



Accelerating Assurance

Enhanced cell line development workflows
for successful IND submissions

Solentim technology transforming workflows

Reducing timelines while building assurance

For over a decade, Solentim technology has helped biotherapeutic businesses to accelerate cell line development workflows, develop assured processes, maximize efficiency and deliver numerous successful INDs.

Halving the timeline

Genmab, the largest independent biotechnology company in Europe.

Previous workflow: ClonePix

Assurance: two rounds of cloning plus statistical calculation

Validation timeframe: 1.5 years

Workflow time: 26 weeks

New Solentim workflow: VIPs and Cell Metric

Assurance: double-lock, image-based

Validation: 2-3 months for conversion

Workflow time: 10-13 weeks



Doubling outgrowth

Janssen R&D, the number one pharmaceutical company in the world, based on 2020 revenues.

Previous workflow: ClonePix

Assurance: two rounds of cloning plus statistical calculation

Cell screening workflow: 10 weeks

Colony outgrowth: 18%

New Solentim workflow: VIPs

Assurance: double-lock, image-based

Validation: 6 weeks

Colony outgrowth: 31%



Start-up to IND

Biotheus Inc., a start-up with successful IND filing

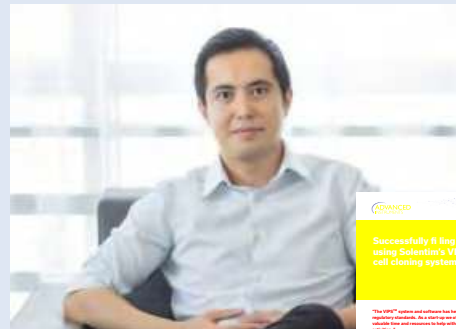
Solentim workflow: VIPS

Comparison to limited dilution: three-fold faster

Assurance: double-lock, image-based

Number of plates: 20

IND submission: successful



Celonic AG, a contract development and manufacturing organization (CDMO) specializing in biologics manufacturing from mammalian cell lines.

Previous workflow: limited dilution and FACS

Assurance: statistical

Workflow: 29 weeks

Number of plates: 500

Colony outgrowth: 28%



New Solentim workflow: addition of VIPS

Assurance: double-lock, image-based

Workflow: 17 weeks

Number of plates: 20

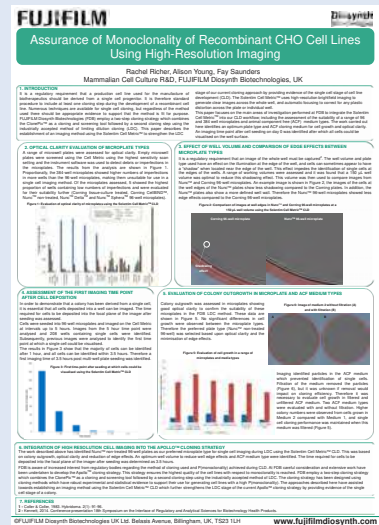
Colony outgrowth: 60%

Colony outgrowth: 31%

Micro-droplet workflow assurance

FUJIFILM DIOSYNTH, a CDMO using Cell Metric with Sphere Fluidics platform.

Provides visual evidence of monoclonality from different instruments at varying time points.



"The Cell Metric clonality reports are a critical component of our CLD workflows. Following cell line development custom service projects, we provide these reports directly to our customers for use in their IND filings."

MilliporeSigma

"VIPS and Cell Metric enables us to provide faster and better services to our customers."

Shanghai OPM
Biosciences Co. Ltd.

For a copy of our latest
product brochures visit:
www.aicompanies.com

The tools to build the ultimate workflow

With innovative products including Leap-in Transposase®, VIPSTM, Cell Metric®, ICON™, STUDIUSTM and the advanced Insti range of cell growth supplements, Solentim technologies are your building blocks for faster, more assured workflows. Whereas previously it took months with statistical probability-based reporting, it's now weeks with solid, double-lock, image-based confidence.


Solentim continues to invest in the future of cell line development and its expanding importance beyond therapeutic monoclonal antibodies into gene therapy and vaccine development workflows.



Cell Metric®
The trusted standard for clonal assurance

High contrast imager for single cell identification and clonal outgrowth characterization







VIPSTM Verified In-Situ Plate Seeding
Accelerating workflows for single-cell cloning


High efficiency, single cell seeding with enhanced, image based regulatory assurance.







ICON™
The new measure of productivity

The all-in-one benchtop instrument for the selection of leading clones.





STUDIUSTM
The new standard for cell line development

Data Management Solution for Cell Line Development Projects





About Advanced Instruments

Advanced Instruments is a global company offering a novel portfolio of analytical tools including, OsmoTECH®, a robust line of micro-osmometers to support bioprocessing and quality control (QC), and Solentim, a portfolio of best in class imaging and single-cell deposition technologies for cell line development workflows and assurance of clonality for regulatory bodies.

Our Solentim portfolio enables the clonal isolation, outgrowth, and characterization of the highest value cells for monoclonal antibody upstream development and cell and gene therapy. This enables our customers to use these clones and have the documentation they were clonally-derived to confidently form their Master Cell Banks.



Two Technology Way/ Norwood, Massachusetts 02062, USA
800-225-4034 | 781-320-9000 | www.aicompanies.com

©2022 Advanced Instruments. OsmoTECH®, Cell Metric®, VIPS™, ICON™ and STUDIUS™ are trademarks of Advanced Instruments. InstiGRO™ is a trademark of SAL Scientific Ltd. Leap-in Transposase® is a trademark of ATUM Inc. All other trademarks are the property of their respective companies.



ML-001 Rev:001

Request a quote or demo: aicompanies.com