



ADVANCING
SCIENCE

A SPATIAL
BIOLOGY
CONFERENCE

SEPTEMBER 15, 2020

PRESENTED BY
nanoString

Plenary Speaker



Peter Sorger, PhD

Otto Kraye Professor of Systems Biology at Harvard Medical School, Head of the Harvard Program in Therapeutic Sciences (HiTS) and Director of its Laboratory of Systems Pharmacology Harvard Medical School

COVID-19 Research Speakers



Alain Borczuk, MD

Professor, Pathology and Laboratory Medicine, Weill Cornell Medicine



Z. Gordon Jiang, MD, PhD

Assistant Professor of Medicine, Beth Israel Deaconess Medical Center



Robert Schwartz, MD, PhD

Professor of Medicine, Weill Cornell Medicine



Åsa Segerstolpe, PhD

Research Scientist, Broad Institute of MIT and Harvard



David Ting, MD

Associate Clinical Director for Innovation, MGH Cancer Center Assistant Professor of Medicine, Harvard Medical School

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SPEAKERS

Spatial Genomics Research Speakers



Karin Pelka, PhD

Post-Doctoral Fellow, Broad Institute
of MIT and Harvard and Massachusetts
General Hospital (MGH)



Laura Perin, PhD

Investigator, Research Urology, Assistant
Professor of Research Surgery, Children's
Hospital Los Angeles, The Saban
Research Institute



Sargis Sedrakyan, PhD

Investigator, Research Urology
Assistant Professor of Research Surgery,
Children's Hospital Los Angeles, The
Saban Research Institute



Muh-Hwa Yang, MD, PhD

Investigator, Urology Research
Assistant Professor, National Yang
Ming University

Spatial Genomics Data Analysis Speakers



Alexander Aivazidis, PhD

Student, Wellcome Sanger Institute



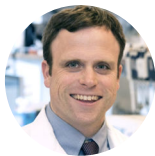
Omer Bayraktar, PhD

Appointed Cellular Genetics Group Leader
Wellcome Sanger Institute



Christina Curtis, PhD

Associate Professor, Medicine - Oncology
Associate Professor, Genetics, Stanford University



Christopher E. Mason, PhD

Associate Professor; Director, WorldQuant Initiative
for Quantitative Prediction, Weill Cornell Medicine



Ioannis Vlachos, PhD

Assistant Professor of Pathology, Beth Israel
Deaconess Medical Center

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A SPATIAL
BIOLOGY
CONFERENCE
SEPTEMBER 15, 2020

AGENDA

Advancing Science: A Spatial Biology Conference September 15, 2020 (Start Time: 11:00 am ET)	
North America (ET)	
10:00 am (ET)	DOORS OPEN
10:30 am (ET)	Exhibits Hall/Poster Viewing/Networking/GeoMx® Interactive Data Experience
11:00 am (ET)	PLENARY SESSION
	Spatial Analysis of Immune Micro-Environments In Cancer and COVID-19 Peter Sorger, PhD , Otto Krayer Professor of Systems Biology at Harvard Medical School, Head of the Harvard Program in Therapeutic Sciences (HiTS) and Director of its Laboratory of Systems Pharmacology Harvard Medical School
	Break (5 min)
11:45 am (ET)	COVID-19 RESEARCH
	Transcriptomics of SARS-CoV2 Induced Lung Injury: A Spatial Transcriptomics Approach Z. Gordon Jiang, MD, PhD , Assistant Professor of Medicine, Beth Israel Deaconess Medical Center
	COVID-19 Respiratory Distress Syndrome: Dissecting the Root Cause of Its Severity Robert Schwartz, MD, PhD , Professor of Medicine, Weill Cornell Medicine and Alain Borczuk, MD , Professor, Pathology and Laboratory Medicine, Weill Cornell Medicine
	Spatial Insights Of Lung Pathology in COVID-19 Autopsies Asa Segerstolpe, PhD , Research Scientist, Broad Institute of MIT and Harvard
	Temporal and Spatial Heterogeneity of Host Response to SARS-CoV-2 Pulmonary Infection David Ting, MD , Associate Clinical Director for Innovation, MGH Cancer Center Assistant Professor of Medicine, Harvard Medical School
	Panel Roundtable
	Break (15 min)
1:30 PM (ET)	SPATIAL GENOMICS RESEARCH
	Mechanisms of Alport Syndrome Pathogenesis Laura Perin, PhD , Investigator, Research Urology, Assistant Professor of Research Surgery, Children's Hospital Los Angeles, The Saban Research Institute and Sargis Sedrakyan, PhD , Investigator, Research Urology Assistant Professor of Research Surgery, Children's Hospital Los Angeles, The Saban Research Institute
	Cellular Elements and Spatially-Organized Immune Hubs in Colorectal Cancer Karin Pelka, PhD , Post-Doctoral Fellow, Broad Institute of MIT and Harvard and Massachusetts General Hospital (MGH)
	Spatial Evolution of Epithelial-Mesenchymal Program of Head and Neck Cancer Muh-Hwa Yang, MD, PhD , Investigator, Urology Research Assistant Professor, National Yang Ming University
	Break (15 min)

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AGENDA

Advancing Science: A Spatial Biology Conference

September 15, 2020 (Start Time: 11:00 am ET)

3:00 pm (ET)	SPATIAL GENOMICS DATA ANALYSIS
	hotgun Transcriptome and Spatial Profiling of SARS-CoV-2 Christopher E. Mason, PhD , Associate Professor; Director, WorldQuant Initiative for Quantitative Prediction, Weill Cornell Medicine
	Spatial Characterization of The Tumor-Immune Microenvironment Through Therapy in Breast Cancer Christina Curtis, PhD , Associate Professor, Medicine - Oncology Associate Professor, Genetics, Stanford University
	Whole Transcriptome in Situ Cell Atlas Reveals The Cellular Composition of The Developing Human Brain Omer Bayraktar, PhD , Appointed Cellular Genetics Group Leader Wellcome Sanger Institute and Alexander Aivazidis, PhD , Student, Wellcome Sanger Institute
	Spatial Transcriptomics and Single-Cell Integration for In-Depth Localized Tissue Interrogation Ioannis Vlachos, PhD , Assistant Professor of Pathology, Beth Israel Deaconess Medical Center
	Panel Roundtable
5:30 pm (ET)	Exhibits Hall/Poster Viewing/Networking/GeoMx® Interactive Data Experience

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POSTERS

Presenters	Title
Dan Zollinger NanoString Technologies	Molecularly guided digital spatial profiling for highly multiplexed analysis of gene expression with spatial and single cell resolution
Sarah Church NanoString Technologies	Deep Spatial Profiling of the Immune Landscape of MSI and MSS Colorectal Tumors
Yugi Ren NanoString Technologies	Genomic Characterization of Breast Cancer Heterogeneity using Breast Cancer 360™
Parick Danaher NanoString Technologies	Updating immune cell deconvolution for the spatial genomics era
Jason Reeves NanoString Technologies	Enabling pathway analysis of RNA expression in formalin-fixed paraffin embedded tissues with the GeoMx™ DSP platform
Shilah A. Bonnett NanoString Technologies	Multi-step Antibody Validation for the GeoMx® Digital Spatial Profiler
Alejandra Solache Abcam	Abcam's Recombinant RabMAb Discovery and Validation Platform
Anushka Dikshit ACD	Molecularly guided highly multiplexed digital spatial analysis reveals differential gene expression profiles in the WNT- β -catenin pathway between melanoma and prostate tumors

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