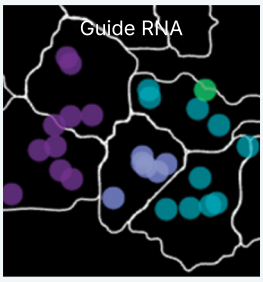
Element Biosciences

Cytos™ Cell Screening

See the biology driving every screen

Morphology

Provides robust segmentation and links perturbations to cell state

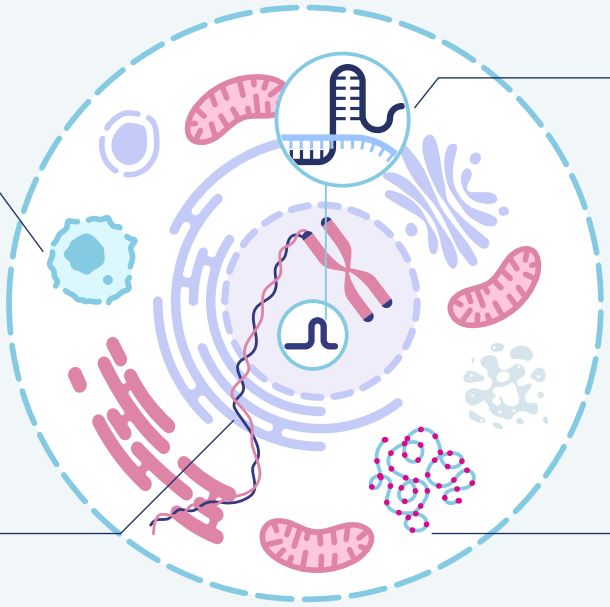


Guide RNA

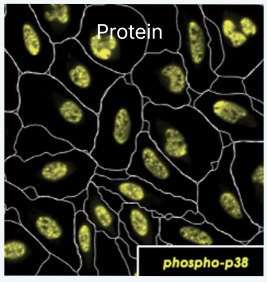
Directly sequencing 10s-10ks of guide RNAs for genome-wide or focused screens.

Transcriptome

Resolve gene program and pathway changes



Profile morphology, transcriptome, protein, and guide RNAs from the same cell in one automated run with Cytos on AVITI24™.



Protein

Visualize protein expression and localization

CRISPR screening

Turn every genetic perturbation into a multidimensional map. Sequence guide RNA with morphology, protein, and 3′ transcriptome for a complete view of biology.

Readouts: guide RNA · morphology · up to 20-plex protein · optional 3′ transcriptome

Drug screening

Connect a compound's effect to its mechanism with same cell multimodal readouts in every run. Understand how a drug changes cell state, protein localization or expression, and molecular pathways.

Readouts: 3′ transcriptome · morphology · up to 20-plex protein

Bring Cytos to your lab

Scan to get started.

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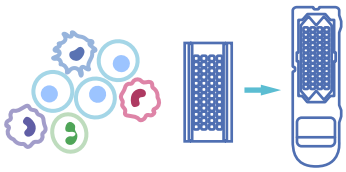
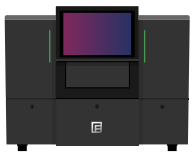
Streamlined workflow from cells to answers

Cytos uses DISS, Direct In Sample Sequencing, to capture every readout from the same fixed, intact cell, with automated analysis.



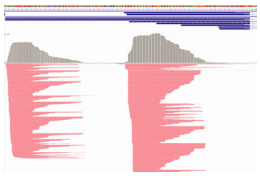
Sample prep

Culture cells directly on Cytos slides, apply treatments, fix, and load. No library prep.



Imaging & sequencing

Morphology, protein, transcriptome, and guide assignment captured on AVITI24.



Secondary analysis

ElemBio Catalyst™ handles transcriptome processing immediately following your run.

Visualization and tertiary analysis

Bring every readout into one view for QC and downstream multimodal analysis. Data compatible with your existing multiomic pipelines.

What makes Cytos different?

Same-cell multiomics

No separate assays to reconcile.

One automated instrument

All your readouts, start to finish, on AVITI24.

Easy customization

Choose custom morphology and protein markers that fit your screen.

No library prep

DISS sequences directly in intact cells with no separate NGS run.

Speed to insight

Less than 1 hour of offboard prep and run times as fast as 1 day.

End-to-end workflow

From sample to visualized result.

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