cell State	Partial	Full
Spatial Context	Lost	Maintained

Based on typical values for an FFPE scRNA-seq workflow and CosMx SMI workflow

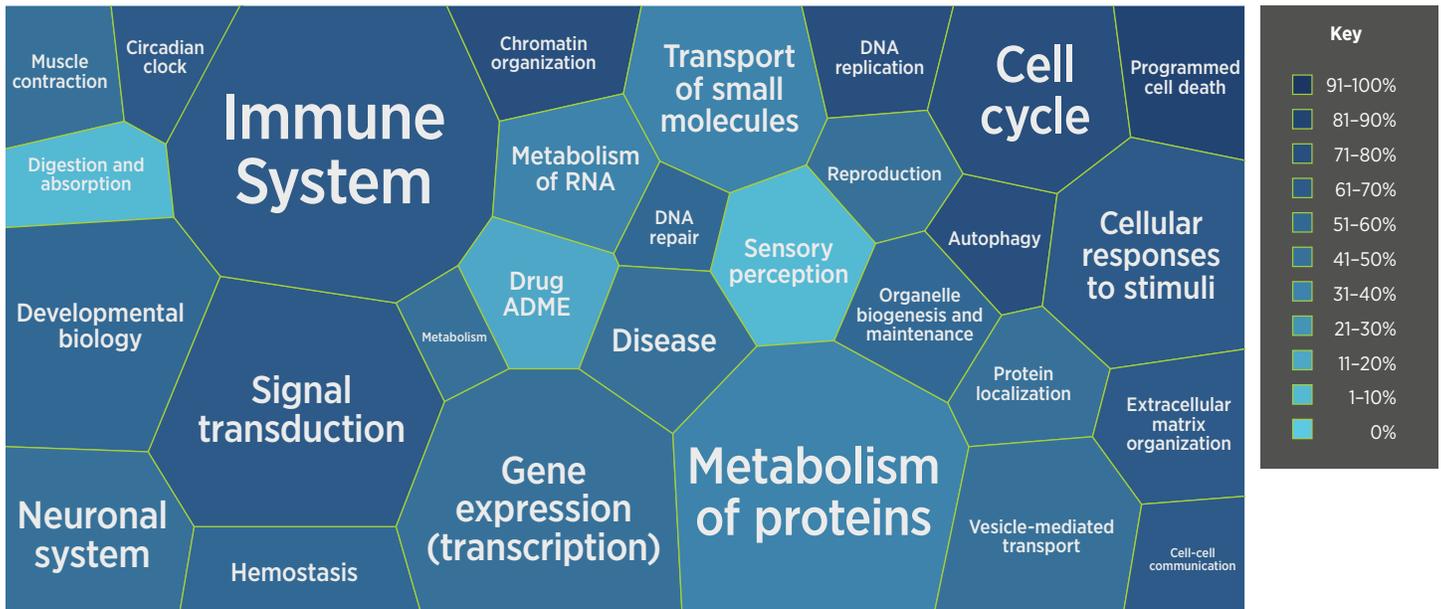
## Discover Spatial Single Cell Applications



## Semi-supervised cell typing using Allen Human M1 Atlas

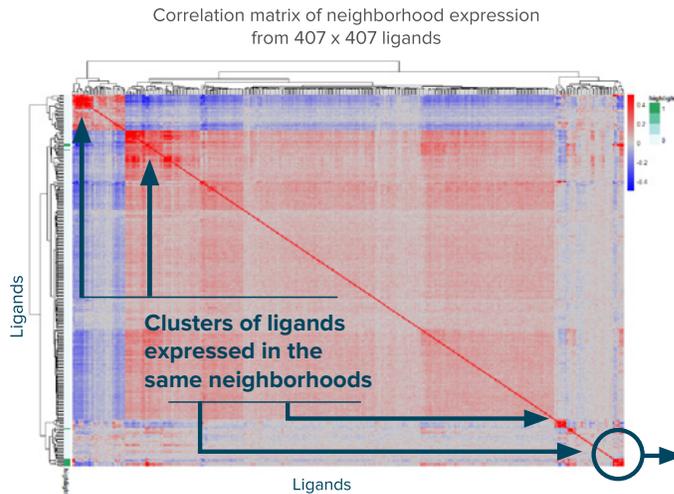


## CosMx Human 6K Discovery Panel Gene Coverage

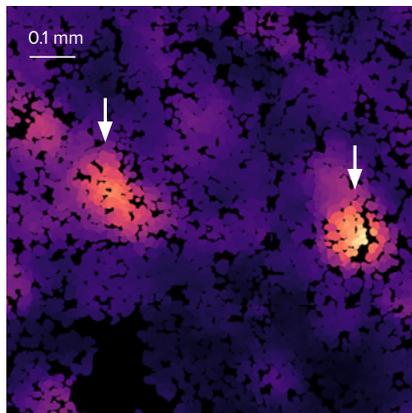


# Discovery of spatially co-expressed ligands in diverse types of cells in FFPE liver cancer

Ligand-receptor Interaction:

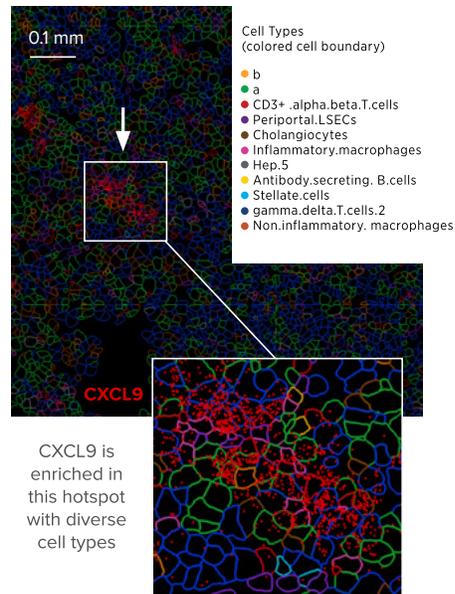


One cluster of co-expressed ligands in sporadic hotspots



One cluster: CXCL9, PTPRC, HLA-E, HLA-DPA1, HLA-DPB2, HLA-DQA1, HLA-DMA, HLA-DMB, HLA-DQA2, HLA-DQB1, HLA-DRA

Discover differential gene expression and interaction between diverse cell types in space with subcellular resolution



CXCL9 is enriched in this hotspot with diverse cell types

For more information, please visit

[nanosttring.com/products/cosmx-spatial-molecular-imager/cosmx-panels-assays/human-6k-discovery-panel](https://nanosttring.com/products/cosmx-spatial-molecular-imager/cosmx-panels-assays/human-6k-discovery-panel)

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