THINKCYTE

See your cells in a whole new light

VisionSort

POWERED BY
Ghost Cytometry

DUAL MODE CELL SORTER
By hi-res spatial fluorescence and label-free data

CELLULAR FINGERPRINTS
By morphology with detailed spatial resolution

UNBIASED DISCOVERY
Using real-time AI

APPLICATION AREAS

CELL THERAPY R&D
- Identify cells with unique phenotypes
- Label-free sorting – isolate truly untouched cells
- Identify cells with high therapeutic value

DISEASE PROFILING
- Identify and isolate rare/novel cell populations
- Morphological profiling of complex diseases
- Enable novel biomarker discovery programs

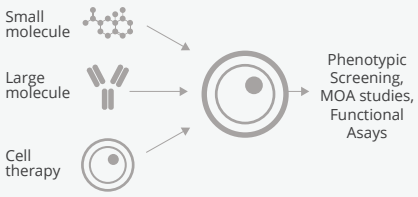
DRUG DISCOVERY
- Perform high-throughput phenotypic screens
- Find new drug targets and MOAs
- CRISPR screening

The Problem

Cells are the core functional unit of all living systems. Understanding cells not only advances basic biology but also drives modern drug discovery. Cells are used to identify and produce new drugs, act as biomarkers for disease, and even as therapies themselves (e.g. CAR-T and TIL therapy). With cells playing such a pivotal role in the advancement of life science research, drug development and diagnostics, new tools to unlock cellular data are needed.

DRUG DISCOVERY

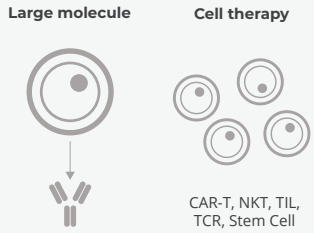
Compound Screening, Functional Genomics, Lead Identification, Antibody Discovery, Cell Therapy Research



Cells are used to screen for phenotypic readouts of a drug

DRUG DEVELOPMENT

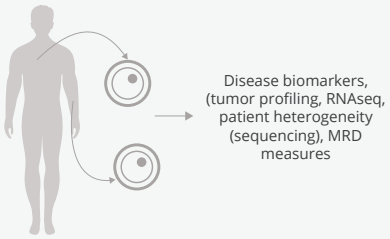
Process Development, Process Optimization, Process Validation, CMC, Automation, Bioprocessing



Cells are used to produce a drug or are drugs themselves

DIAGNOSTICS

Biomarker Discovery, Companion Diagnostics, Disease Diagnostics, Personalized Medicine



Cells are used to identify disease and therapy related molecular differences

The VisionSort Innovation

Bringing together fundamental advances in optics, microfluidics, and artificial intelligence (AI), VisionSort empowers researchers to get more from their cells. VisionSort was designed to deliver the all the capabilities you have come to expect from traditional fluorescence-only cytometers and adds the strength of morphological profiling and insights of AI. Go beyond conventional cytometry add a new dimension to your cellular analysis and sorting workflows with VisonSort.

FLUORESCENCE
Conventional marker-based analysis

MORPHOLOGY
High resolution morphometric profiling

AI
Discover hidden patterns in your cellular data

SPECIFICATIONS

OPTICS	
Laser excitation	405 nm, 488 nm, 637 nm
Detectors	12 total (FSC/BSC, 5 fluorescence channels (Blue / Green/ Yellow/Red/ Infrared), 5 Ghost motion image (GMI)
FLUIDICS	
Performance	Purity of >98% and yield >80% of Poisson's expected yield.
Viability	>99% for lymphocytes
Cell Size	4 – 40 microns

MORE AT
THINKCYTE.COM

THINKCYTE
7-3-1 Hongo | Bunkyo, Tokyo | Japan
1100 Island Drive
Redwood City, CA 94065