



Instruments and software for automated live cell imaging and analytics -- providing more data and the right data for drug discovery

Products:

Thrive Bioscience delivers previously unavailable instruments and software that enable breakthrough insights and speed drug discovery by providing automated imaging and analytics of live cells and tissue in culture.

Benefits:

By improving cell culture imaging, Thrive products provide more data and the right data that increase the efficiency, speed, quality, and effectiveness of drug discovery and biomedical research, thus enabling new and better therapies.

Funding: Raised to-date: \$31M from family offices (Estee Lauder family, Milstein family), angel groups (Life Science Angels, SideCar), and former CEOs of Cytec, & Exact Sciences,

Intellectual Property: Thrive has an extensive portfolio of 86 patent applications of which 28 have issued covering imaging, analytics, automation, IoT, blockchain, and machine learning for drug discovery, biomedical research and bioprocessing.

Thrive's Board Chair & Management:

Board Chair – Michael J. Finney, (PhD, MIT)

Managing Director of Finney Capital; Former CSO, MJ Research (acquired by Bio-Rad) and former CEO, Vaxart (NASDAQ: VXRT). Board Member at The Genome Partnership, Innerscope Research, Orion Genomics, Sage Science (Chair), and Vaxart

President & Co-Founder - Thomas Forest Farb-Horch

Involved in the founding of 17 companies, 7 of which have had multi billion dollar exits -- Cytec, Exact Sciences, HNC Software, Indevus Pharma, and Retek, among others

CSO & Co-Founder - Alan Blanchard (PhD, Caltech)

Numerous instrumentation successes in DNA sequencing & DNA microarrays at Rosetta Inpharmatics (where he was a co-founding member), Agencourt Personal Genomics, Life Technologies and Applied Biosystems.

EVP, International - Takashi Kiyozumi, (MD, PhD, Keio U)

Entrepreneur and executive specializing in life sciences. Founder & CEO, MediciNova (NASDAQ: MNOV). President & CEO, Tanabe Research Labs, USA.

VP, Sales & Marketing (acting) - John Michalek

Experienced executive and former VP of Marketing at Axcend (HPLC), President of Acmic and Advanced Chromotography Systems.

VP, Software - Michael Moody, (MS, Northeastern Univ)

Software engineering leader. VP, Software Development, Implant Sciences (L3 Technologies) and Principal Software Engineer at Powerwave Tech and ADC Telecommunications.

Reproducibility Crisis in Biomedical

Problems in cell culture and cell-based experiments have created the “reproducibility crisis”.

50% to 80% of biomedical research results cannot be validated by other labs, wasting money & slowing cures for patients.

Not Enough Data or the Right Data in Drug Discovery

Yet cell culture & collection of data on cells is conducted similarly to 70 years ago – manually and without enough data or the right data

Data collection on live cells is inconsistent, insufficient, highly variable and not comparable across experiments and across labs – this leads to wasted research and slows the pace of bringing drugs from lab to market.

The Solution – Enough Data and the Right Data

With Thrive’s CellAssist family of instruments and software, researchers can reliably culture, image and analyze cells and tissues and conduct experiments reproducibly.

Thrive’s systems increase the efficiency and effectiveness of cell-based experiments and provide previously unavailable data, insights and quality control.

CellAssist® .5m x .5m x .4m	CellAssist 50 1.0m x .7m x 1.8m	AutoCellAssist (2025) 2.4m x 1.0m x 1.8m
CellAssist -- Bench-top instrument that rapidly captures and analyzes images of cells and organoids with 100 focal planes 2 μm to 50 μm apart in single 6- to 384-well SBS plates. The system also extensively documents cell culture laboratory processes and inputs.	CellAssist 50 -- A CellAssist imager with an integrated incubator which automatically builds databases of extensive quantities of time-series images of its 50 cell culture incubated plates.	AutoCellAssist -- Full walk-away cell culture automation with robotics and fluidics combined with intelligent imaging from the CellAssist, all in a closed environment. (Available 2025)
Software Modules -- Thrive has under development software modules for important workflows in drug discovery and biomedical research for rapid plaque assays, 3D cell structures, stem cell differentiation, single-cell tracking, and colony monoclonality determination. (Available 2023+)		