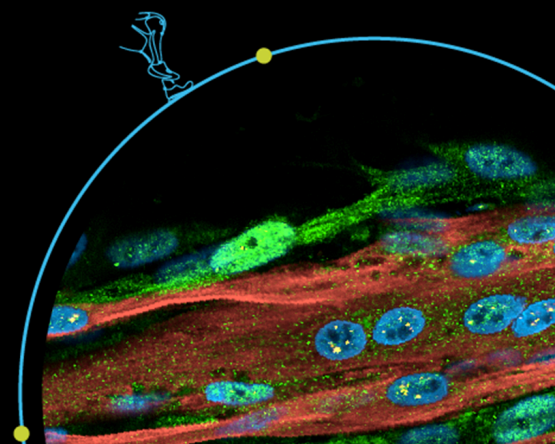




Precision Models. Confident Decisions.

Micropattern Technology for Predictive Drug Discovery

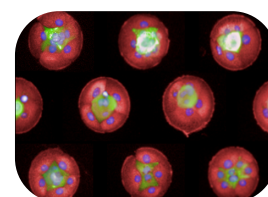
Best-in-class in vitro models | AI-powered image analysis
60+ pharma & biotech projects worldwide



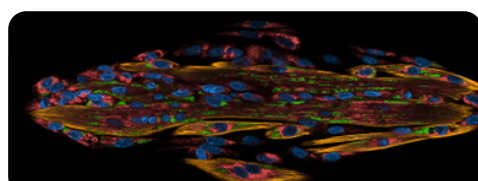
The challenge

Conventional in vitro models suffer from tissue disorganization, high variability, and poor physiological relevance, — failing to survive contact with clinical reality. With drug development costs exceeding \$1B over 10-15 years, teams can't afford models that work in discovery but break down at the IND filing, potency testing, or lot release stage.

CYTOO micropatterning is built for the full development continuum: combining high physiological relevance with the standardization and robustness required from early screening through FDA-validated potency assays and GMP compatible release testing. All — on a single platform.

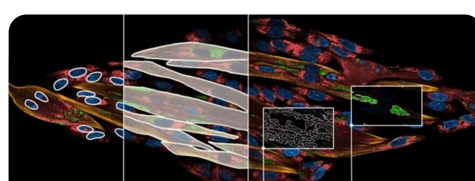


CYTOO solution



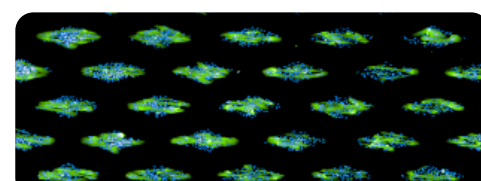
Primary human cells

- Primary human cells
- 65+ donors in proprietary biobank
- 10+ disease indications
- Extended cell access via biobank collaborations



AI image analysis

- AI image analysis
- Proprietary AI powered cell profiling
- Spatially resolved, multi-parameter readouts
- Simultaneous analysis across morphology, function & viability
- Automated HCA delivering unbiased, quantitative, decision-ready data



Micropatterned plates

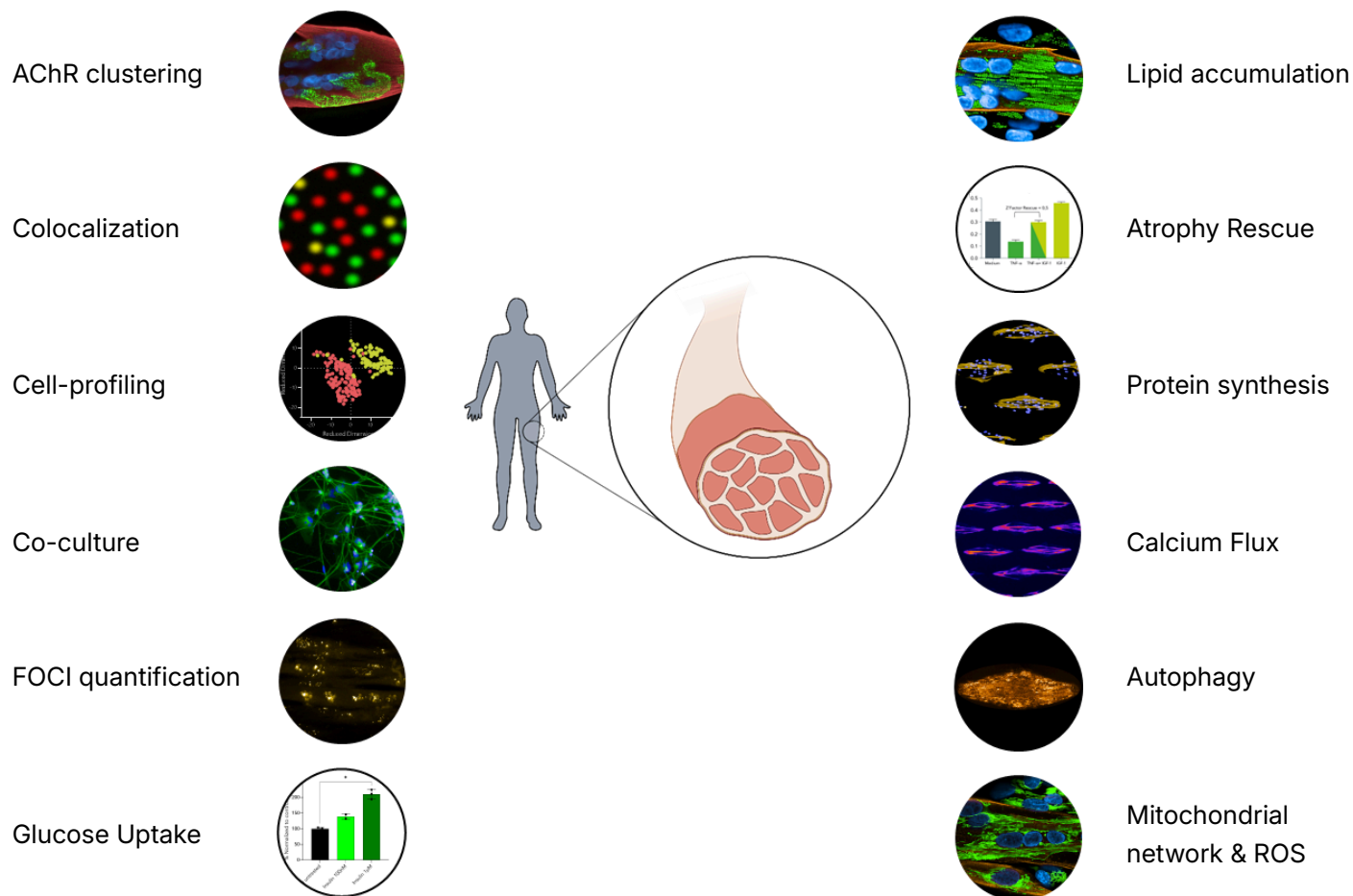
- Micropatterned plates
- 96- & 384-well format
- HTS-compatible
- >100 mini-tissues per well / 6,000+ per plate
- 5x lower variability
- Geometry-controlled tissue organization
- Population-level insight into cell-to-cell variability from a single experiment
- GMP compatible for clinical-stage testing

Comparative advantages

	CYTOO	2D	3D Organoids	In Vivo
Throughput	+++	+++	+	+
Robustness	+++	++	+	+
Physiol. Relevance	++	+	+++	+++
Spatial Info	+++	+++	+	+
Analysis Tools	+++	+	+	+
Transferability	+++	+++	++	+

Applications

- **Neuromuscular** – MN/myotube co-culture models
- **Gene Therapy** – FDA-validated potency approach
- **Skin, Kidney & cardiac** – Tissue models
- **Muscle** – Striated skeletal muscle platform MyoScreen™
Our readouts : Colocalization, Cell profiling, Co-culture, FOCI quantification, Glucose Uptake, Protein synthesis, Calcium flux, Autophagy, AChR clustering, Lipid accumulation, Mitochondrial network & ROS, Atrophy Rescue)



Key figures

11x faster cell fusion (24h)

5x lower variability

65+ donors banked

6x more sarcomeric myotubes

6,000+ mini-muscles per plate