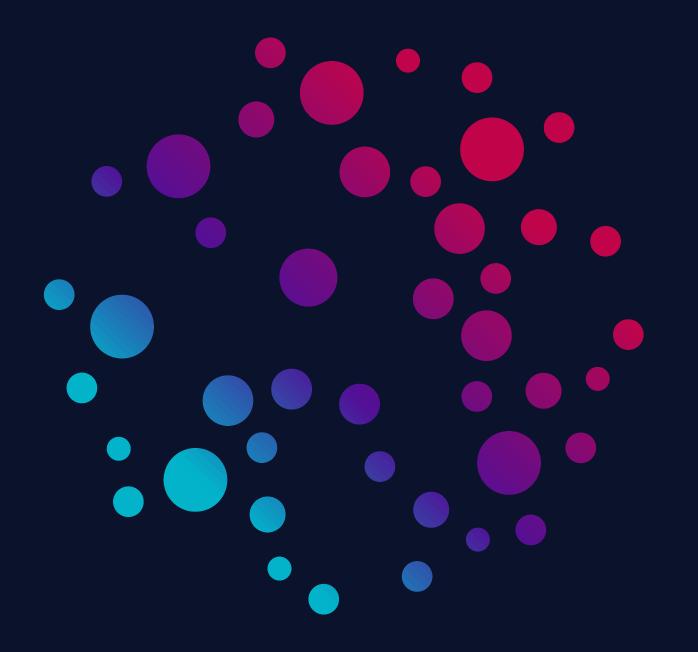


Spatial Day 2021

December 15, 2021



Disclaimer

Cautionary Note Regarding Forward-Looking Statements

This presentation includes express and implied "forward-looking statements." In some cases, you can identify forward-looking statements by terms such as " anticipate," "estimate," "expect," intend," may," might," plan," project," will," would," should," could," can," predict," potential," or the negative of these terms, and similar expressions intended to identify forward-looking statements. However, not all forward-looking statements contain these identifying words. These statements may relate to our strategic plans or objectives, revenues or earnings projections, or other financial items. By their nature, these statements are subject to numerous uncertainties, including factors beyond our control, that could cause actual results, performance or achievement to differ materially and adversely from those anticipated or implied in the statements. You should not rely upon forward-looking statements as predictions of future events.

Although our management believes that the expectations reflected in our statements are reasonable, we cannot guarantee that the future results, levels of activity, performance or events and circumstances described in the forward-looking statements will be achieved or occur. Moreover, neither we, nor any other person, assumes responsibility for the accuracy and completeness of these statements. Recipients are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date such statements are made and should not be construed as statements of fact. We undertake no obligation to update these forward-looking statements to reflect events or circumstances after the date hereof, or to reflect the occurrence of unanticipated events.

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Welcome & Introduction



Brian McKelligon

CEO, Akoya Biosciences



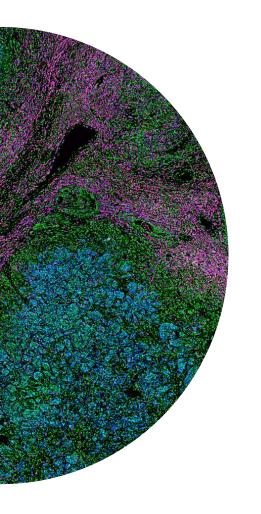
Spatial Day Agenda

Welcome & Introduction	Brian McKelligon, CEO, Akoya Biosciences
Revolutionizing Our Understanding of Disease Biology	Kai Kessenbrock, Ph.D., Principal Investigator, University of California, Irvine Robert Schreiber, Ph.D., Professor of Pathology, Washington University, St. Louis
	<u>Q&A Roundtable</u> – Hosted by Niro Ramachandran, Ph.D. , CBO, Akoya Biosciences
Changing the Standard of Care Using Spatial Biomarkers	Carl Barrett, Ph.D., VP of Translational Medicine, AstraZeneca Kurt Schalper, M.D., Ph.D., Professor of Pathology and Oncology, Yale University Michael Montalto, Ph.D., CSO, PathAl
	Q&A Roundtable – Hosted by Pascal Bamford, Ph.D. , SVP of R&D, Akoya Biosciences
The Future Direction of Akoya	Niro Ramachandran, Ph.D., CBO, Akoya Biosciences
Closing Remarks	Brian McKelligon, CEO, Akoya Biosciences
Audience Q&A	



Akoya is Leading the Spatial Biology Revolution

Transforming discovery to clinical research





Complete end-to-end solutions with instruments, reagents, software, and services



Consistent growth with recurring revenue from global installed base of > 650



Well-capitalized to drive portfolio expansion through new products and commercial development

Announcing New Spatial Biology Solutions

Key drivers for continued high growth



New spatial phenotyping solutions for increased multi-plexing and throughput

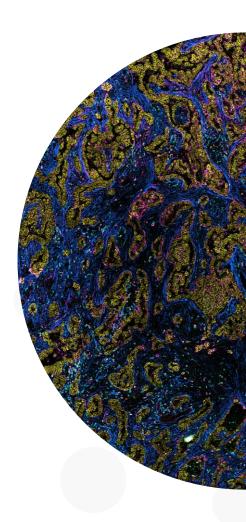


New multi-omic applications to enable spatial RNA analysis

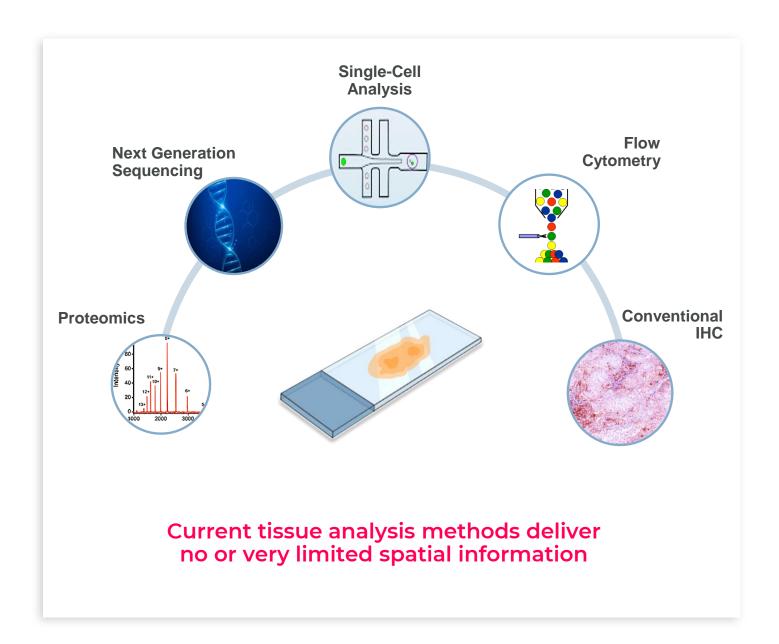


Clinical advancements

with proven robustness and workflow; continued investments and partnerships expand clinical impact

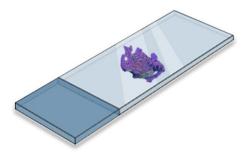


Current Tissue Analysis Methods Migrate to Spatial





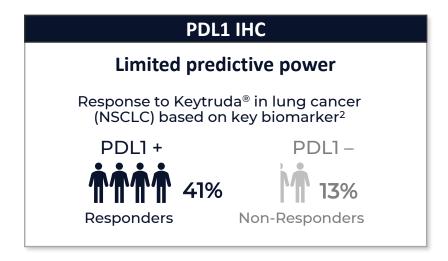
Spatial Phenotyping



Understanding biomarkers in tissue context

Significant Unmet Medical Need in Immunotherapy

JAMA publication highlights spatial phenotyping as a superior approach¹

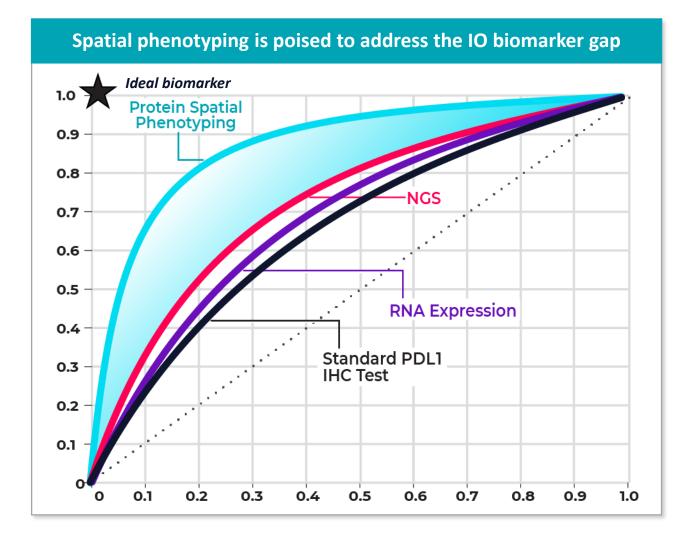


RNA Expression

Limited predictive power

TMB / MSI NGS

Limited predictive power

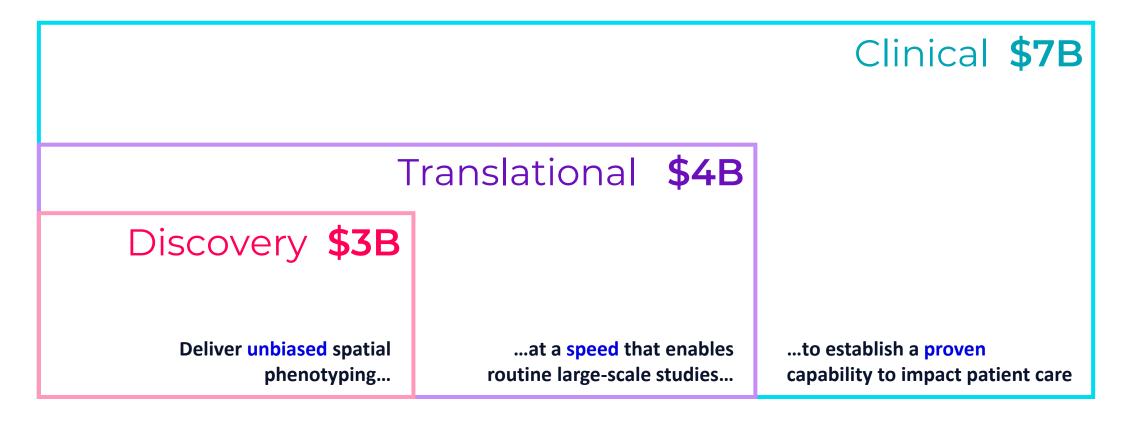


¹Lu S, Stein JE, Rimm DL, et al, JAMA Oncology 2019;5(8):1195–1204



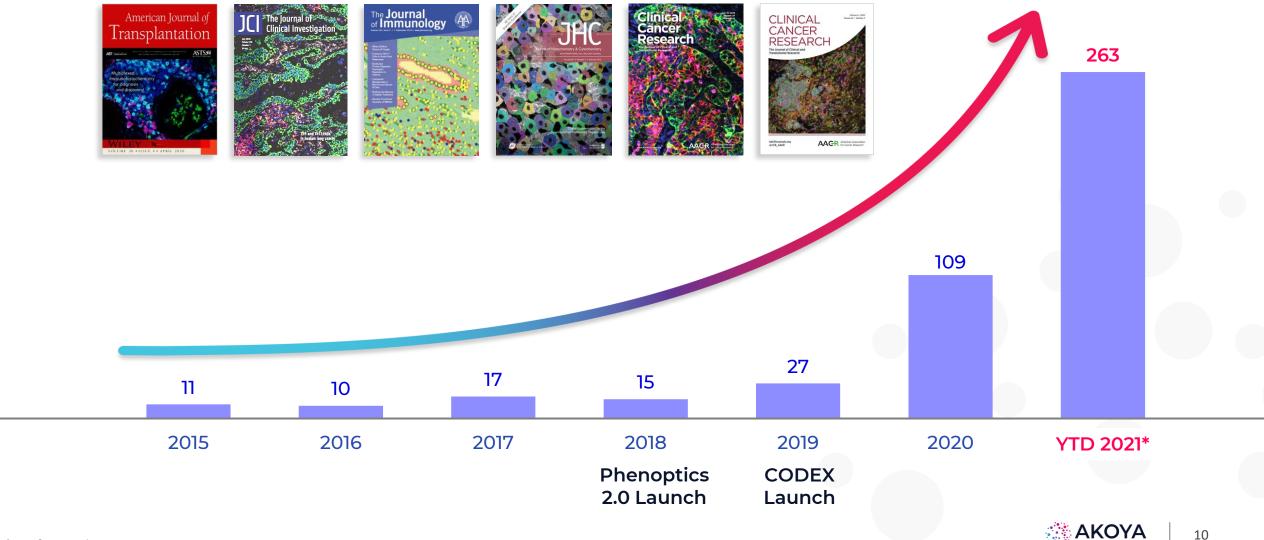


Immediate Opportunity in Discovery and Translational Markets with Clinical Rapidly Emerging



Meeting customer and market segment requirements drives market expansion

Accelerating & Market Leading Publication Volume



Akoya's Current Spatial Phenotyping Platforms

Discovery

Translational

Clinical

Unbiased and high-parameter via in-situ reagent delivery





AMOVA SEC

CODEX

Phenoptics

of Markers per run

of Samples per day

New Instrument and Workflow Solutions Drive Growth

Accelerating the discovery and validation of spatial biomarkers

Discovery

Translational

Unbiased tissue analysis at single cell, whole slide and high resolution

Increased throughput and plex delivering scale and speed

Expanding menu of applications and multi-omic capabilities



Advancing Akoya's First Mover Advantage

Translating discoveries to the clinic and building the foundations for diagnostics

Translational

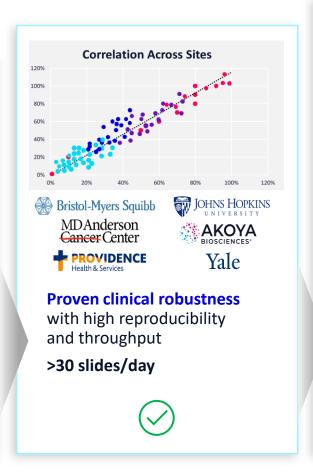




Solutions to enable rapid and seamless biomarker validation

Spatial Biomarkers

















and many more...

Partnerships to establish clinical use

Advanced Biopharma Solutions in clinical trials

KOLs establish clinical evidence

AI maximizes platform predictive power



Akoya Biosciences - The Spatial Biology Company

Discovery Translational Clinical

Delivering unbiased spatial phenotyping, at a speed that enables routine large-scale studies, and establishing a proven capability to impact patient care in order to address a significant unmet medical need.



Complete end-to-end solutions



Rapidly increasing high-impact publications



New spatial phenotyping solutions and applications



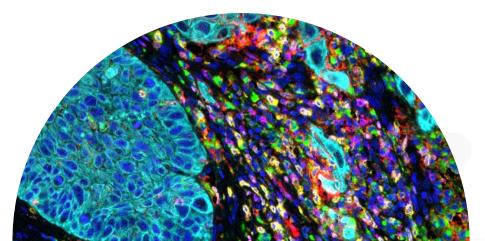
Consistent growth with recurring revenue



Advancing clinical impact



Well-capitalized to drive portfolio expansion





Revolutionizing Our Understanding of Disease Biology



Niro Ramachandran, Ph.D.

CBO, Akoya Biosciences



Revolutionizing Our Understanding of Disease Biology



Kai Kessenbrock, Ph.D.

Principal Investigator, University of California, Irvine



Revolutionizing Our Understanding of Disease Biology



Robert Schreiber, Ph.D.

Professor of Pathology, Washington University St. Louis

Washington University in St. Louis

Q&A Roundtable



Niro Ramachandran, Ph.D. CBO, Akoya Biosciences



Kai Kessenbrock, Ph.D.

Principal Investigator, University of California, Irvine



Robert Schreiber, Ph.D.

Professor of Pathology, Washington University,
St. Louis





Pascal Bamford, Ph.D. SVP of R&D, Akoya Biosciences





Carl Barrett, Ph.D.

VP of Oncology & Translational Science, AstraZeneca





Kurt Schalper, M.D., Ph.D.

Professor of Pathology & Oncology, Yale University

Yale



Michael Montalto, Ph.D. CSO, PathAl



Q&A Roundtable

Pascal Bamford, Ph.D.

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The Future Direction of Akoya

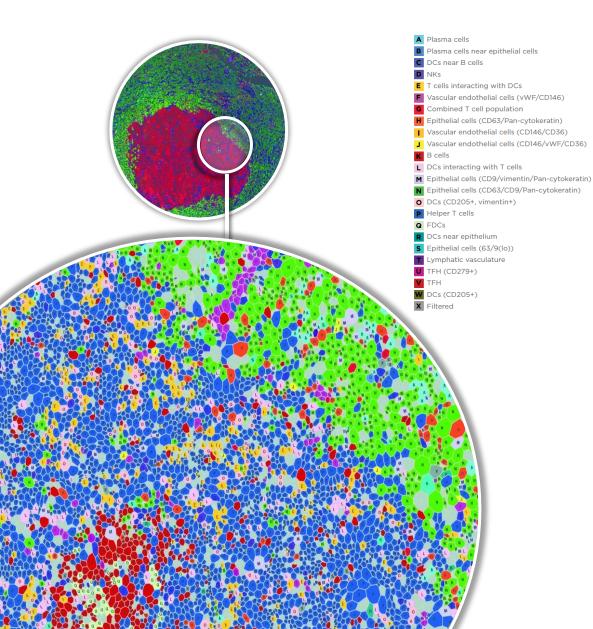


Niro Ramachandran, Ph.D.

CBO, Akoya Biosciences



Spatial Phenotyping: Transforming Tissue Biology



Spatial phenotyping is **identifying every cell** within the tissue microenvironment

Spatial phenotyping requires every cell to be analyzed across the **entire tissue section**

Spatial phenotyping will reveal cell-cell interactions, cellular neighborhoods, rare cell types and predictive spatial signatures

Spatial Applications Defined



Spatial Functional State

Reveal functional spatial biology with multi-omic RNA & protein expression mapping



Rare-cell discovery

Every cell matters. Discover novel phenotypes / contextual phenotypes across the whole slide



Discover how spatial neighbors self-organize to drive tissue biology



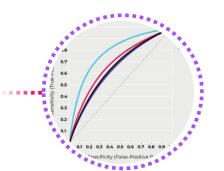
Phenotyping

Identify cells in-situ with single cell resolution





Spatial Phenotyping



Spatial Signatures

Signature spatial events that correlate with clinical outcomes





Suite of Solutions Provide Spatial Phenotyping at Any Scale

Discovery

Translational

Clinical

Simplest Cycling Platform



CODEX

PHENOCYCLER

Highest Throughput Imaging Platform



Phenoptics [Polaris]

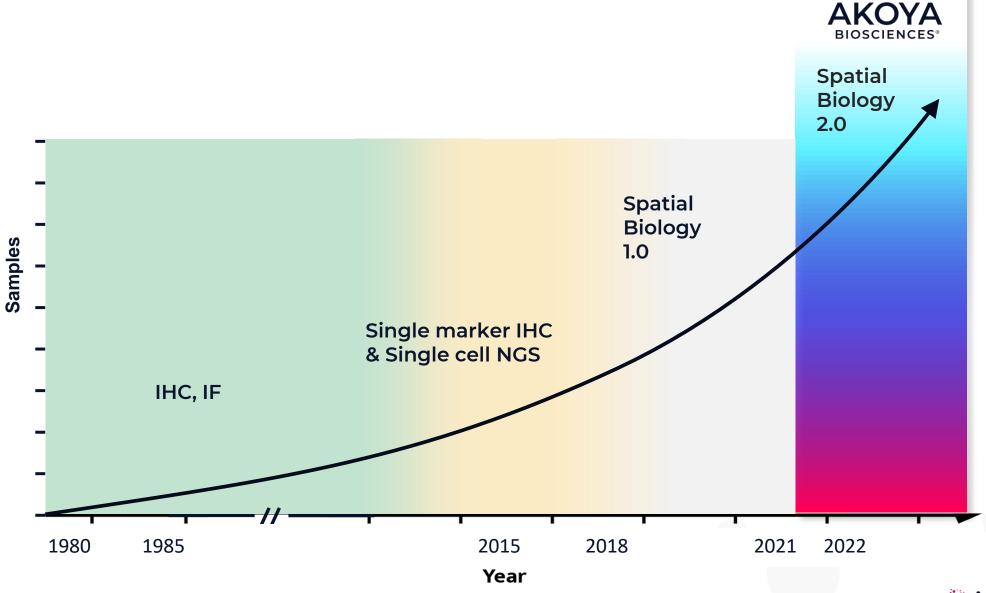
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Spatial Biology 2.0



Discovery Translational Clinical

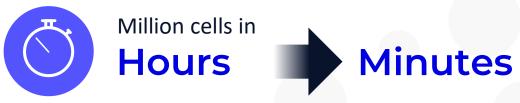
Spatial Biology 2.0



Spatial Biology 2.0 Driven by Speed







Introducing:

The PhenoCycler-Fusion System

The FASTEST, MULTI-OMIC, SINGLE-CELL spatial biology solution



SPATIAL BIOLOGY NOW HAS A PASSING LANE

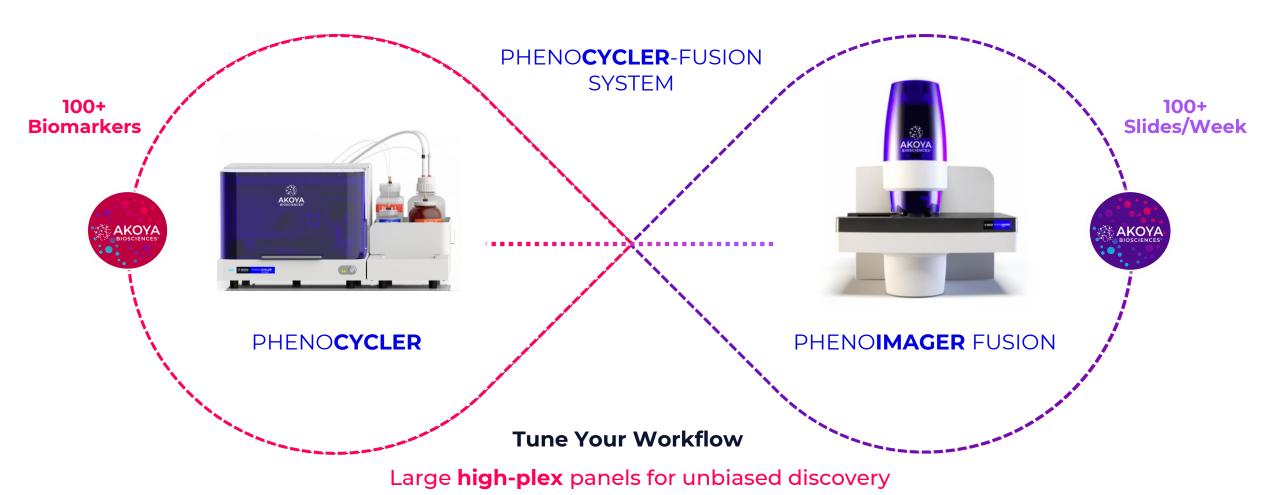
Map 1-million cells in just 10 minutes

Limited shipments in 2021 Full commercial launch in January 2022



World's First Integrated Spatial Biology Solution

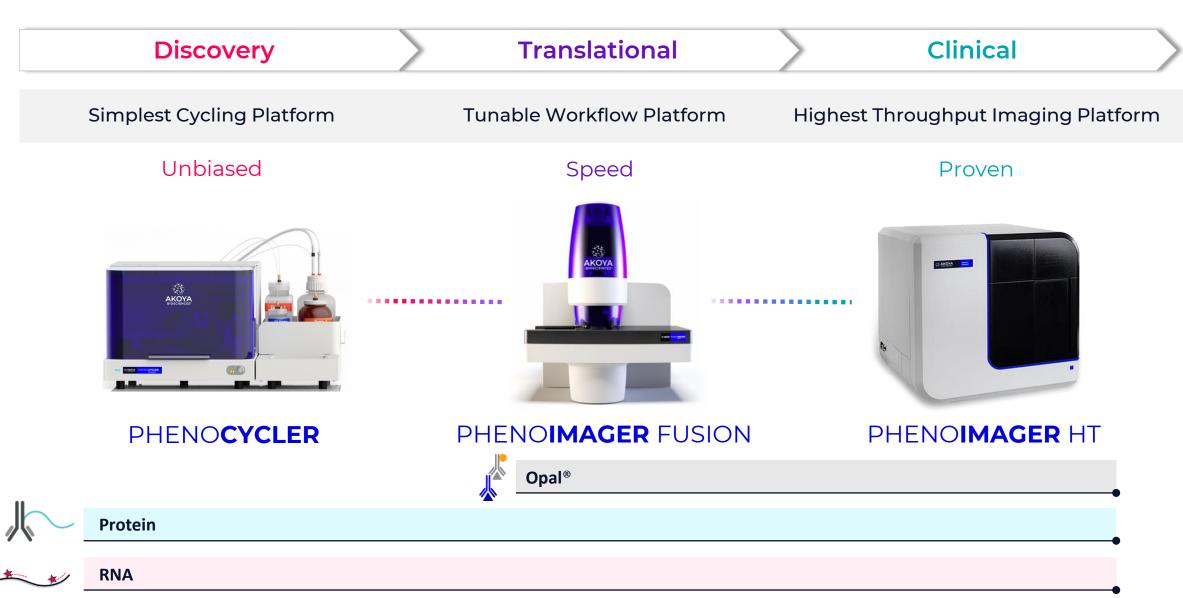
Flexible & scalable to meet your needs of tomorrow



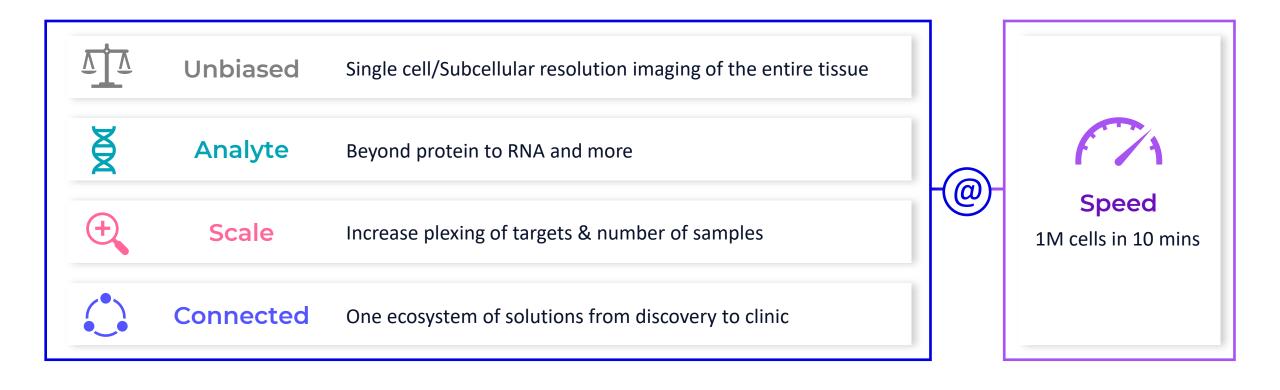
Focused panels in high-throughput for translational research

AKOYA BIOSCIENCES®

A Solution For Every User: Any Target, Any Scale



Akoya's Technology Stack Will Transform the Pace of Spatial Biology Research



Closing Remarks

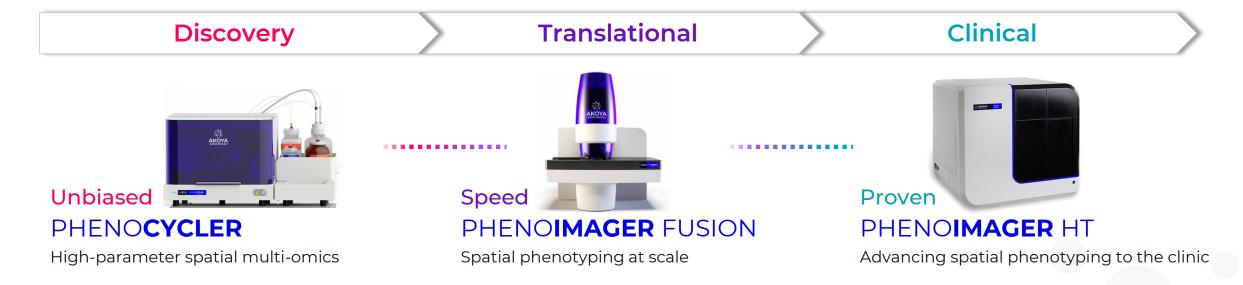


Brian McKelligon

CEO, Akoya Biosciences



Summary: Akoya Spatial Day 2021





Complete end-to-end solutions

with instruments, reagents, software, and services



New spatial phenotyping solutions and applications

for increased throughput, multi-plexing and multi-omics



Advancing clinical impact

with proven robustness, workflow and partnerships



Rapidly increasing high-impact publications

with ~450 to date, 370 in '20 and '21



Consistent growth with recurring revenue

from global installed base of > 650



Well-capitalized to drive portfolio expansion

through new products and commercial development

Catalyzing Discovery and Improving Patient Care



