Bringing the AVITI to the MSU Genomics Core

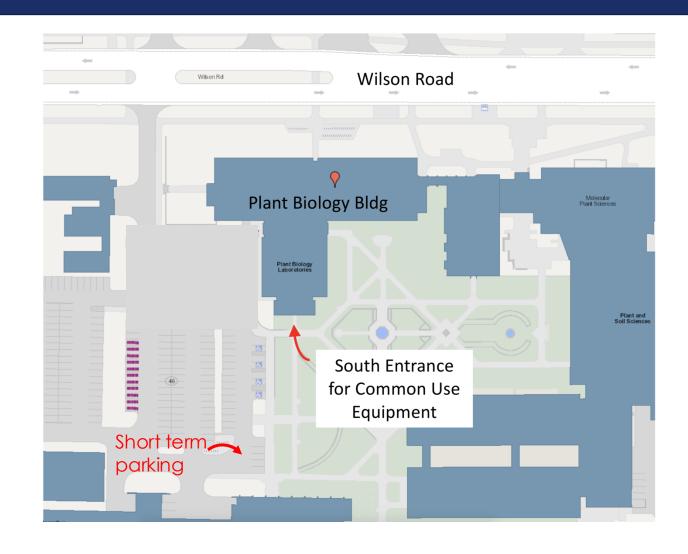
Kevin Childs

Director MSU Genomics Core Assistant Professor Fixed Term – Plant Biology 9 October 2024

Genomics Core – Where are we?

Plant Biology Building \$18 and \$20 (in the basement)

Sample drop off in the refrigerator in the hallway outside the lab



Genomics Core – Who we are?

Operations Manager

Emily Crisovan

Research Assistants

- Shari Tjugum-Holland
- Colleen Curry
- Krystle Wiegert-Rininger
- Justin Nummer
- Mercy Kitavi, Ph.D.

Data Management Specialist

Kevin Carr



Services Overview

- Short-read sequencing libraries
 - DNA-seq, RNA-seq
 - 16S V4 & custom amplicans
 - Single cell RNA-seq
 - Researcher-prepared libraries
- Nanopore long-read sequencing
- Sanger sequencing

Michigan State University GENOMICS CORE

Short-Read Library + **AVITI** Sequencing

RNAsea library + 25 M reads \$131 \$157 RNAseg library + 35 M reads DNAsea library + 3 Gbp \$76 \$765 DNAseq library + 96 Gbp

Short-Read Library Only

DNA library as low as \$50 Methyl-sea DNA library as low as \$166 RNA library as low as \$65 RNA library w/ rRNA as low as \$74 depletion (user supplies depletion kit)

10X Genomics Chromium

Single Cell Libraries Contact Us

AVITI Sequencing

\$1181 500M 2x75 reads \$1408 1000M 2x75 reads \$2089 1000M 2x150 reads \$2089 100M 2x300 reads

NovaSea Sequencing

SP 362M 1x100 reads \$1729 SP 362M 2x150 reads \$2463 S4 2250M 2x150 reads \$5953 \$694 S4-shared 200M 2x150 reads

MiSeq Sequencing

V2 Nano up to 1M 2x150 reads \$604 V2 Std 8-10M 2x150 reads \$1610 V2 Std 8-10M 2x250 reads \$1751

Visit us online at https://cl.gy/xLWoB Sample Drop-off Plant Biology Bldg

New AVITI Short-Read Sequencing by Element Biosciences

> Write to us at gtsf@msu.edu

Zoom Office Hour 3 PM Daily https://cl.gy/tAmyA

16S V4 & Amplicon **Barcoding Libraries**

\$5.50/sample plus \$207 per plate

Nanopore Long Reads

DNA ligation library* \$787 DNA rapid barcoding \$472 Direct RNA library \$559 cDNA-PCR library* \$616 GridION flow cell \$899 \$1095 PromethION flow cell *barcoding available

Sanger Sequencing

\$3.50 - \$7.00 Standard reactions High throughput rxns

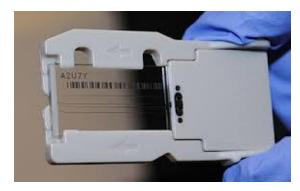
Self-Service Instruments

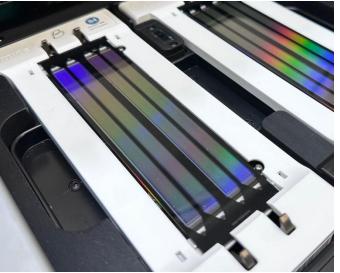
Qubit - DNA/RNA Quantification Covaris - DNA Shearing w/ Sonication

Prices current as of September 2024. See more pricing information online. https://cl.gy/PbIWY

Past Illumina Sequencing Instruments in the Genomics Core

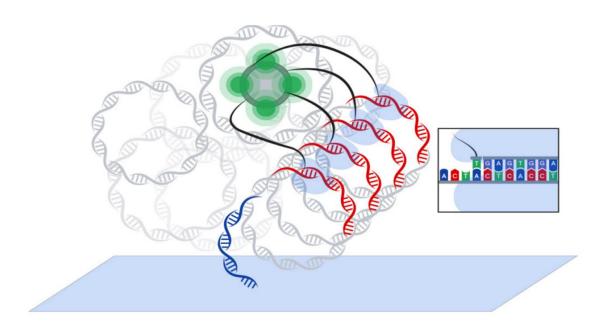
- Genome Analyzer
- Genome Analyzer II
- MiSeqs
- HiSeq 2500
- HiSeq 4000 & NextSeq 500
- NovaSeq 6000
- NovaSeq X





Rationale for an AVITI

- Illumina-style libraries
- Fastq output files
- Regular analysis pipelines
- Flow cell pricing
- Smaller flow cells
- Very low duplication rate
- Increased accuracy
- Instrument & service contract costs



AVITI Flow Cells

Read Format	Capacity	Read Pairs	Gbp	Cost	Cost per Gbp
2 x 75 bp	Medium	500 M	75	\$1,181	
2 x 75 bp	High	1,000 M	150	\$1,408	
2 x 150 bp	Low	250 M	75	\$1,181	
2 x 150 bp	Medium	500 M	150	\$1,408	
2 x 150 bp	High	1,000 M	300	\$2,089	
2 x 300 bp	Medium	100 M	60	\$2,089	
2 x 300 bp	High	300 M	180	\$2,950	

AVITI Flow Cells

Read Format	Capacity	Read Pairs	Gbp	Cost	Cost per Gbp
2 x 75 bp	Medium	500 M	75	\$1,181	\$15.75
2 x 75 bp	High	1,000 M	150	\$1,408	\$9.39
2 x 150 bp	Low	250 M	75	\$1,181	\$15.75
2 x 150 bp	Medium	500 M	150	\$1,408	\$9.39
2 x 150 bp	High	1,000 M	300	\$2,089	\$6.96
2 x 300 bp	Medium	100 M	60	\$2,089	\$34.82
2 x 300 bp	High	300 M	180	\$2,950	\$16.39

Easy-Peasy Pricing

- Bundled flat-rate pricing
- Library + fixed amount of sequencing
- Run on shared high-output
 2 x 150 bp lane
- Similar to shared NovaSeq
 S4 lane but cheaper

Michigan State University GENOMICS CORE



RNAseq library + 25 M reads \$131 RNAseq library + 35 M reads \$157 DNAseq library + 3 Gbp \$76 DNAseq library + 96 Gbp \$765 New AVITI Short–Read
Sequencing
by Element Biosciences

Write to us at gtsf@msu.edu

AVITI Flow Cell Grant

- Abstract about your proposed sequencing project (250 words)
- One high output 2 x 150 bp flow cell or one high output 2 x 300 bp flow cell
- Does not include library preparation
- Two winners
- Submit before November 8, 2024



https://go.elementbiosciences.com/MSUgrant

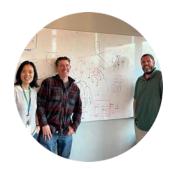


Novel Developments in NGS; Unlocking Further Insights with AVITI

Anthony Popkie, Ph.D. Executive Account Manager anthony.popkie@elembio.com



Our journey to empower science



Element is founded by Molly He, Michael Previte and Matt Kellinger, three scientists seeking to disrupt genomics by reinventing every "element" of sequencing

JULY 2017



Company announces Series A financing led by Foresite Capital and Venrock

JUNE 2019



Element closes acquisition of Loop Genomics, enabling both short and long-read sequencing on the same desktop machine

FEBRUARY 2022



Element opens new headquarters of Alexandria Tech Center in San Diego

MAY 2022



Element announces first set of global distributors, showing strong demand for AVITI around the world

APRIL 2023

MAY 2019

Element invents Avidity Sequencing, enabling high accuracy with low reagent consumption



JUNE 2021

Element closes \$276M Series C financing to deliver on the promise of disruptive sequencing



MARCH 2022

Element launches AVITI, making affordable, high-quality sequencing a reality for labs of all sizes



JANUARY 2023

Element announces the \$200 genome on AVITI, delivering the highest quality sequencing at an unprecedented low cost



JUNE 2023

Element launches new Cloudbreak chemistry, advancing Avidity with even faster runtimes



Re-imagining what is possible on a benchtop sequencing platform

Where We Started:
Best in Class Sequencing

Q30 → Q50

Affordability \$200 genome on a benchtop

Reliability MTBF > 160 days

*Mean time between failure

300+ 30+ 10k+
Installs Countries Runs/Year (and counting!)



Quality

Element's innovation vision

Where We Started:
Best in Class Sequencing

Quality

Q30 **⇒** Q50

Affordability

\$200 genome on a benchtop

Reliability

MTBF > 150 days

*Mean time between failure

2024 and Beyond: **Innovation Pillars**

Simplified Workflows

Onboard enrichment

Integrated Multiomics

Multiomic CytoProfiling

Scale

More experiments, less time

Element AVITITM fit

Empowering more researchers with flexible genomic solutions



Unparalleled performance with throughput from 100 million to 2 billion reads

Quality, affordability, and flexibility, on your timeline

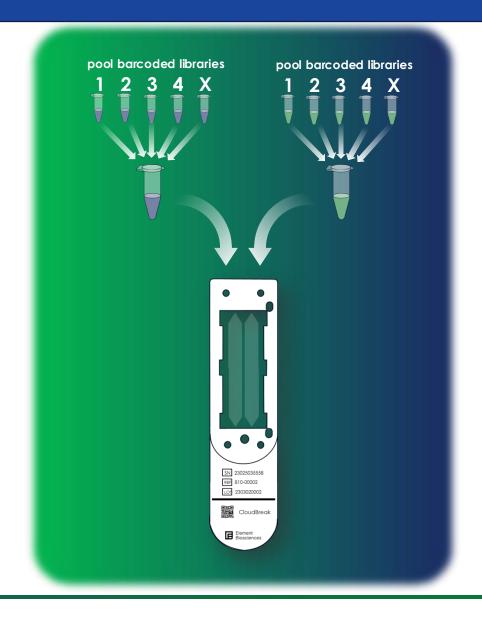
- >90% Q30 and >70% Q50 data with UltraQ
- 300 Gb / 1 B reads per flow cell
- Two fully independent flow cells
- Two addressable lanes per flow cells
- Guaranteed reagent costs
- Ecosystem compatibility
- Negligible index hopping and duplication
- Low-diversity samples (<5% PhiX)</p>



Individually addressable lanes

More flexibility when you need it

- Optional upgrade to enable separate libraries/pools to be loaded in each of two lanes in a single flow cell
- Increased multiplexing capabilities
- Greater flexibility for variable sample volume throughput
- Increased control of read distribution within pools
- Available for both the AVITI and AVITI LT systems on 2x75 and 2x150 flow cells



Our ecosystem partnerships make end-to-end application workflows accessible

Prepare

Sequence

Analyze





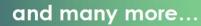














WGS Trios, IpWGS, WES, RNA sequencing, Single cell genomics, **Epigenetics**













Element's AVITITM Sequencer: Next Level Sequencing Solution for Multiomic NGS Applications

Solomon Hailu, Ph.D., M.Sc. Sr. Applications Technical Specialist Solomon.Hailu@ElemBio.com



Outline

- Flexibility, Higher Quality and Low Cost
- Superior Performance
- Applications
- Upcoming Innovations



Element's AVITITM - Empowering researchers with flexible genomic solutions

Features

- Dual independent flow cells
- Two addressable lanes per flow cells
- Q30 >90%, no PCR error propagations
- Negligible index hopping
- Low AT/GC bias and duplicate rates,
- Low-diversity samples (<5% PhiX)
- Simultaneous Single Cell Multiomics + Morphology*
- Long insert and flexible Library Preparation

Applications

- Single cell and bulk RNA sequencing
- WGS / Trios / IpWGS / liquid biopsy
- Exomes and panels
- Epigenetics: Hi-C, ATAC-Seq, ChIP-Seq (CUT&RUN / CUT&Tag)
- Low diversity and targeted sequencing
- Metagenomics, HLA typing and immune profiling
- Long-read sequencing 6 Kb with LoopSeq



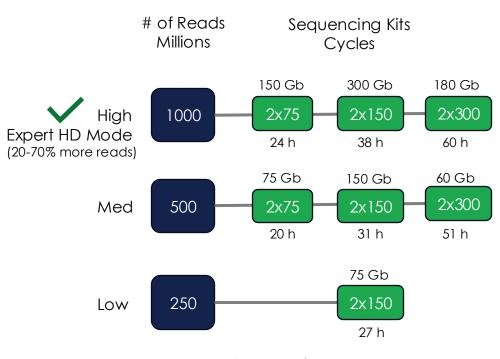
100M to 1B reads per side



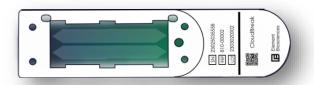
100M to 500M reads per side



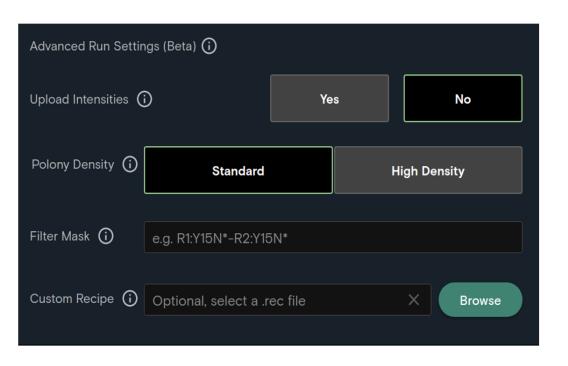
*AVITI + Cellular Profiling
*Coming H2



AVITI LT - Med and Low flow cells High 600 cycle (300M reads) Med 600 cycle (100M reads)

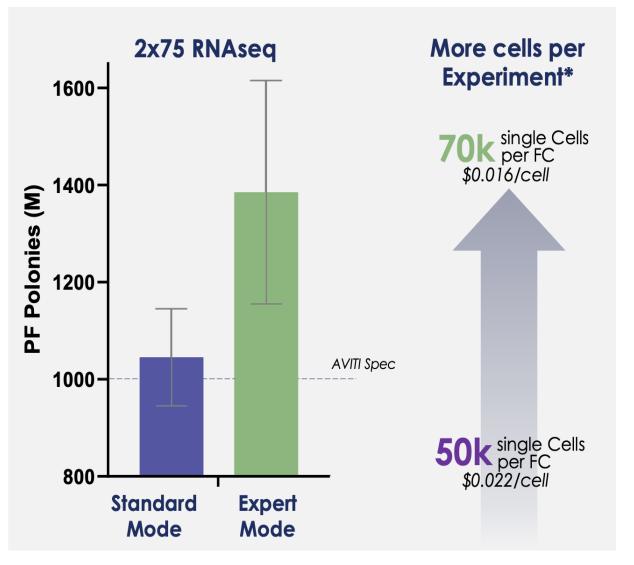


Element's AVITITM - Empowering researchers with flexible genomic solutions



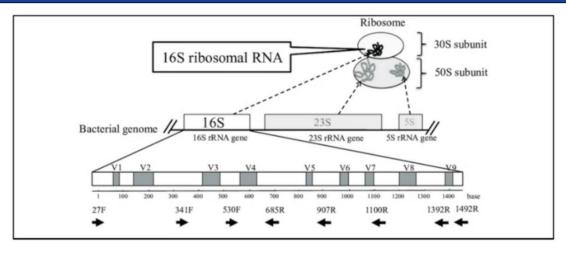
Advanced settings allow additional customization options for expert users

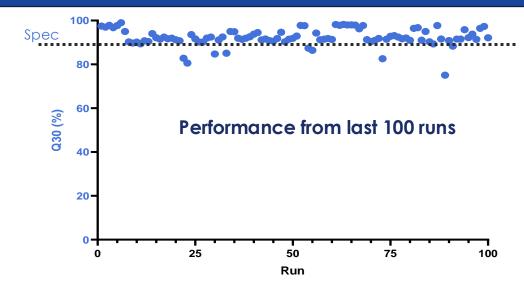
High Density Mode
Custom Recipes for Unique Applications



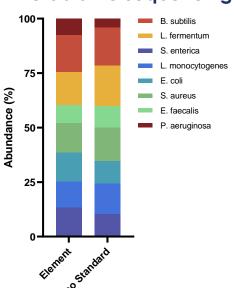
*Assuming 20k reads/cell using 2x75 HO kit, actual results may differ based on lab-specific factors.

AVITI 2 x 300 Kits provides leading data quality and throughput at affordable price



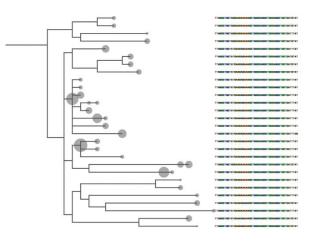


16S Microbiome Sequencing

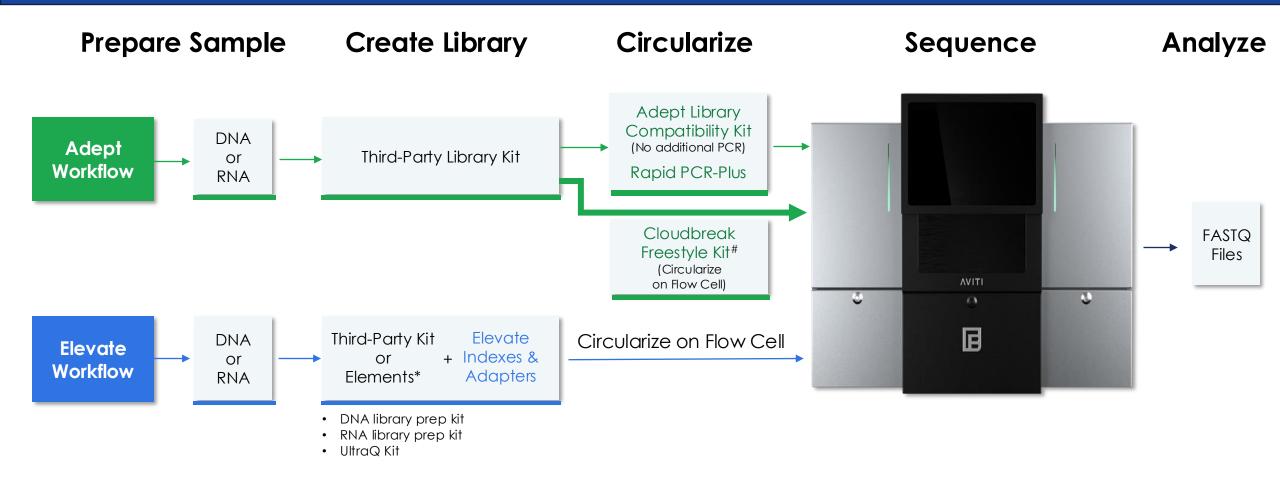


Output	Compared to MiSeq
300M	12x throughput @ ~10x lower cost
100M	4x throughput @ ~5x lower cost
25M - MiSeq	-

BCR Repertoire Sequencing

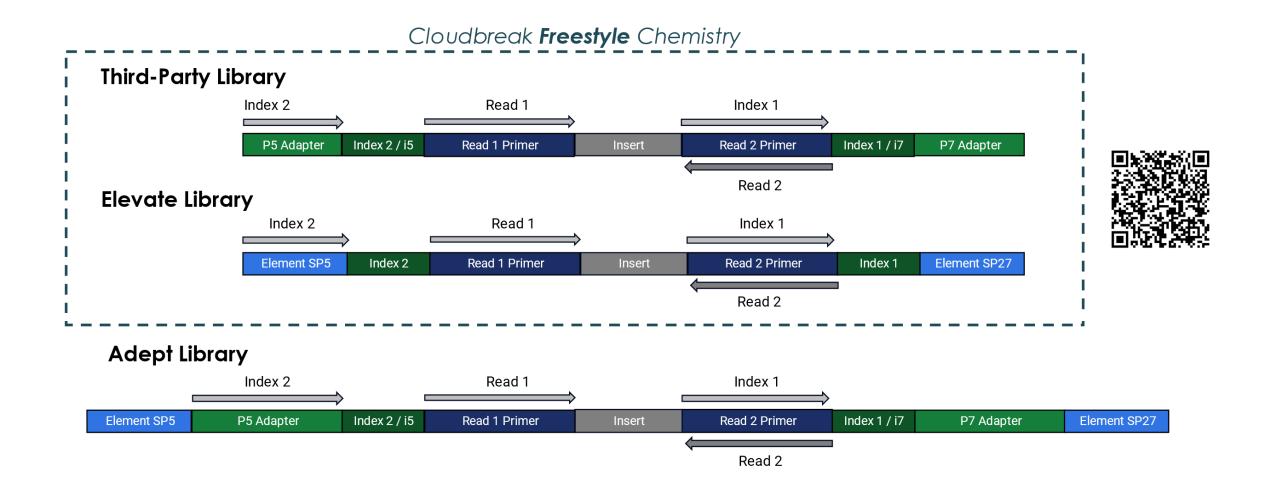


Elevate library prep simplifies your workflow with onboard circularization

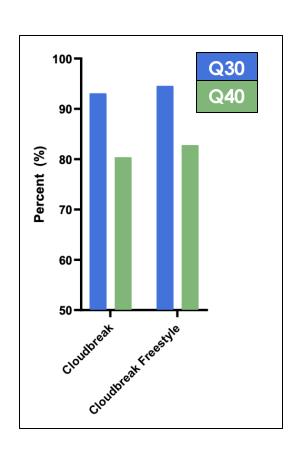


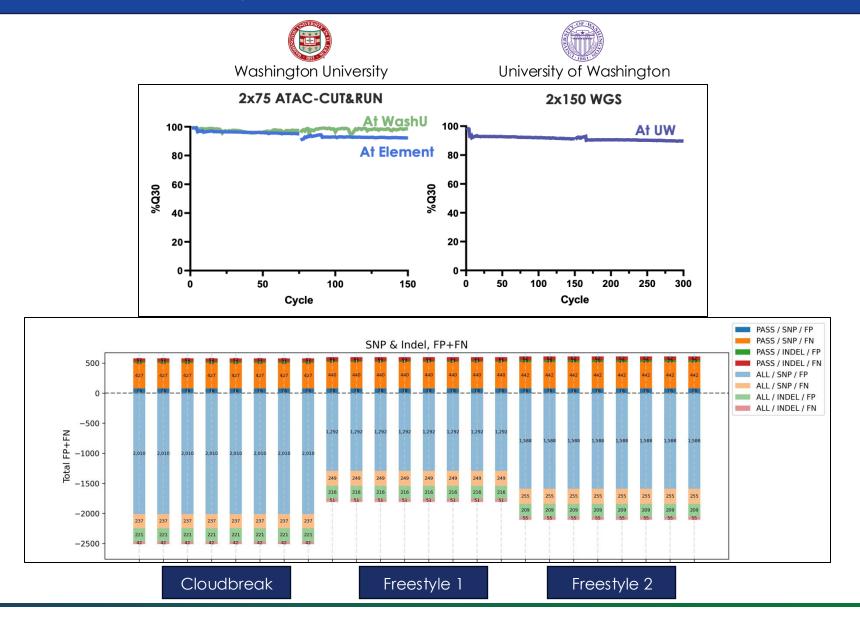
The Adept workflow enables adaption of existing libraries without any changes to the library prep

Library structure



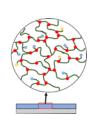
Cloudbreak freestyle delivers same high data quality with easier workflow



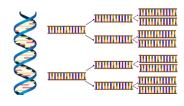


Every aspect of the DNA sequencing process redesigned to fit customer needs





Flow Cell / Surface Reagent Cost, Accuracy



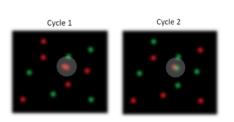
DNA AmplificationEase of Use, Reagent
Cost, Accuracy



Avidity Base Chemistry
Reagent Cost, Accuracy,
Turnaround



InstrumentationThroughput, COGS
Reduction



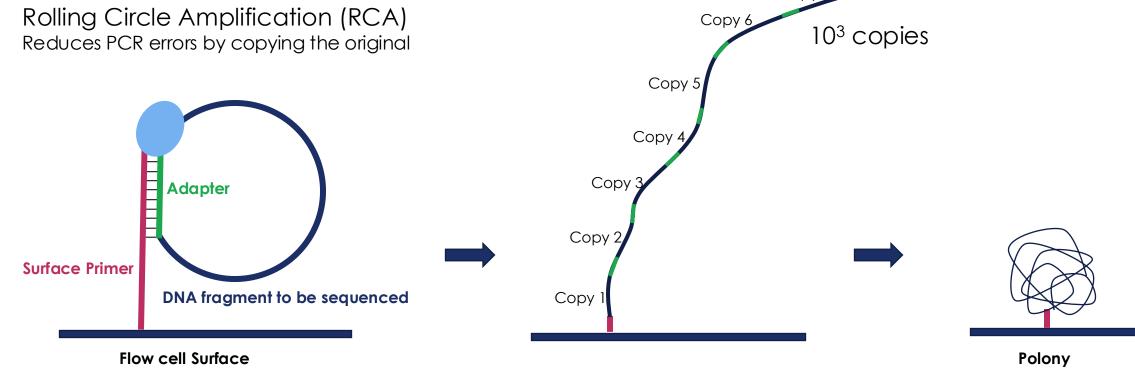
Base CallingAccuracy, Throughput



Workflow
Ease of Use, Paired End,
Low Sample Input

Element's ABC workflow – Rolling circle amplification brings accuracy benefits

Copy N

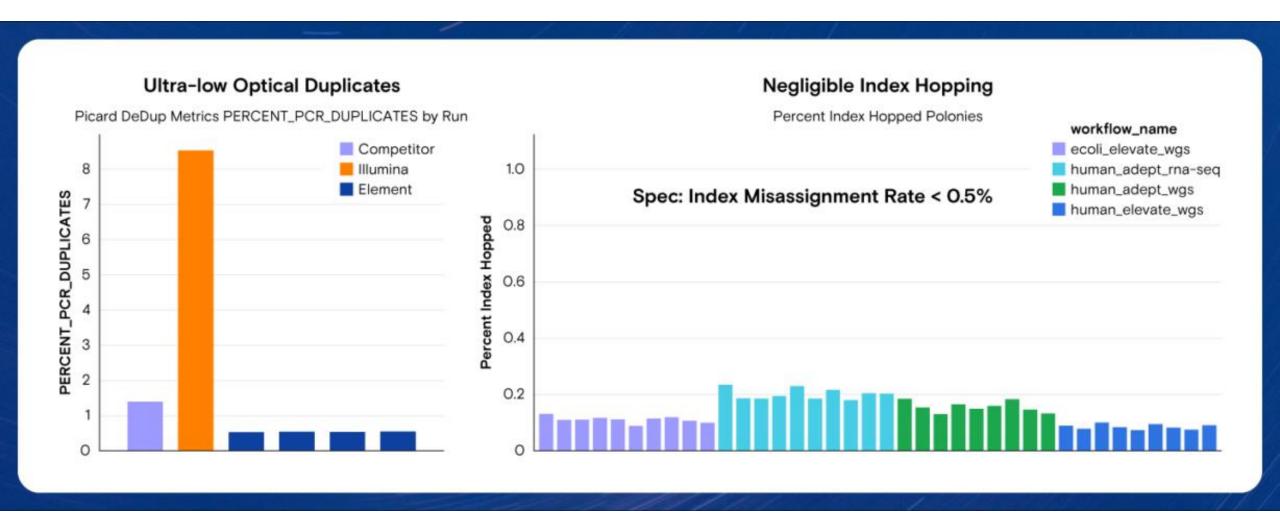


Primary sources of error removed

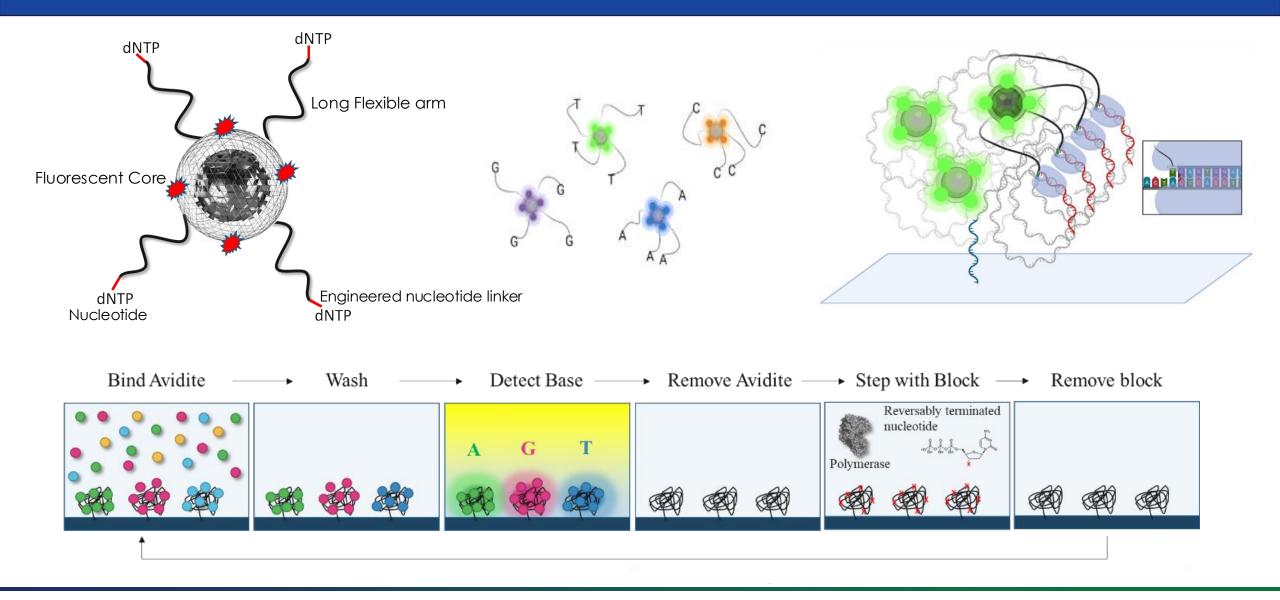
- ✓ No on-instrument PCR = less errors
- ✓ Reduced optical duplicates
- ✓ Index hopping undetectable



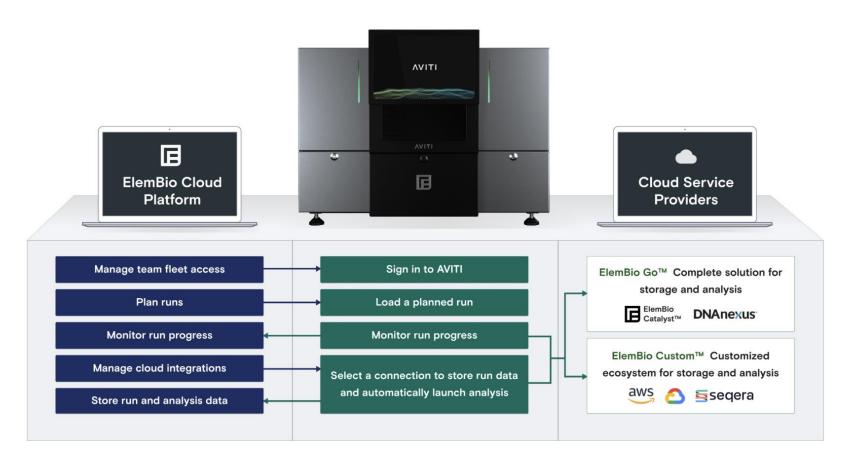
Negligible index hopping and duplication rate with ABC Sequencing



ABC leverages multivalent binding increasing data quality and reducing cost



ElemBio Cloud: a transparent solution that enables end-to-end NGS workflow



Integrated solution for:

Remote Run Setup Run Monitoring Visualizations Connection to your cloud storage Workflows for data analysis



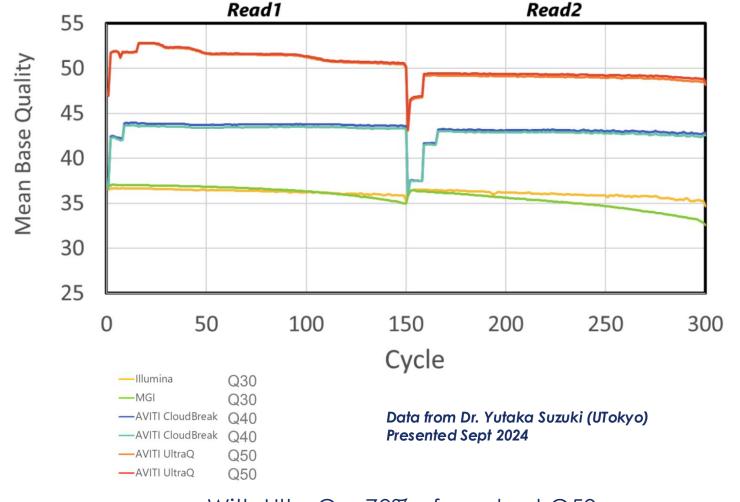
Outline

- Flexibility, Higher Quality and Low Cost
- Superior Performance
- Applications
- Upcoming Innovations



AVITI sets a new standard for sequencing quality

Q score or Phred score $(Q = -10 \log_{10} e$, where e is the base calling error probability)



With	UltraQ,	>70%	of	reads	at	$\bigcirc 50$
* * 11111	omax,	- / 0/0	OI	10003	ΟĪ	QUU

Quality Score	Interpretation
Q10	1 error in 10 bases
Q20	1 error in 100 bases
Q30	1 error in 1,000 bases
Q40	1 error in 10,000 bases
Q50	1 error in 100,000 bases

If a collection of bases is **Q40**, then we expect **1** in **10,000** of those bases to be incorrect



Characterizing and addressing error modes to improve sequencing accuracy

Semyon Kruglyak¹, Andrew Altomare¹, Mark Ambroso¹, Vivian Dien¹, Bryan Lajoie¹, Kelly N. Wiseman¹, Shawn Levy¹, and Matthew Kellinger¹

¹Element Biosciences, San Diego, CA

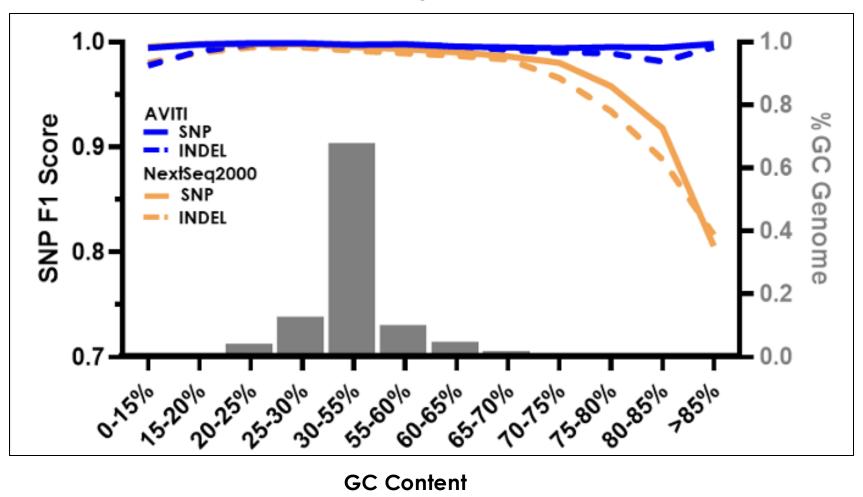
Access here

Blog post

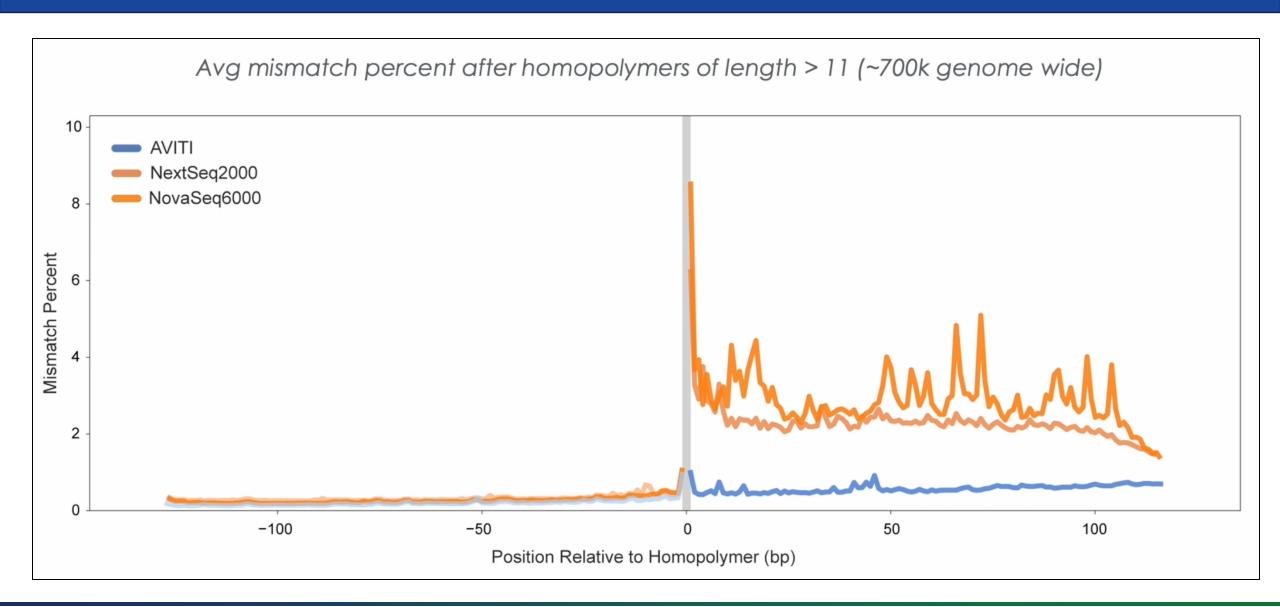


No on-instrument PCR limits AT/GC bias, providing more even coverage

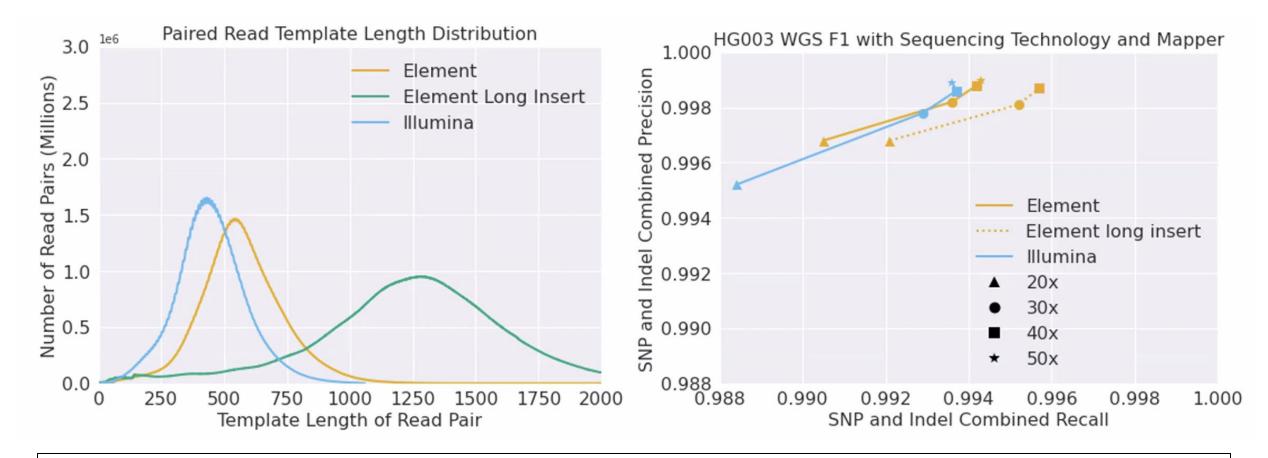
AVITI 2 x 300 variant-calling accuracy vs GC content



Exceptional performance across homopolymer regions



Advantages of insert size on mapping and variant calling accuracy



Accurate human genome analysis with Element Avidity sequencing

Andrew Carroll¹, Alexey Kolesnikov¹, Daniel E. Cook¹, Lucas Brambrink¹, Kelly N. Wiseman², Sophie M. Billings², Semyon Kruglyak², Bryan R. Lajoie², June Zhao², Shawn E. Levy², Cory Y. McLean¹, Kishwar Shafin¹, Maria Nattestad¹, Pi-Chuan Chang¹

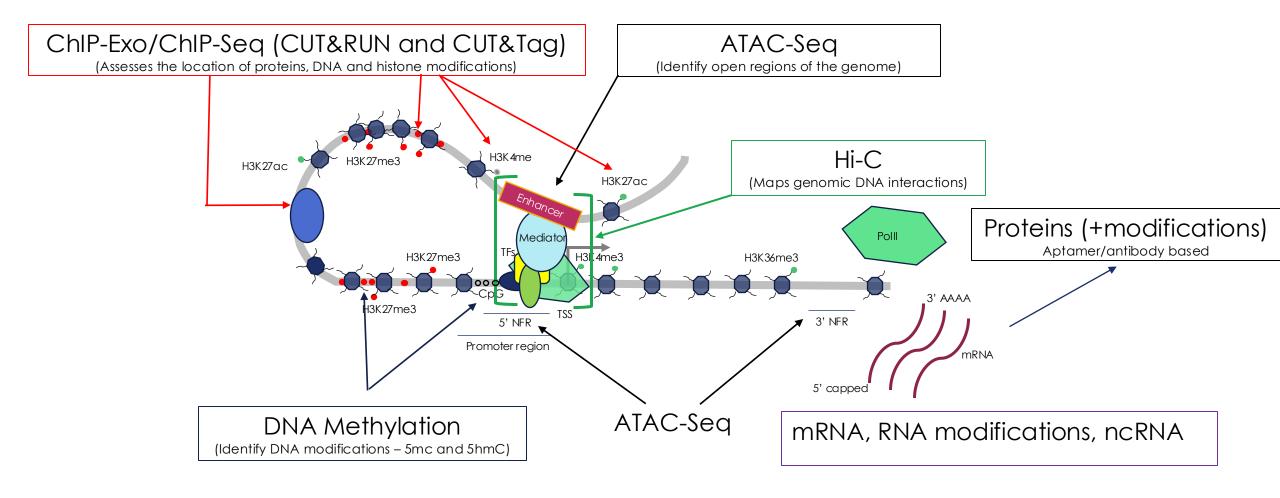
- 1. Google LLC, Mountain View CA, USA
- 2. Element Biosciences, San Diego, CA, USA

Outline

- Flexibility, Higher Quality and Low Cost
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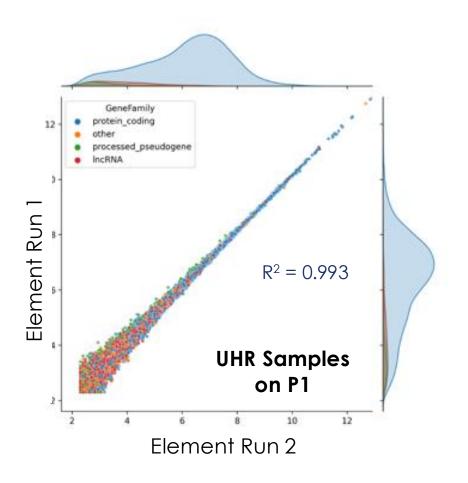


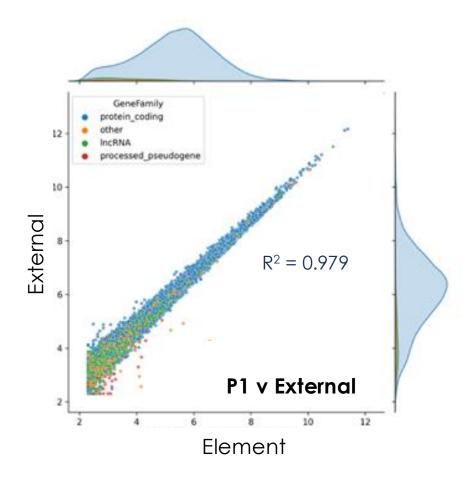
Approaches to investigate mechanisms of gene regulation



Combined with WGS and Immune profiling, can lead to better understanding of disease mechanisms

Element bulk RNA sequencing produces data that is replicable and consistent





Sample-to-sample: target $R^2 > 98\%$

actual $R^2 > 99.3\%$,

Platform-to-platform:

target $R^2 > 95\%$ actual $R^2 > 97.9\%$

Element bulk RNA sequencing produces better data

VIB Nucleomics Core - Leuven, Belgium

Experimental design

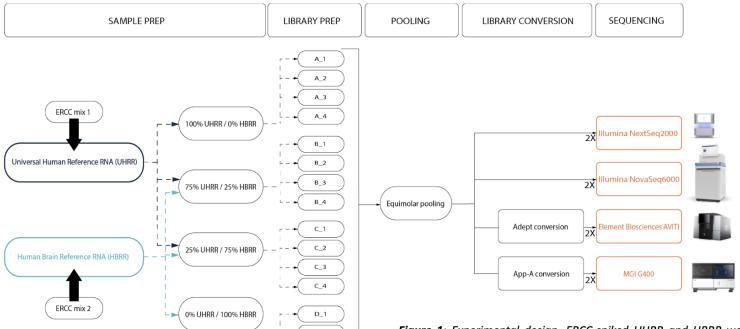


Figure 1: Experimental design. ERCC-spiked UHRR and HBRR were mixed at 4 different ratios. Illumina Stranded Total RNA Library preparation was applied to 4 replicates of each mix. Libraries were equimolarly pooled and aliquots of the very same pool were paired-end 150bp sequenced on NovaSeq6000 SP, NextSeq2000 P3, AVITI, and G400 FCL. Conversion steps were introduced following instructions by the providers to make the pool compatible with AVITI and G400 sequencing.

Quality scores

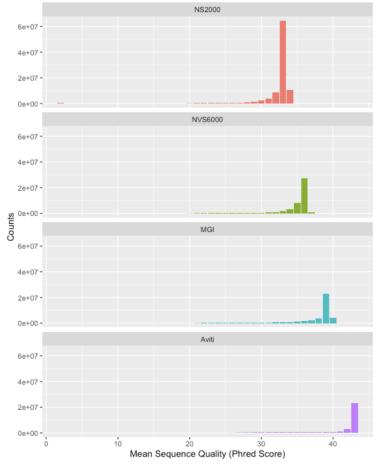
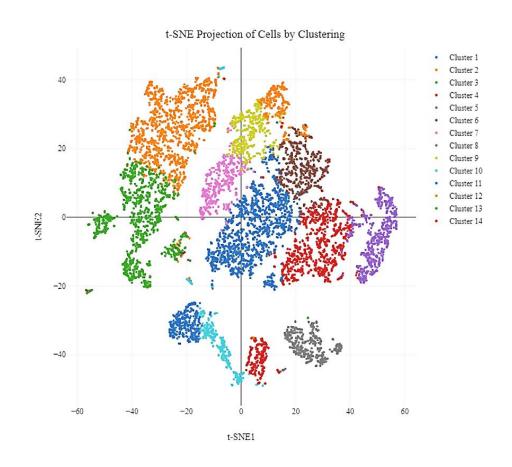


Figure 4: Read count versus mean Q-score of platforms

Element is a certified 10X genomics compatible partner

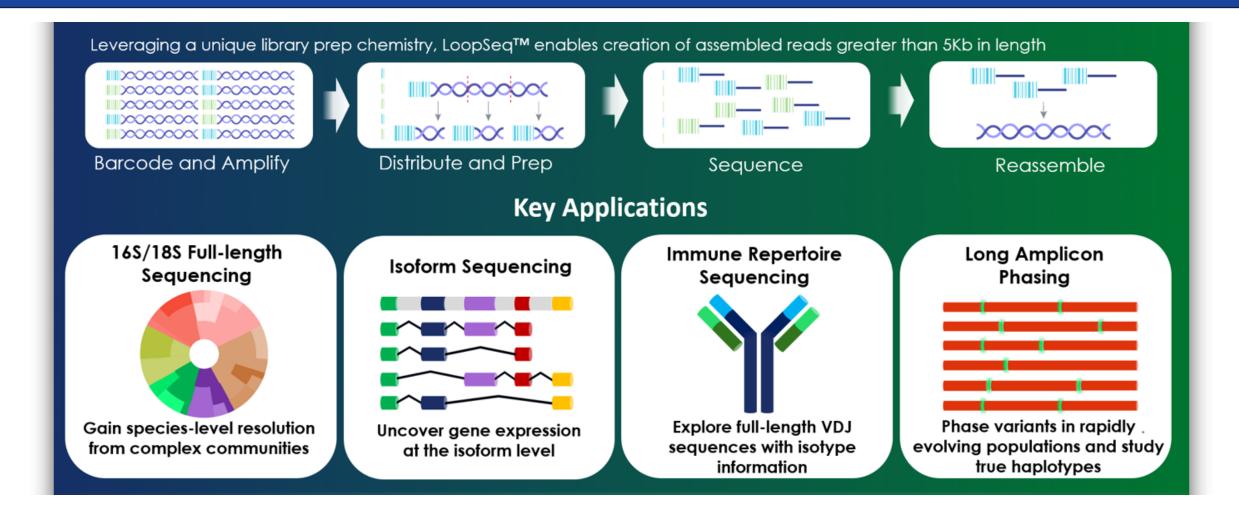
10K and 1K Human PBMC Reference from 10x Genomics

10X Cellranger Count Metrics (v7.0)	CPP Expectation	AVITI 10k cells	AVITI 1k cells
Valid Barcodes	>90%	97.5%	97.5%
Reads mapped confidently to Exonic Regions	>50%	53.0%	53.8%
Reads mapped confidently to Transcriptome	>40%	74.7%	77.8%
Fraction Reads in cells	>80%	95.5%	92.6%
Q30 bases in barcode	>85%	99.5%	99.5%
Q30 bases in RNA read	>75%	98.6%	98.8%
Mean Reads per cell	>50,000	61,326	68,766
Median Genes per cell	>1700	2,910	2,951
Estimated number of cells	+/- 20%	8,513	922



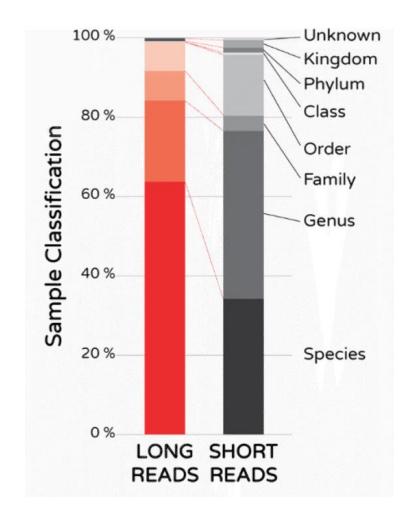
Sequencing data available for download on our website: <u>www.elementbiosciences.com</u>

LoopSeqTM: On-demand access to long reads with AVITI

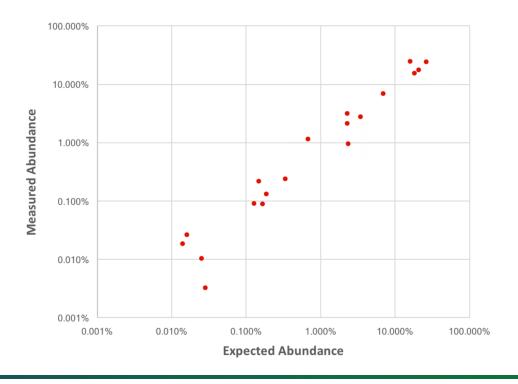


Targeted Sequencing for ACMG/PGx/CMRG genes, off-target assessment of CRISPR, RNA isoform discovery

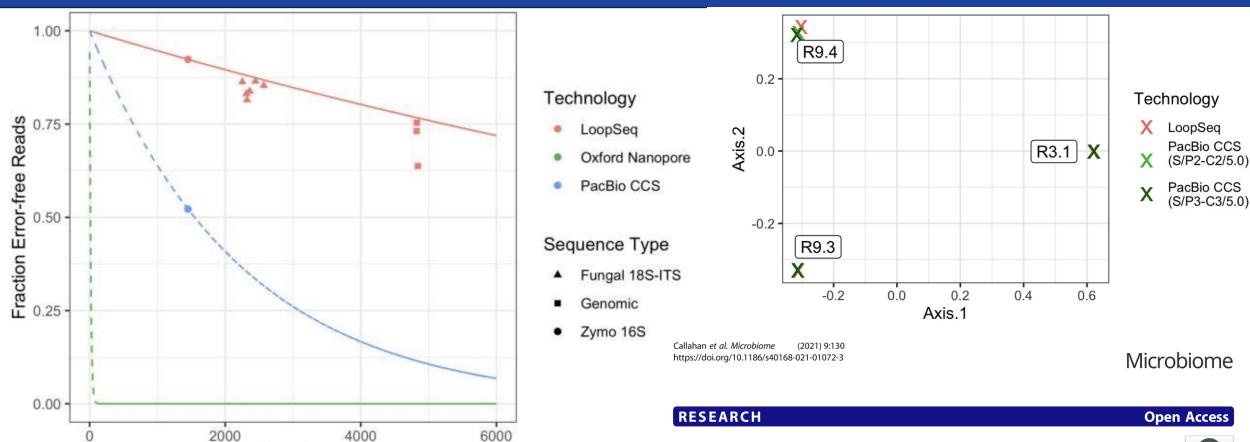
LoopSeq 16S sequencing improves both species resolution and quantification



- Complex soil sample using short-read sequencing versus LoopSeq full-length 16S
- Unlike short reads, LoopSeq Microbiome method classified >99% of unique 16S molecules down to species or genus level
- LoopSeq enhances accurate quantification by leveraging UMIs to remove PCR duplicates



LoopSeq delivers higher fraction of error free reads than alternate long read technologies

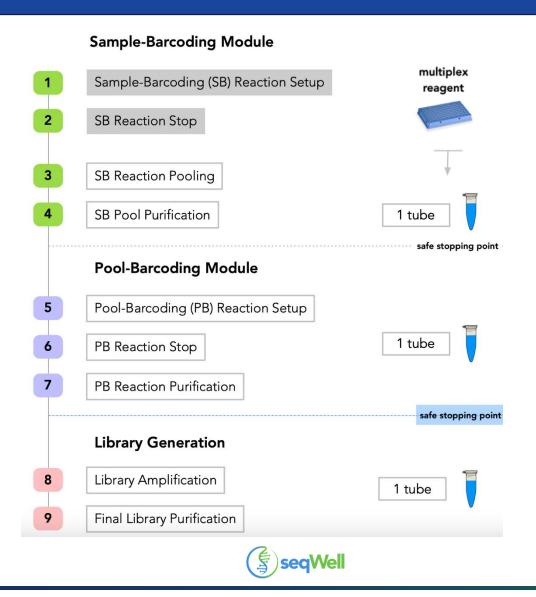


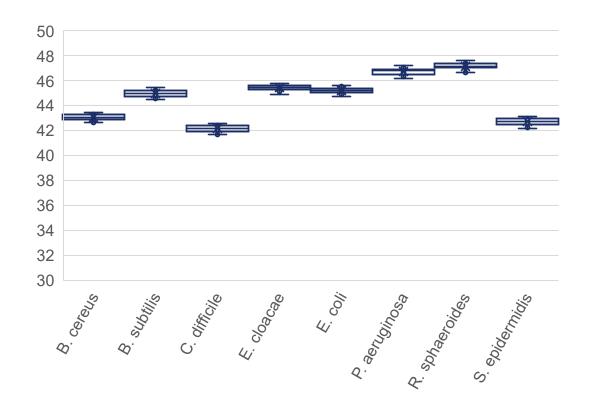
Ultra-accurate microbial amplicon sequencing with synthetic long reads

Benjamin J. Callahan^{1,2*}, Dmitry Grinevich¹, Siddhartha Thakur¹, Michael A. Balamotis³ and Tuval Ben Yehezkel³

Amplicon Length

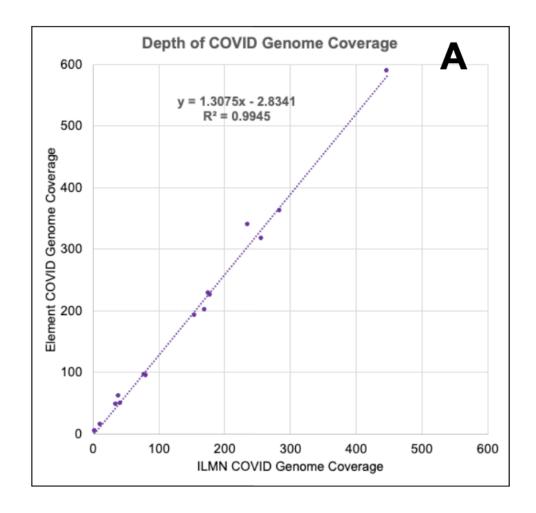
Microbial WGS is accurate and affordable on the Element AVITI system



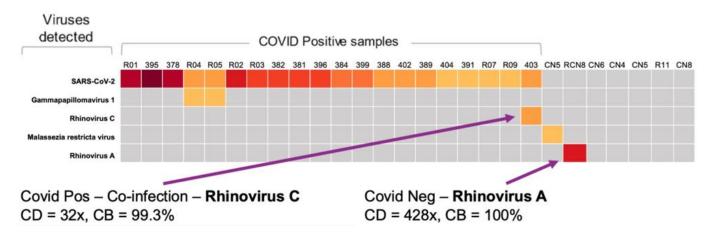


- 384 multiplexed samples were aligned against the ATCC reference for each sample
- All replicates had mean quality score >40

Beyond COVID surveillance: Shotgun meta-transcriptomics as a method for a universal infectious disease surveillance assay



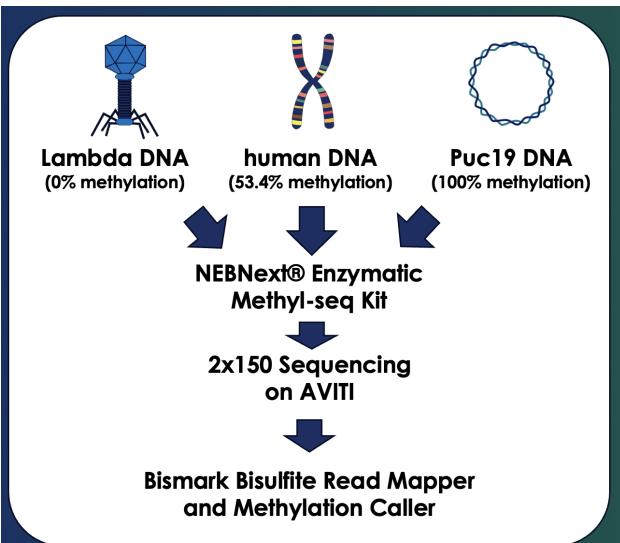
- Samples processed with JumpCode CRISPRclean Plus
 - > deplete high abundance host and bacteria rRNA
- STAR/GATK for alignment against the SARS-CoV-2 reference
- In several cases, the method was able to detect coinfection with additional viruses

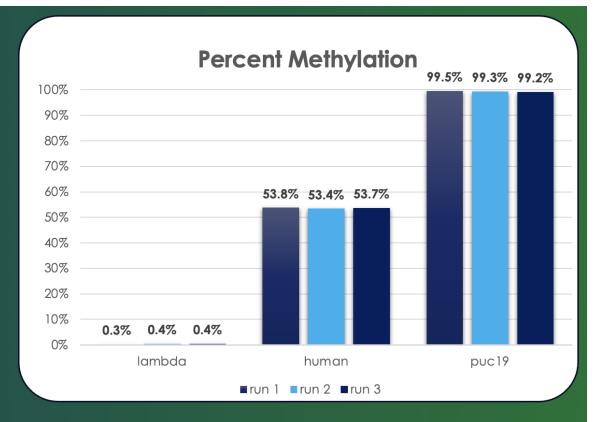




DNA methylation analysis

Methyl-Seq on AVITI using enzymatically converted DNA

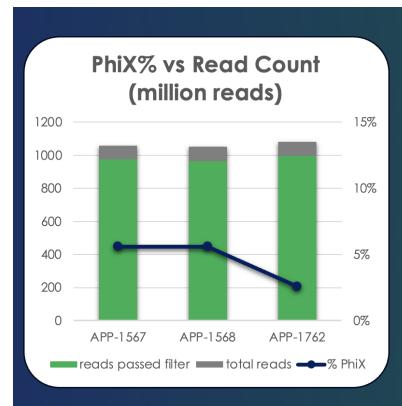




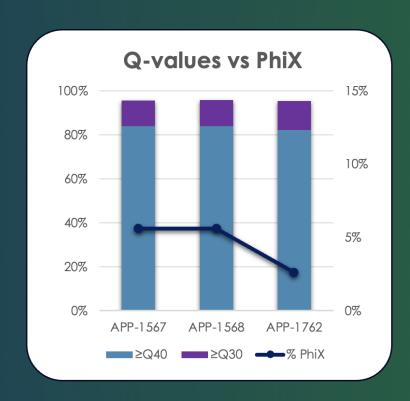
Whole genome methylation sequencing on AVITI produces highly accurate results relative to truth data

DNA methylation analysis

Robustness in polony-finding and base calling with low-complexity libraries



Impact of total usable reads with reduced PhiX to 2%



Minimal impact on quality scores with reduced PhiX to 2%

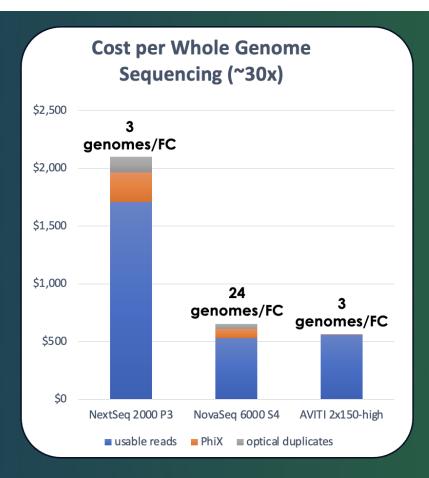


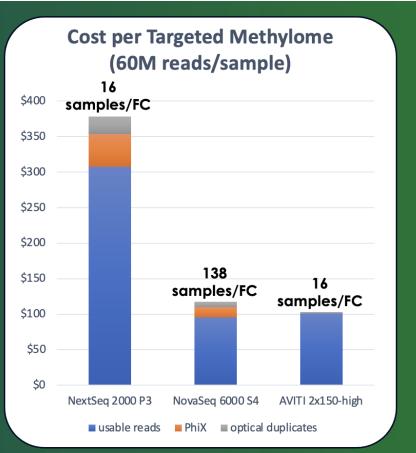
Comparison of methylation analysis results with PhiX titrated to 0%

DNA methylation analysis

Translating technical benefits into cost savings

Reducing read allowance to exogenous controls adds to cost advantage over Illumina platforms without the need for high sample plexity





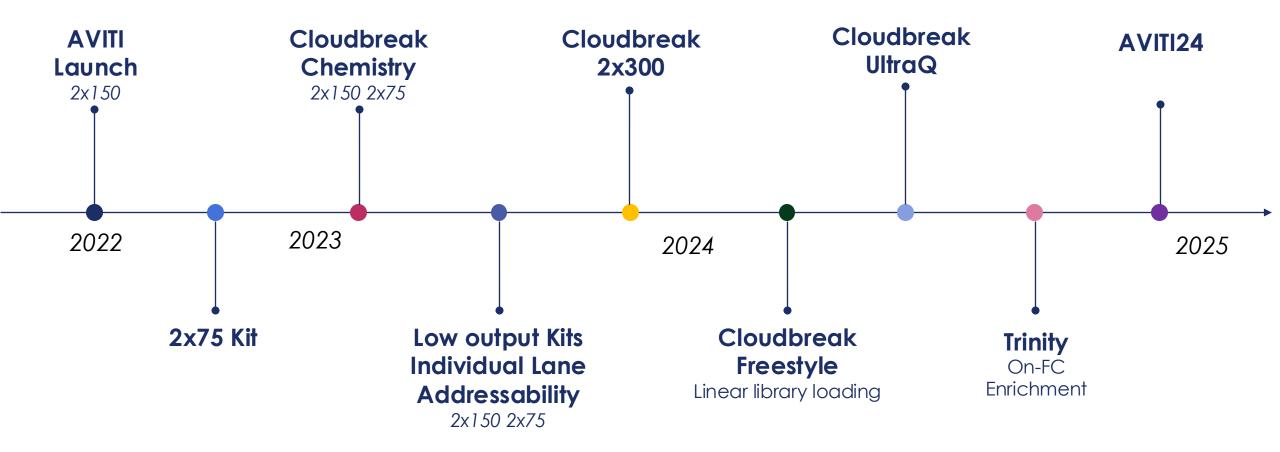
Estimating 15% PhiX required for Illumina platforms and 8% loss of reads due to optical duplicates

Outline

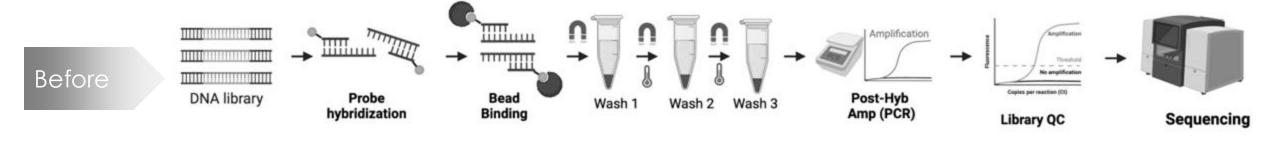
- Flexibility, Higher Quality and Low Cost
- Superior Performance
- Applications
- Upcoming Innovations



AVITI past, present, future

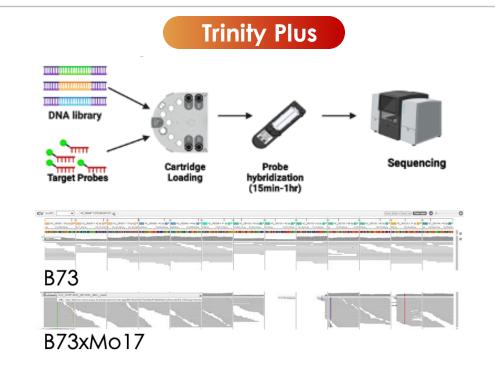


Trinity: On-flow cell targeted sequencing



After Probe hybridization (1hr-16hr) Cartridge Loading

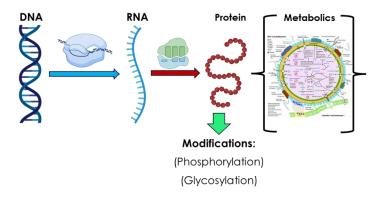
- Lower sample input
- Lower bait requirements and improved performance
- Minimal hand-on time (No bead handling and posthybridization PCR)
- Coming H2 '2024



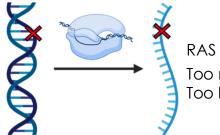
Critical Need: understand the rules that govern biology's circuits

Systems Biology assays must identity, quantity, and map multiple biological pieces at any given time

A single cell has 30B + functional molecules



19% of cancers have a RAS mutation*

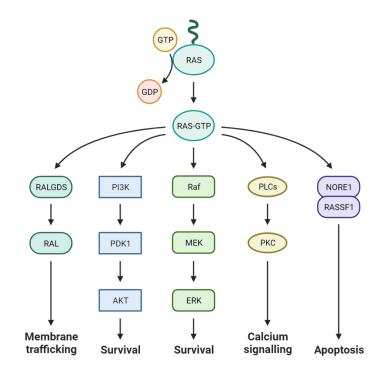


RAS expression can vary 100-fold*

Too much → senescence / cell death**

Too little → tumor formation**

*Prior, IA, et al., Cancer Res (2020) 80 (14): 2969–2974. **Sarkisian, CJ et al, Nat. Cell. Biol, (2007) 9 (50), 493. Biology's complex circuits





AVITI24 Teton workflow enables sample to answer in 24 hours



Cell Preparation

<1 hour

Sample Preparation



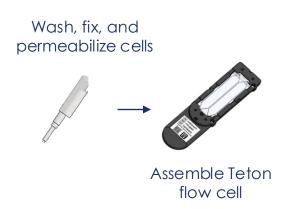
Sequencing + Primary Analysis

Data Visualization



Culture or deposit cells directly on Teton flow cell

50k cells/well (12-well) 1M cells/well (1-well)

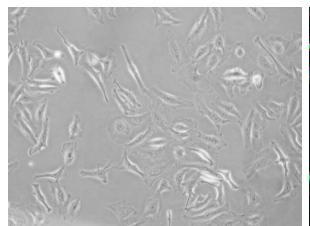


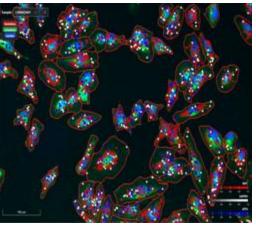




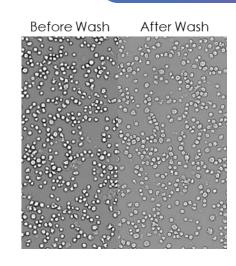
AVITI24: compatible with adherent, suspension, and targeted cell capture

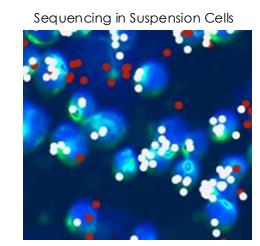
Adherent Cells





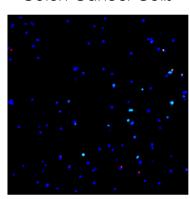
Suspension Cells



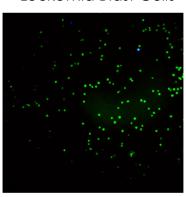


Targeted Cell Capture from PBMCs

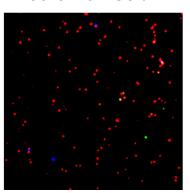
Colon Cancer Cells



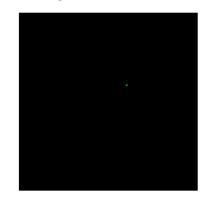
Leukemia Blast Cells



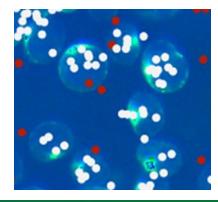
Leukemia T Cells



Negative Control



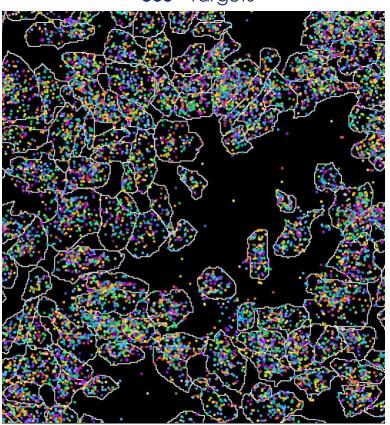
Detection in Cells



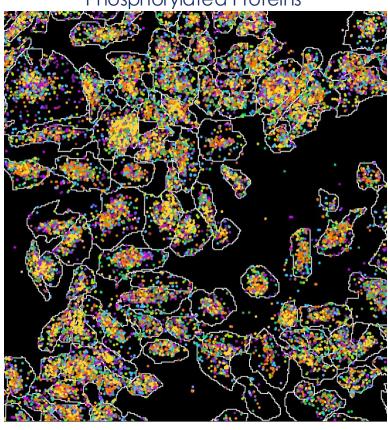
Unlocking morphology and multiomic read-outs in <24h with a single assay

Cell morphology **6** Targets Cell Membrane **Nucleus** Actin **Endoplasmic** Reficulum Mitochondria Golgi Apparatus

RNA Detection 350+ Targets



Protein Detection
50+ Surface, Intracellular, & Phosphorylated Proteins

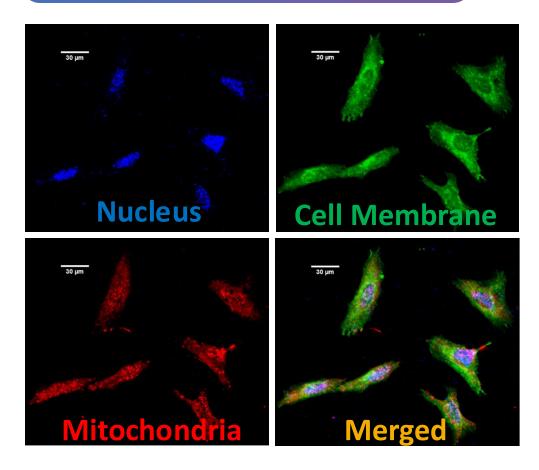


Available at Launch: MAPK Cell Cycle + Apoptosis Panels

Coming in 2025: Immunology, Neuro, Custom

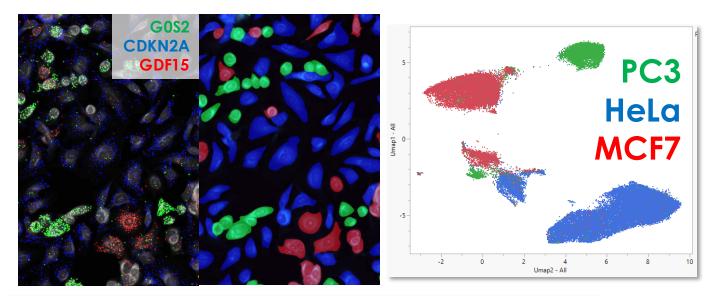
AVITI24: proprietary morphology detection with Element ABC cell paint

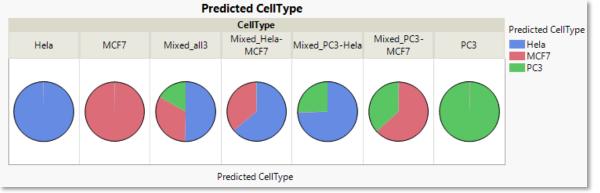
Element Proprietary Cell Paint on AVITI24



Up to 20 features simultaneously

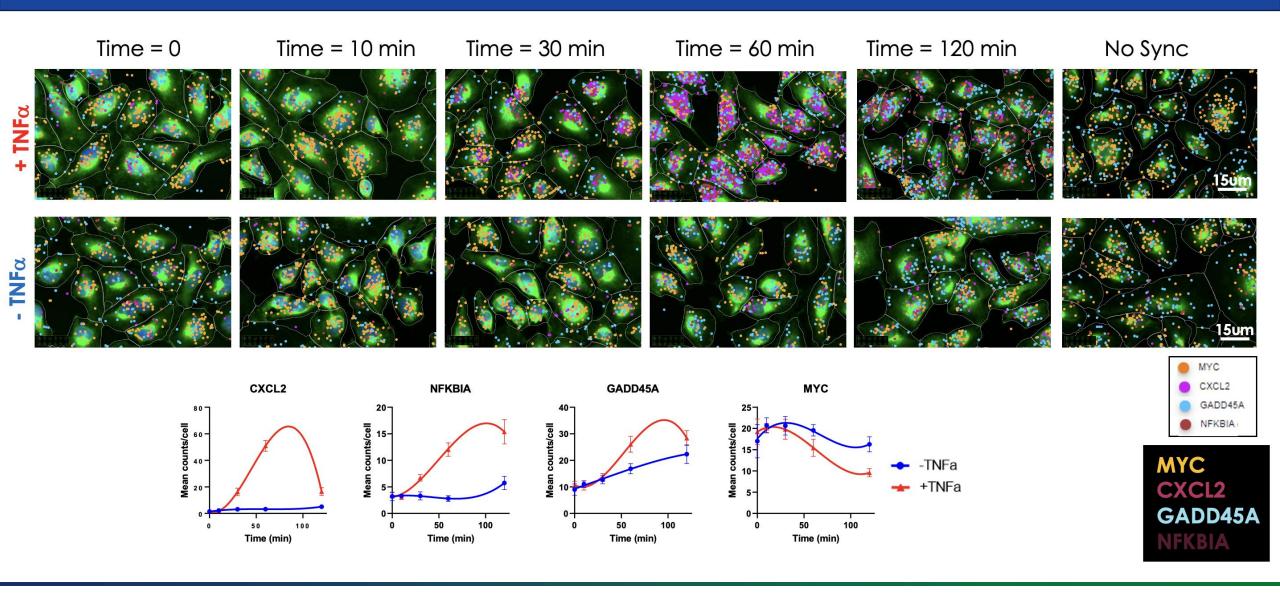
Cell Paint powered sorting from cocultures* on AVITI24





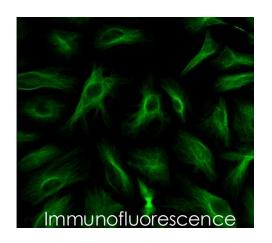
^{*}Cocultured 3 different cell types and AVITI²⁴ separated cell types

RNA detection results: cell synchronization assay

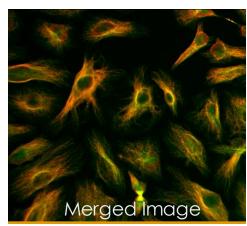


Teton measures 50+ cell surface, intracellular, and phosphorylated proteins

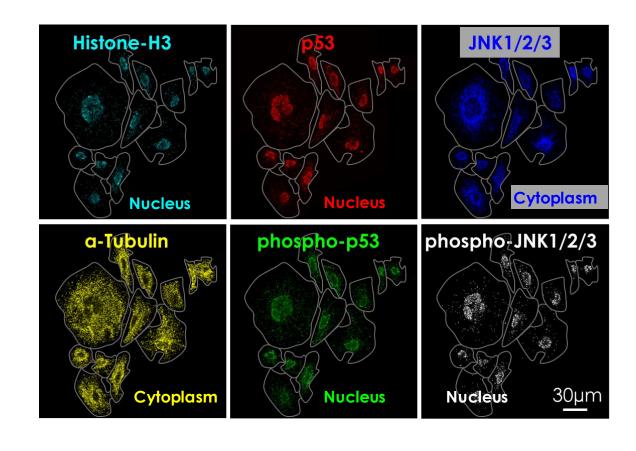
Immunofluorescence vs. AVITI24



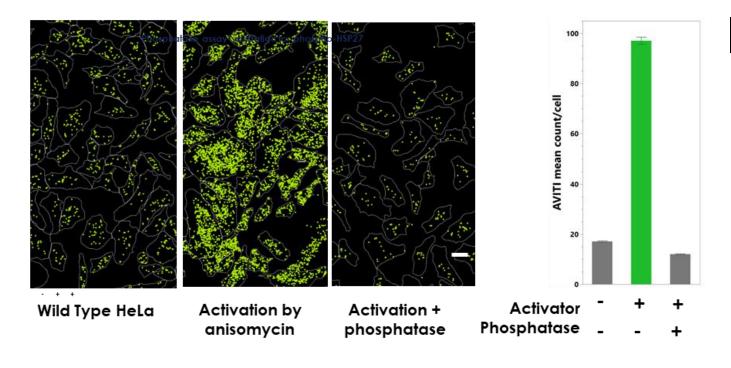


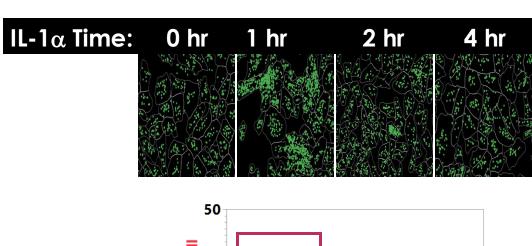


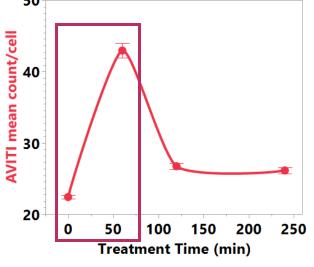
Protein Localization (AVITI24)



Phosphorylated protein detection at biologically meaningful timescales



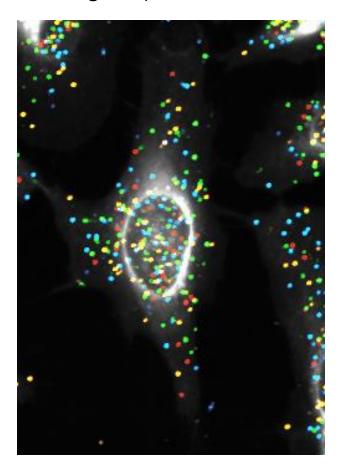




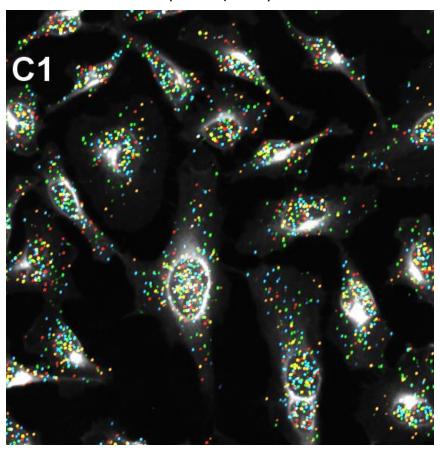
In Vitro 3D ABC Sequencing (2025)

100 cycle zoomed in region of targeted sequencing region

Single Cycle 3D Stack



Zoomed in 2D Projection 3D Images (100 cycles)



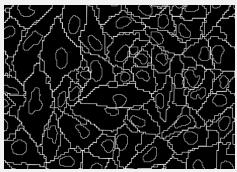
Applications:

- Untargeted Transcriptome
- Optical Pooled Screens (guide RNA-seq)
- TCR/BCR-seq in situ
- Expressed SNP detection
- and more!

AVITI24 Teton software accelerates the data analysis journey

Onboard Primary Analysis

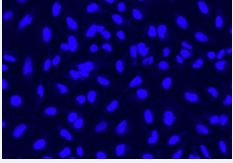
Real-time processing for ready-to-analyze data in 24h



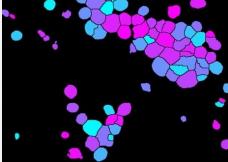
Cell Segmentation



Cell Assignment (transcripts/proteins)



Intensity Quantification (cell paint)



Morphology Feature Extraction

Offboard Analysis

Interactive data visualization and analysis



Element CytoCanvas
Visualization Software

	gene1	gene2	•••	geneN
Cell1	3	1		13
Cell2	2	14		18
CellN	25	0		2

Open data format for easy integration into community tools

AVITI24: an integrated platform for NGS and CytoProfiling

Core Sequencing:

- Accurate: reach Q50 data with Cloudbreak UltraQ kit
- Flexible: dual independent flow cells with two lanes
- Compatible: direct loading of linear libraries with Cloudbreak Freestyle
- Simplified: on-flow cell enrichment with Trinity
- Affordable: 20-70% more reads per run at no extra cost with Expert Mode HD



AVITI24[™]

Teton CytoProfiling:

- Multiomic: RNA, protein, 300bp seq, morphology
- Subcellular: 200nm res.; multifeature cell segmentation
- Sensitive & Specific: with Avidity Base Chemistry (ABC)
- High Throughput: up to 1 million cells with 10cm2 usable area in <24 h; 2 concurrent runs (20cm2 total)
- Versatile Inputs: on-flow cell cultured cells or fixed cell suspensions

AVITI24 TAP: acceptance criteria and what is supported

TAP Program Requirements

- Be registered on TAP website and willing to accept our terms and conditions
- Be willing to pay for TAP → processing of one12-well Teton Flow cell run
- Submit adherent human cells
- Use Element MAPK panels; no customization
- Be able to perform own data analysis
- Be tied to an instrument upgrade/purchase decision



Project Criteria

Adherent Human Cell Lines

- HeLa
- HEK293
- HUVEC
- PC3
- HepG2
- MCF7
 Internally tested

Slide surface

Poly-L-Lysine coated (PLL)

Supported format/density

- 1, 12-well FC (0.5cm²/well)
- Up to 50,000 cells

AVITI 24 Technology Access Program Get early access to multiomic data AVITI 24 AVIT 24 AVITI 24 AVITI 24 AVITI 24 AVIT 24

Plexity and targets supported

- RNA 350 targets
- Protein 50 targets
- Cell Paint 6 targets

Quotable PN	TAP Service	List Price
992-00100	TAP Service: Teton Human MAPK & Cell Cycle, PLL, 12 wells	\$9,980
992-00102	TAP Service: Teton Human MAPK & Apoptosis, PLL, 12 wells	\$9,980

