



43rd Annual J.P. Morgan Healthcare Conference

Molly He, PhD
CEO & Co-Founder

2024: A Year of Breakthroughs Powered by Innovations

\$277M
Series D

>50

Products*

>160

Publications*

>500

Patents and
patent
applications*

* cumulative



Promised, Delivered: 2024 More Than Doubled 2023

Approx.
\$60M
2024
Estimated
Revenue

YoY Growth:

Revenue: **2.4X**
Total # of products: **2.2X**
Cumulative Install Base: **>2.4X**
Connected Runs: **>6X**



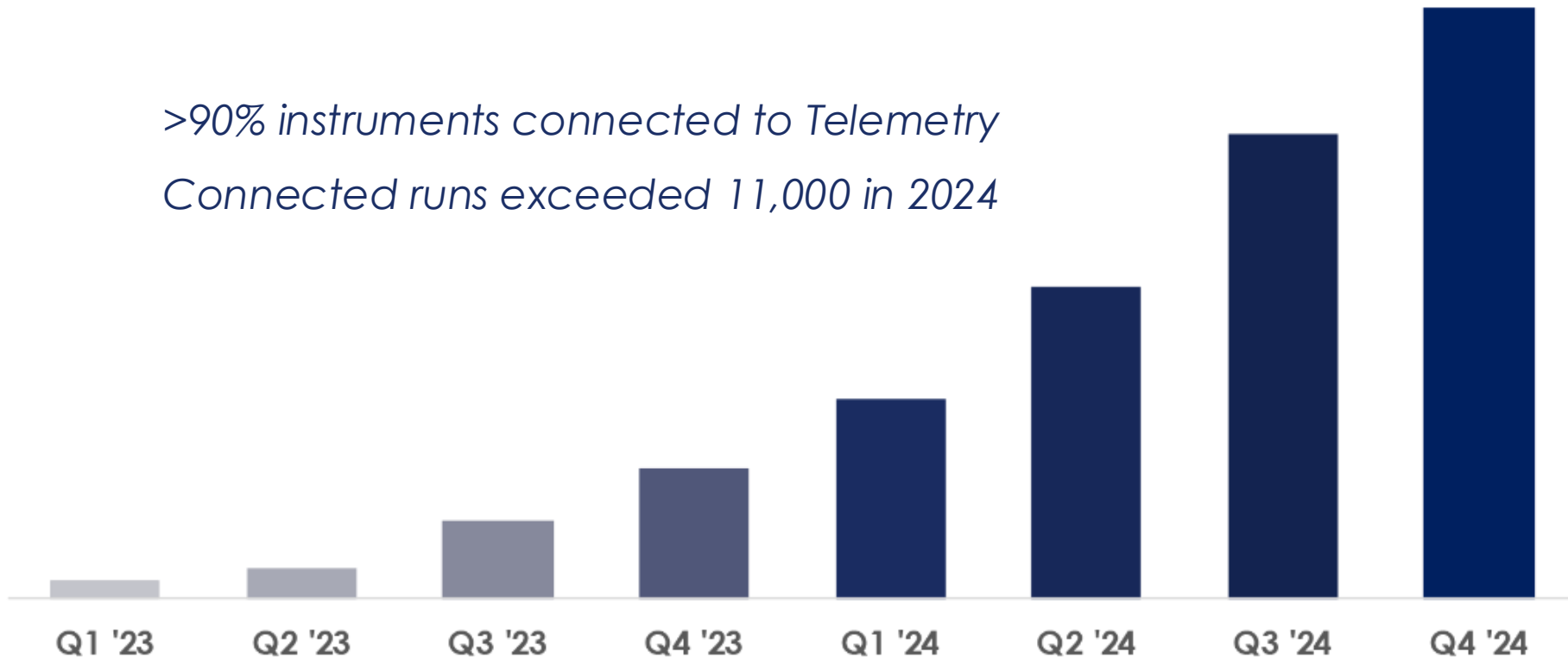
Strong Consumable Growth

Outpacing the growth rate of instruments

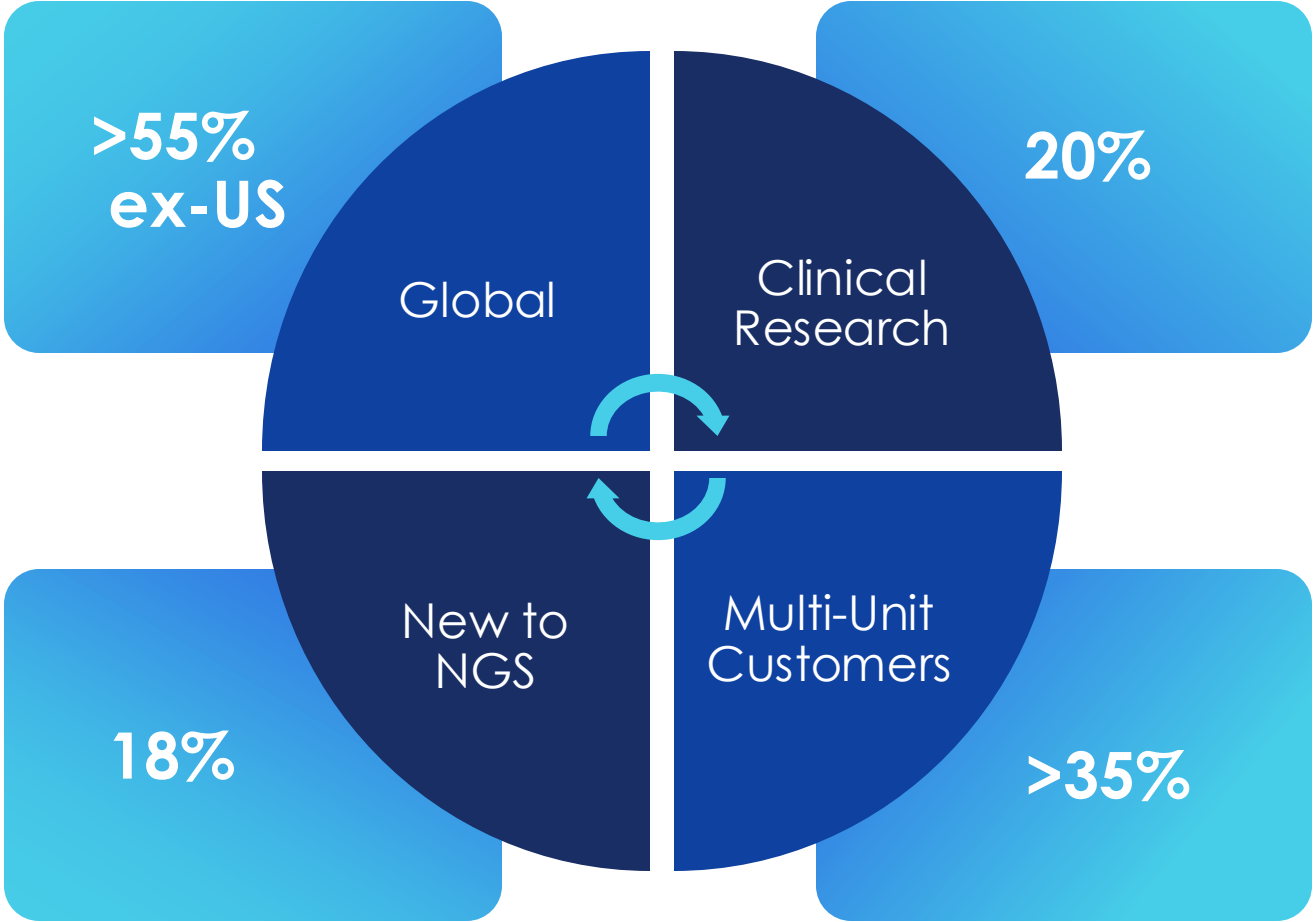
>6x Customer Runs Completed Year Over Year

>90% instruments connected to Telemetry

Connected runs exceeded 11,000 in 2024

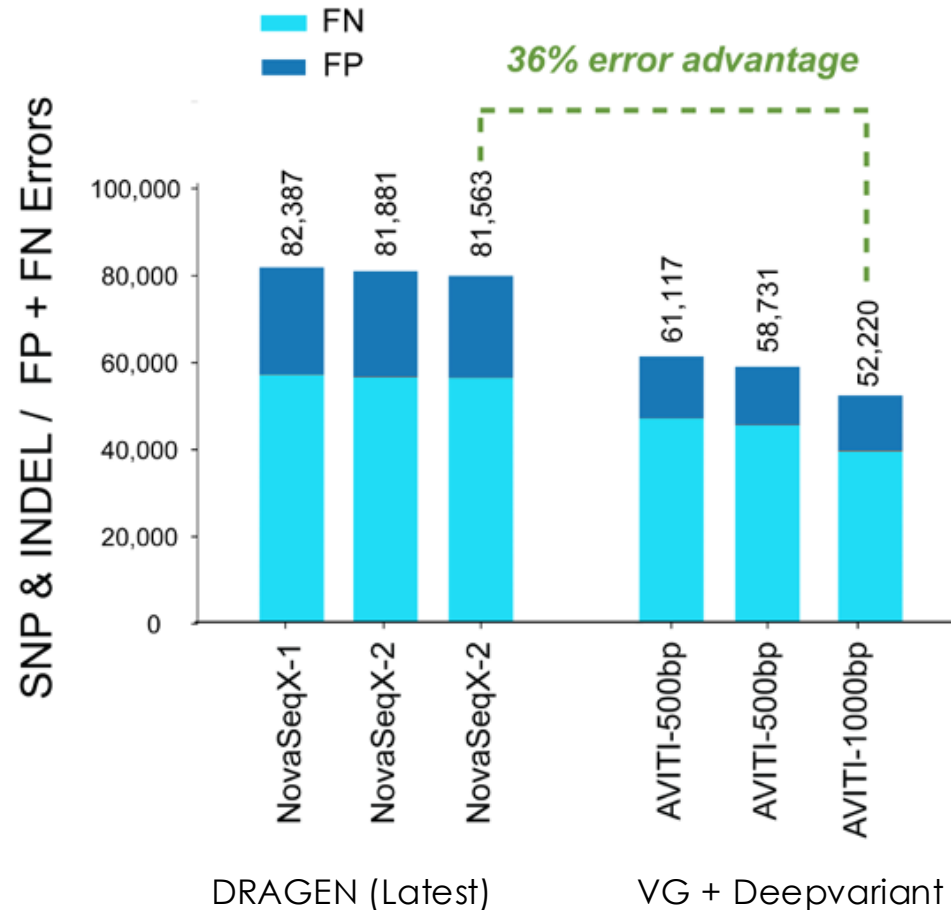


Where Does Element Win?



Numbers reflects bookings for 2024

AVITI Outperforms NovaSeqX + Dragen 4.3 on Latest NIST Q100 Truth Set



*Novaseq data were released publicly

Enablers

Human telomere-to-telomere genome Q100 project

Pangenome-aware DeepVariant

Variation graph data structures, interchange formats, alignment, genotyping, and variant calling methods

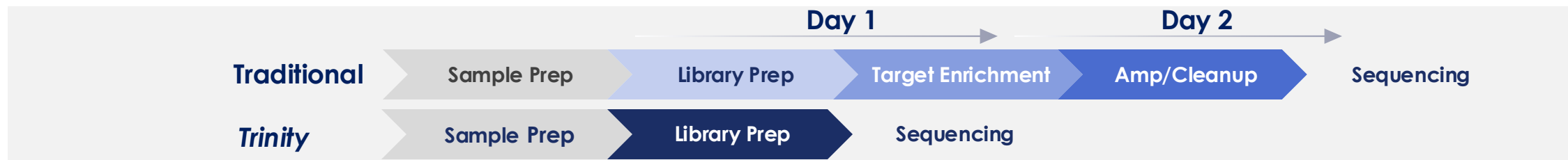


GPU-Accelerated with Parabricks

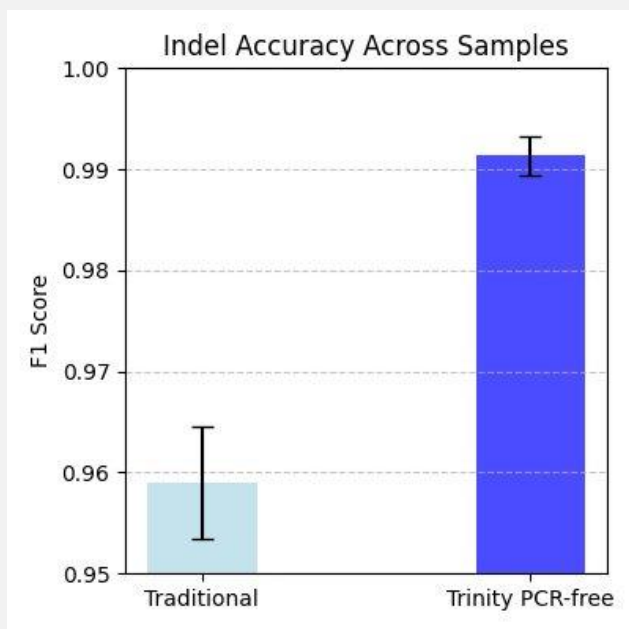
New Q100 truth set has been released as a “draft” version with final release planned early Q1

Trinity is Well-Positioned for Clinical and Translational Research Applications

Integrated targeted sequencing significantly simplifies workflow and improves performance



Improves indel accuracy in Exome



“That’s very impressive. I’ve never seen an exome indel of 0.99”.

—Andrew Carroll,
DeepVariant team
at Google

Supports exome and custom panels

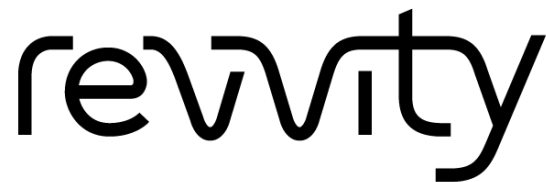


A 7,901-probe custom somatic oncology panel showed Trinity has a higher on-target rate and can detect minor allele frequencies down to 0.5%.

—Early access customer study

AVITI Going Dx

Collaboration with Revvity on Newborn Screening (NBS)



Pursuing IVD approval in major global markets



- NBS market: ~\$1bn in 2023
- 6-8% CAGR over next 10 years
- Revvity is a global leader in NBS

AVITI Dx to enable additional application markets

Element Advancing Proteomics Through Collaboration with Alamar

Enabling High Throughput Precision Proteomics with Complementary Solutions



Commercial teams working together offer a fully validated bundled solution designed to lower barriers to entry.

Leveraging each others' sales channels to broaden accessibility.

AVITI24: Leading a Revolution

The first and only integrated single cell multi-omic platform solution

First customer ship: December 2024

15

Installed

~60%

New to Element

10X higher

% in **top pharma** vs. AVITI

**AVITI24 unlocks new markets and
new growth trajectory**



What is AVITI24?

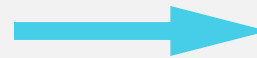
AVITI: don't replace, EVOLVE

AVITI



DNA Sequencing

Software and
Hardware
Upgrades



Integrated AI
with greater
processing
power

AVITI24



DNA Sequencing with up to 50% higher output



Integrated, **library prep-free** single-cell multi-omic

AVITI24: The First and Only Integrated Single Cell Multi-omic System

The Quantum Change

>5X larger

imageable area per run vs industry average

3X more

morphology markers

>2 days prep savings

hands-on prep time

1 – 13+ days run savings

imaging & primary analysis time*

* 5 – 65+ days savings if normalized for output

Uniquely co-detects within the same biological samples
- offering both temporal and spatial information in a
rapid, scalable, and affordable manner

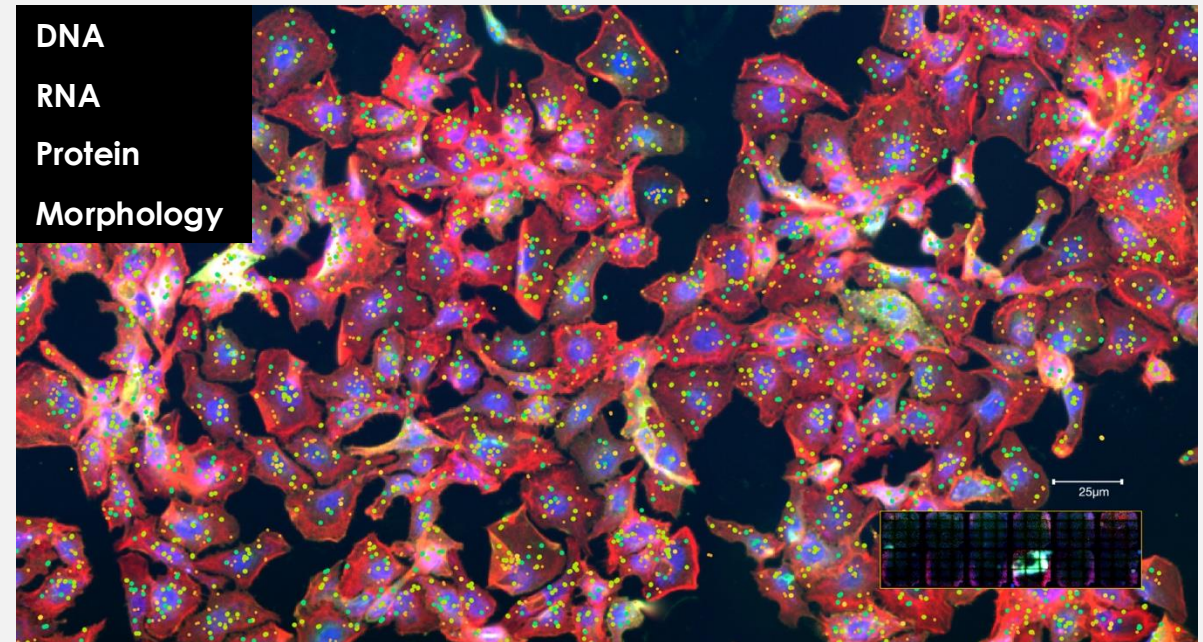


Image courtesy of Kenny Beckman, Ph.D.
Director, University of Minnesota Genomics Center (UMGC)

How Our Early Customers are Using AVITI24

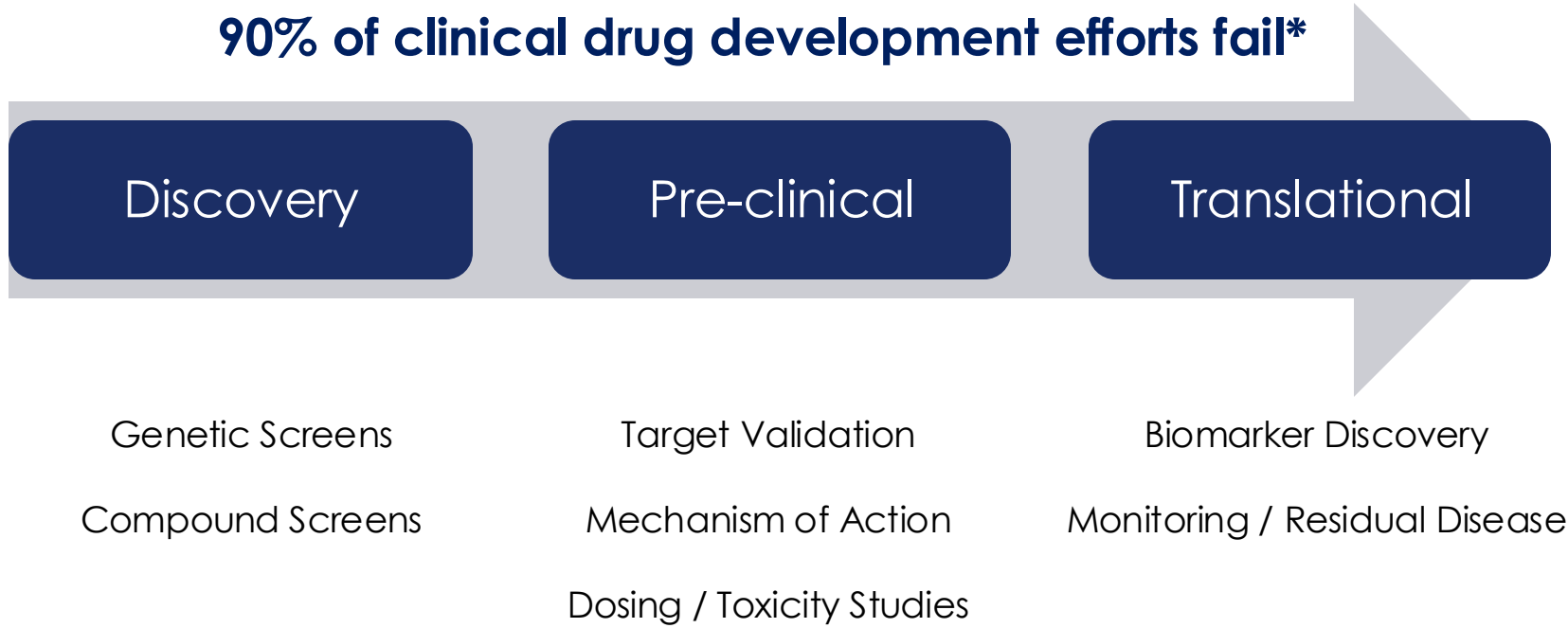
From basic research to drug development

Basic Research

- Tumorigenesis
- Anti-Tumor Immunity
- Tumor Microenvironment
- Immuno-phenotyping
- CAR-T Development
- Immunogenicity

Drug Development

90% of clinical drug development efforts fail*

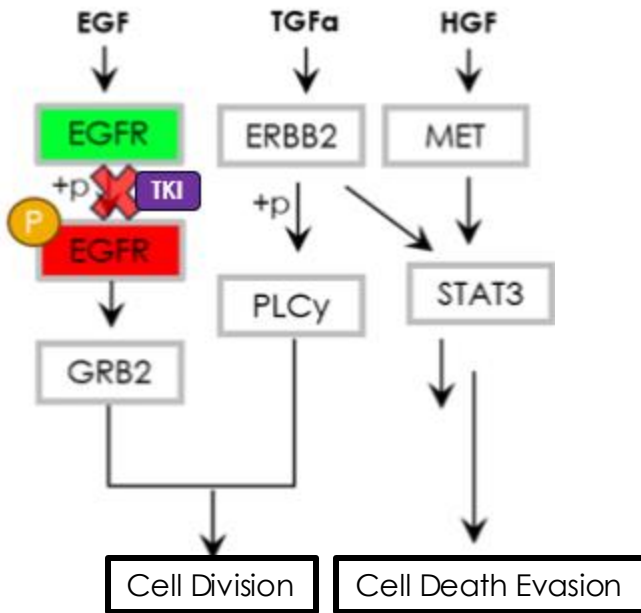


AVITI24 = large scale, multi-dimensional data - faster, better, cheaper

Multi-Drug, Multi-Timepoint Study in a Single 24-Hour Run

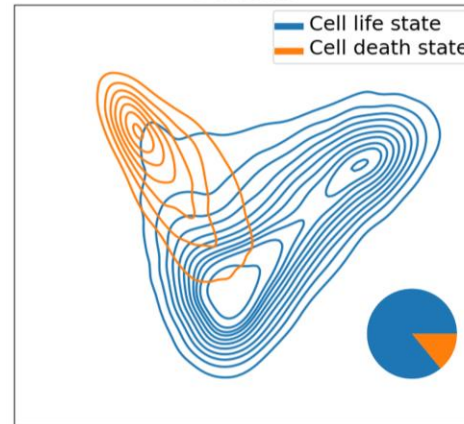
Non-small cell lung cancer drug study shows new insights

Experimental Setup

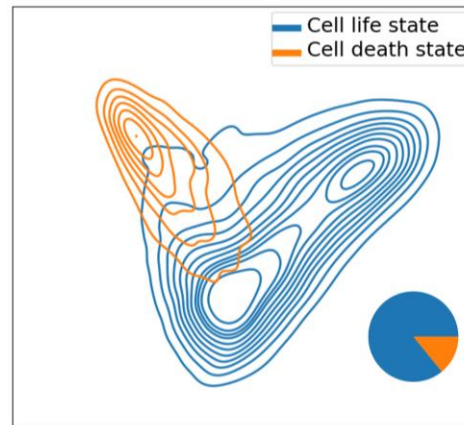


Cell Classifications

1st Generation TKI : Gefitinib
0 minutes



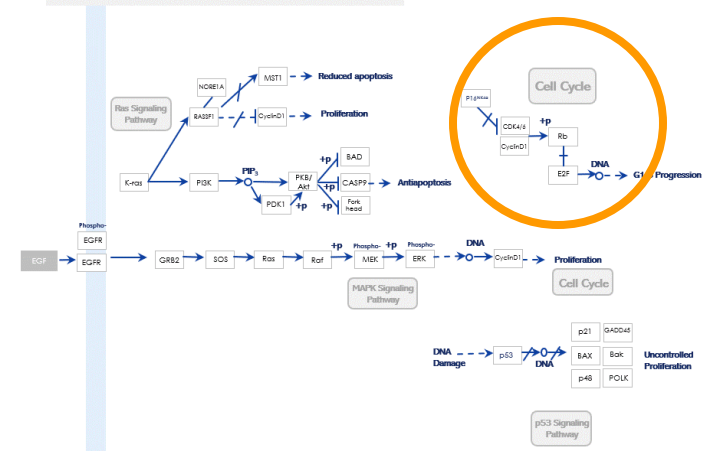
3rd Generation TKI : Osimertinib
0 minutes



Mechanism of Action Over Time

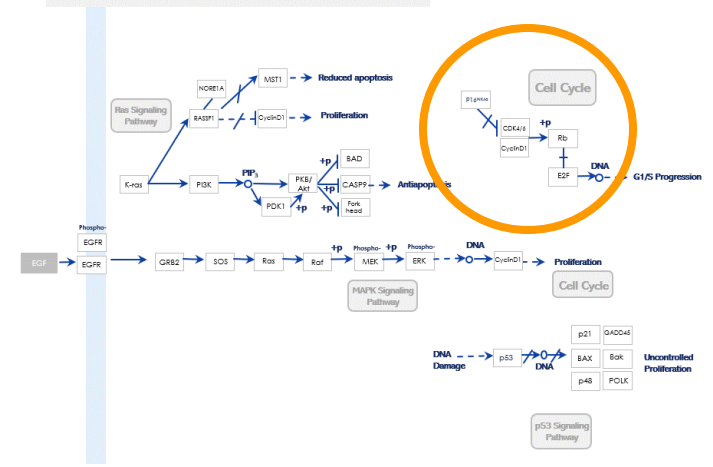
1st Generation TKI: Gefitinib

Time = 0 mins

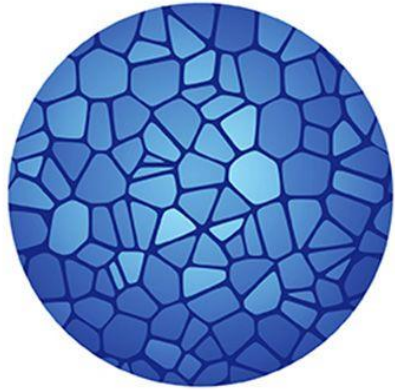


3rd Generation TKI: Osimertinib

Time = 0 mins



Element is Now a Commercial Partner of Human Cell Atlas Consortium



**HUMAN
CELL
ATLAS**

- Global initiative to categorize the 37 trillion cells in the human body
- More than 3,800 members, from over 2,000 institutes and 104 countries around the world
- As of 2024, project has mapped approximately 100 million human cells into 18 biological networks

We are excited to play an important role in accelerating the pace and scale of cell biology research through AVITI24's ever-expanding innovations and product menu

Just Getting Started: What's Coming on AVITI24 in 2025

A few examples of a rich portfolio, all on the same system

Proteins:

- High Plex
- FULLY CUSTOMIZABLE
- With cell paint

RNAs:

- Library-free whole transcriptome at subcellular resolution directly from the biological samples
- With cell paint and proteins

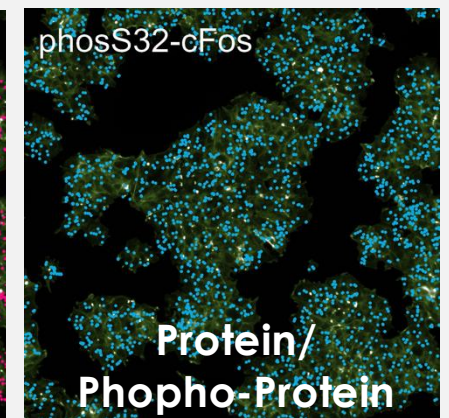
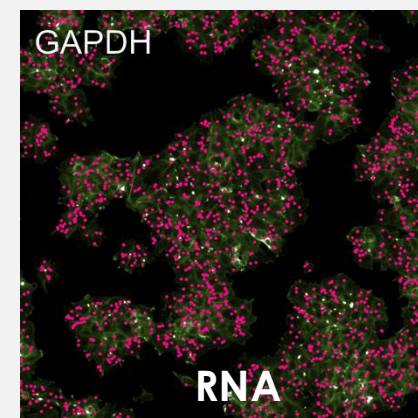
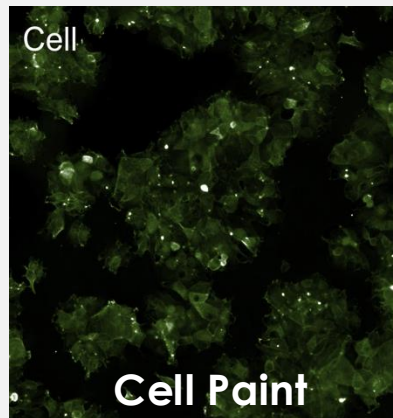
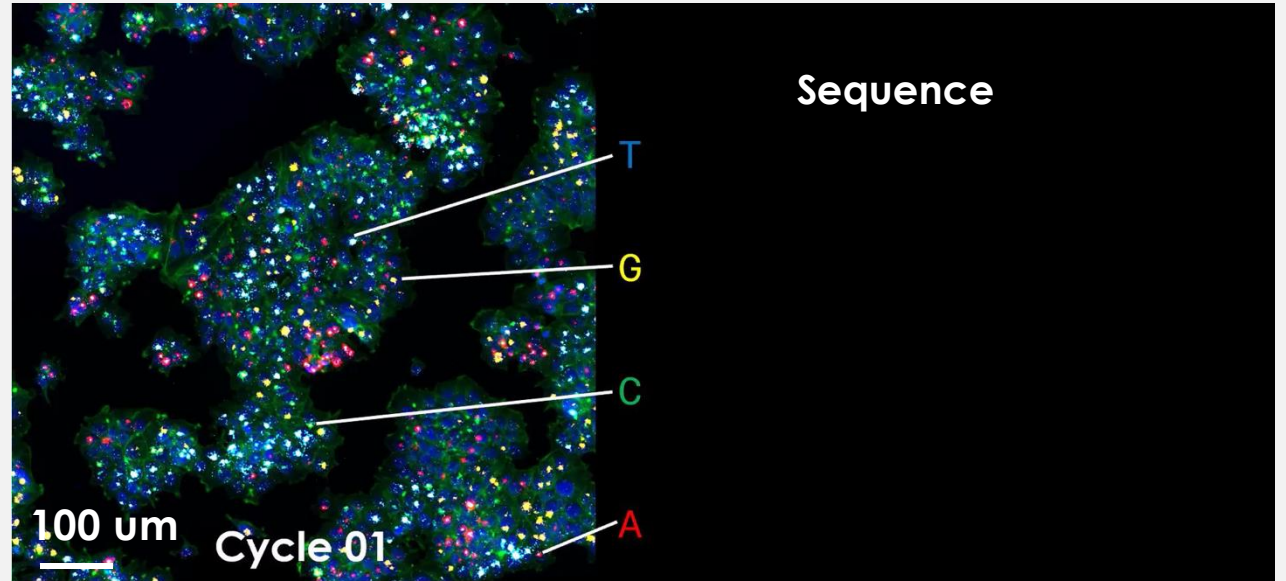
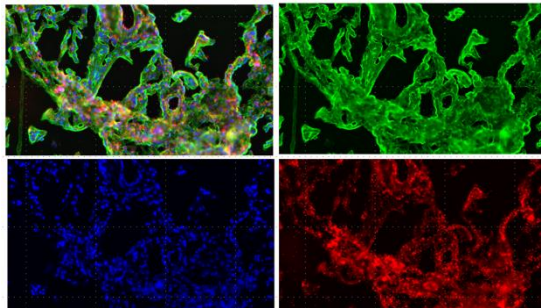
Sample Types:

- Expand beyond cell lines and cell cultures

Sample from:

Nicholas Banovich, Ph.D.
Associate Professor and
Director Bioinnovation and
Genome Sciences Division

TGEN





AVIT124 INNOVATION
ROADMAP



High Dimensional Biology Unlocked

/WEBINAR

/FEB 20, 2025

/9:00AM PST



Looking Forward to a Rapidly Growing Year of 2025

Commercial Acceleration

Achieve \$100M in topline revenue

Product Excellence

Launch 10 new products, expand platform offerings

New Market Creation

Positioned to enter Dx and therapeutics markets with differentiated products



Element
Biosciences