



AtlasXomics

Ushering in a new wave of discovery

May 2021

AtlasXomics: Commercializing a next gen spatial profiling tool



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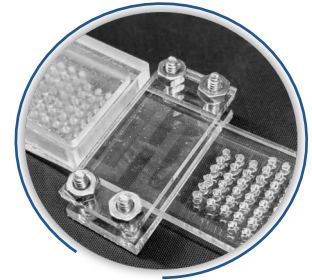
Rong Fan, Founder

Professor of BME at Yale



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Chief Scientific and Innovation Officer
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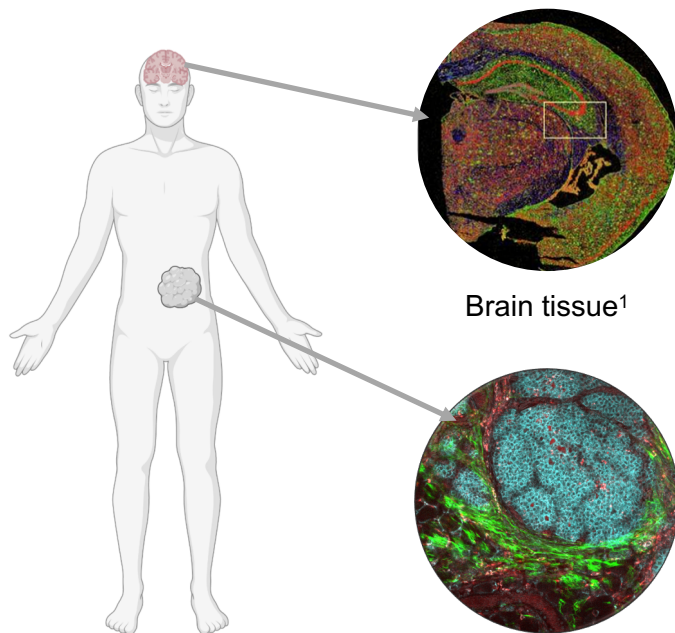
Method published in Cell 2020



Method featured in Nature's
2020 method of the year

Mapping tissue cellular architecture has immense value

Tissue function is dictated by changes in the cellular architecture



Brain tissue¹

Tumor Micro-environment²

Detailed mapping of cell-cell interactions has led to promising insight

Potential Drug Targets

Novel microglia localized near AD plaques prevent growth [Amit 2017]

Potential Prognostics

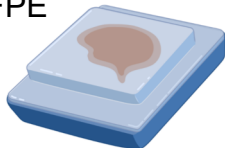
B-cell Prognostic for checkpoint blockade response in melanoma [Wargo 2018]

Prognostic protein markers for PD-1 inhibitor response in melanoma [Rimm 2019]

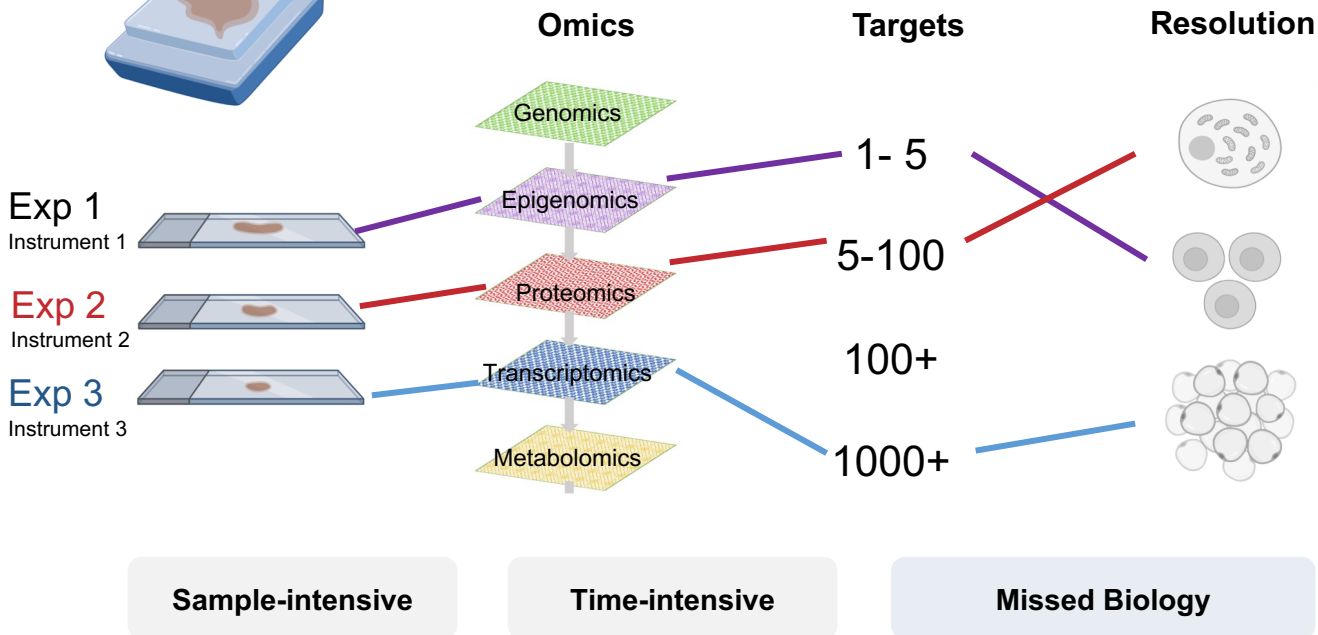
But there is no one comprehensive multi-omics spatial tool

Sample

FFPE

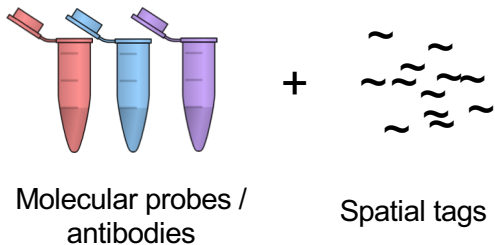


Researchers are required to make tradeoffs in resolution, targets and omics in order to build a biological story. Frequently running multiple platforms in parallel on separate sections

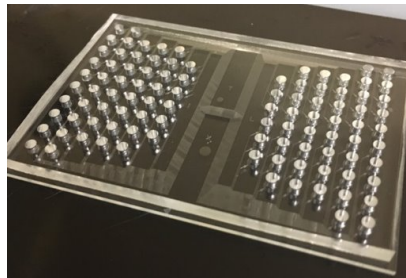


DBiT-seq: AtlasXomic's comprehensive multiomic solution

Multiomic probes are spatially tagged

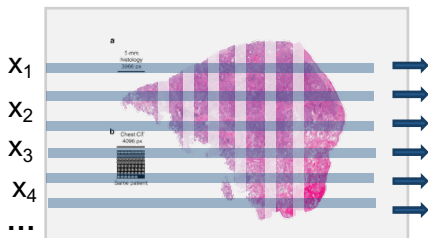


384-well microfluidics chip delivers reagents to tissue



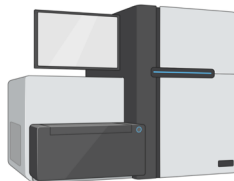
Flow barcoded probes

$y_1 \ y_2 \ y_3 \ y_4 \ \dots$



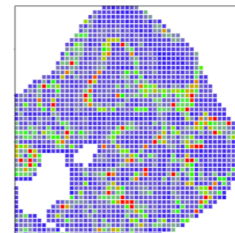
NGS sequencing

$(x_1y_1, x_1y_2 \ \dots)$

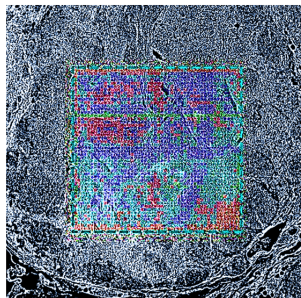


Spatial readout

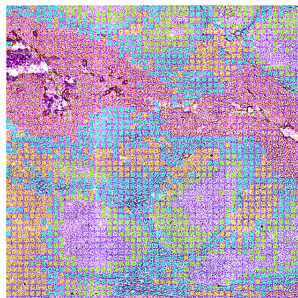
at cellular resolution



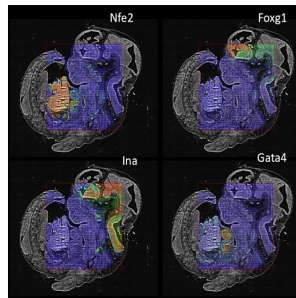
DBiT- Seq is revolutionizing the spatial omics field



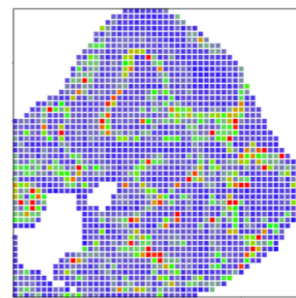
**Whole
Transcriptome**



**500-1000
Protein**



**Spatial
Epigenome**



**Spatial
Multi-Omics**

Cell

December 2020

bioRxiv
THE PREPRINT SERVER FOR BIOLOGY

March 2021

Cellular resolution

Multi-omics

Comprehensive coverage

AtlasXomics is entering a fast growing spatial omics market

"While spatial transcriptomics is still a nascent market, the technology may revolutionize life science research and grow into a market worth billions of dollars." - Forbes

Global Life Science
Research Market

\$50B

TAM: Discovery and
translational markets

\$3- 6B

Investment in Spatial
companies in last year


\$300M+

10x
GENOMICS®
Acquisitions

- Spatial Transcriptomics for \$39 million in 2018
- Cartana AB for \$41 million in 2020
- ReadCoor for \$350 million in 2020



No spatial tools currently possess our multiomic capacity

							
Cellular resolution	~	✓	~	✓	✓	✓	✓
Proteome (20+)	✓			✓	✓	✓	✓
Transcriptome (100+)	✓	✓	✓				✓
Whole Transcriptome	✓		✓				✓
Epigenome							✓
...							



*Fluorescence In Situ Hybridization

Our Plan: Build a life science tools company with optionality to create an insights business

