

A large teal circle with a lighter teal border, partially visible on the left side of the slide.

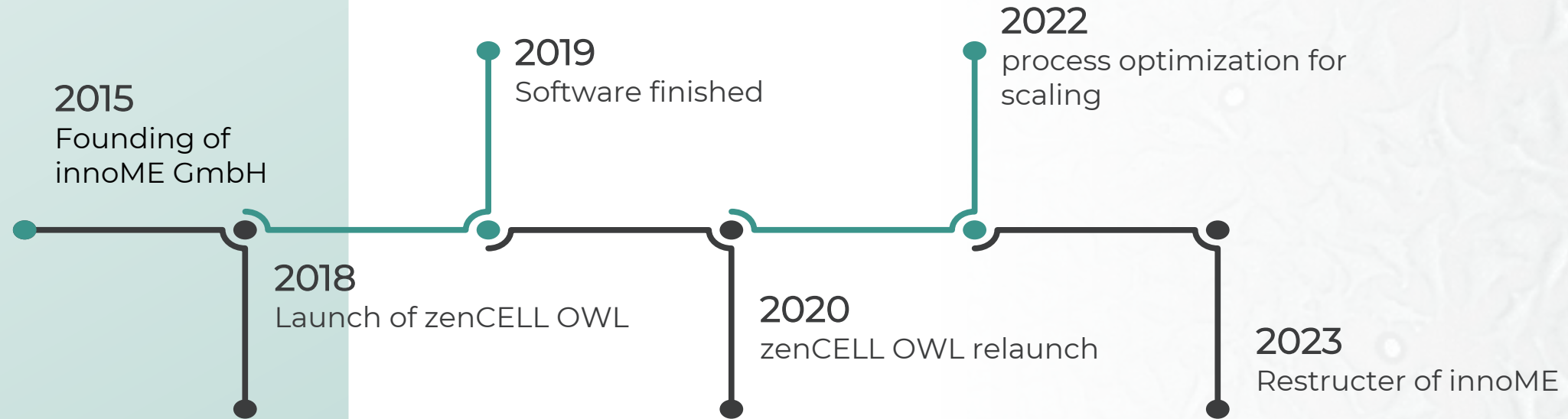
# Live Cell Imager

## Reproduction with Time Stamps

*zen*CELL

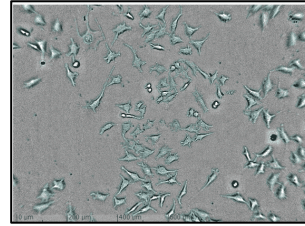
Cell culture branch of innoME GmbH

# History

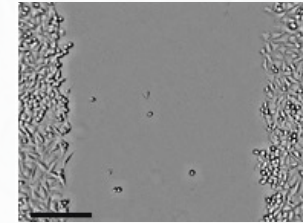


# Main Applications

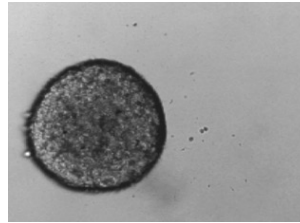
.Cell culture monitoring



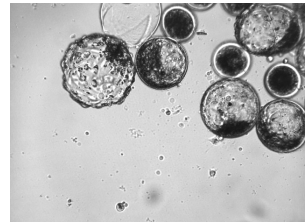
.Scratch / Wound healing assay



.Spheroid / Organoid

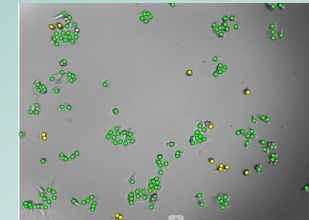


.Animal IVF



## New AI

.Cell Counting



# Technical Details

zenCELL OWL



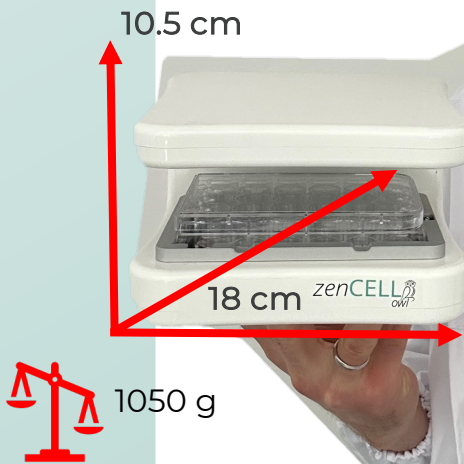
# Features & Technical details



Cell alerts



Automated  
Cell analysis



24 miniature microscopes



LED



1.2 x 0.9mm FOV



10x magnification (+digital zoom)



Powered with USB 3.0 cable

# More Technical Details & Software



Label-free

Digital phase contrast



5 MP CMOS  
2592 x 1944 res



20s per vessel



4 mins – 24h per interval



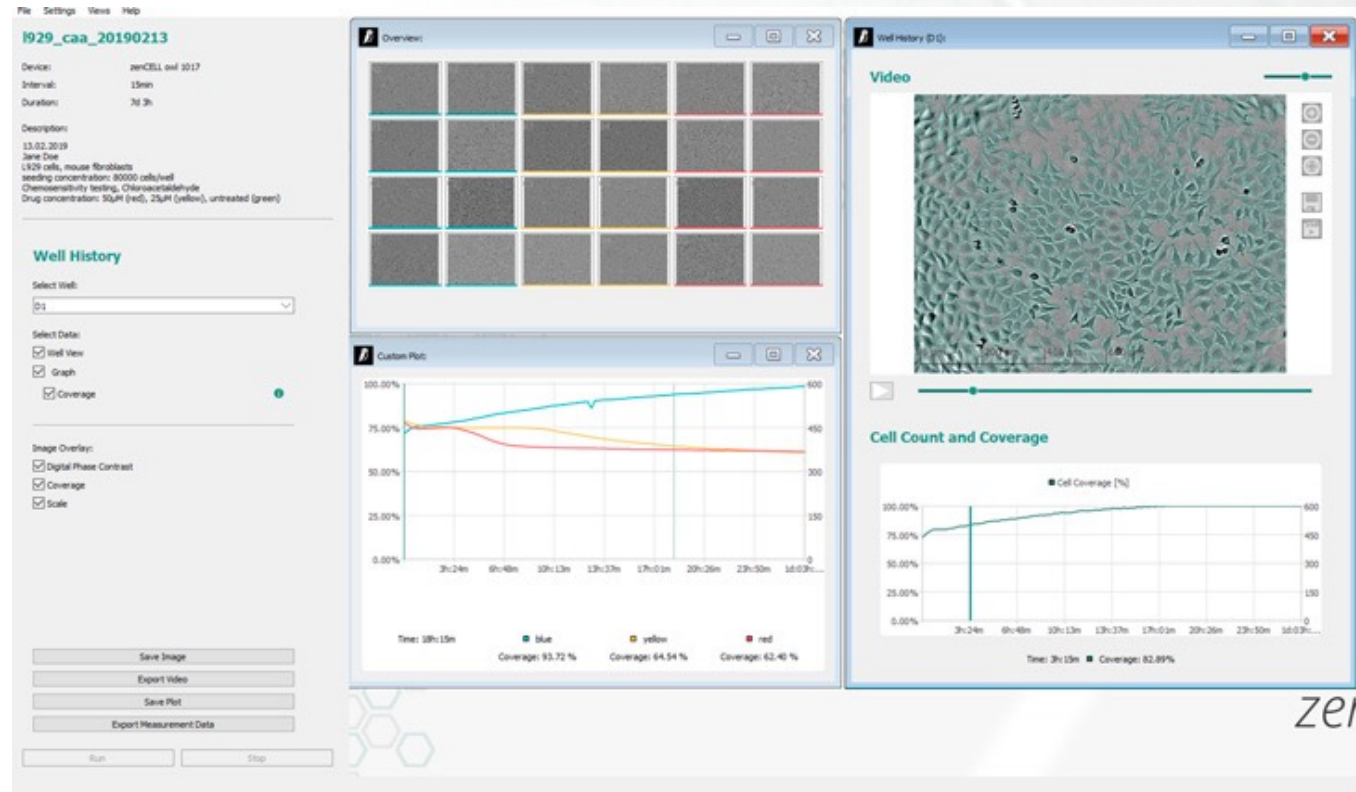
Duration depends on storage  
space



Cell count & confluency  
algorithm



PNG, JPG, BMP  
AVI  
CSV

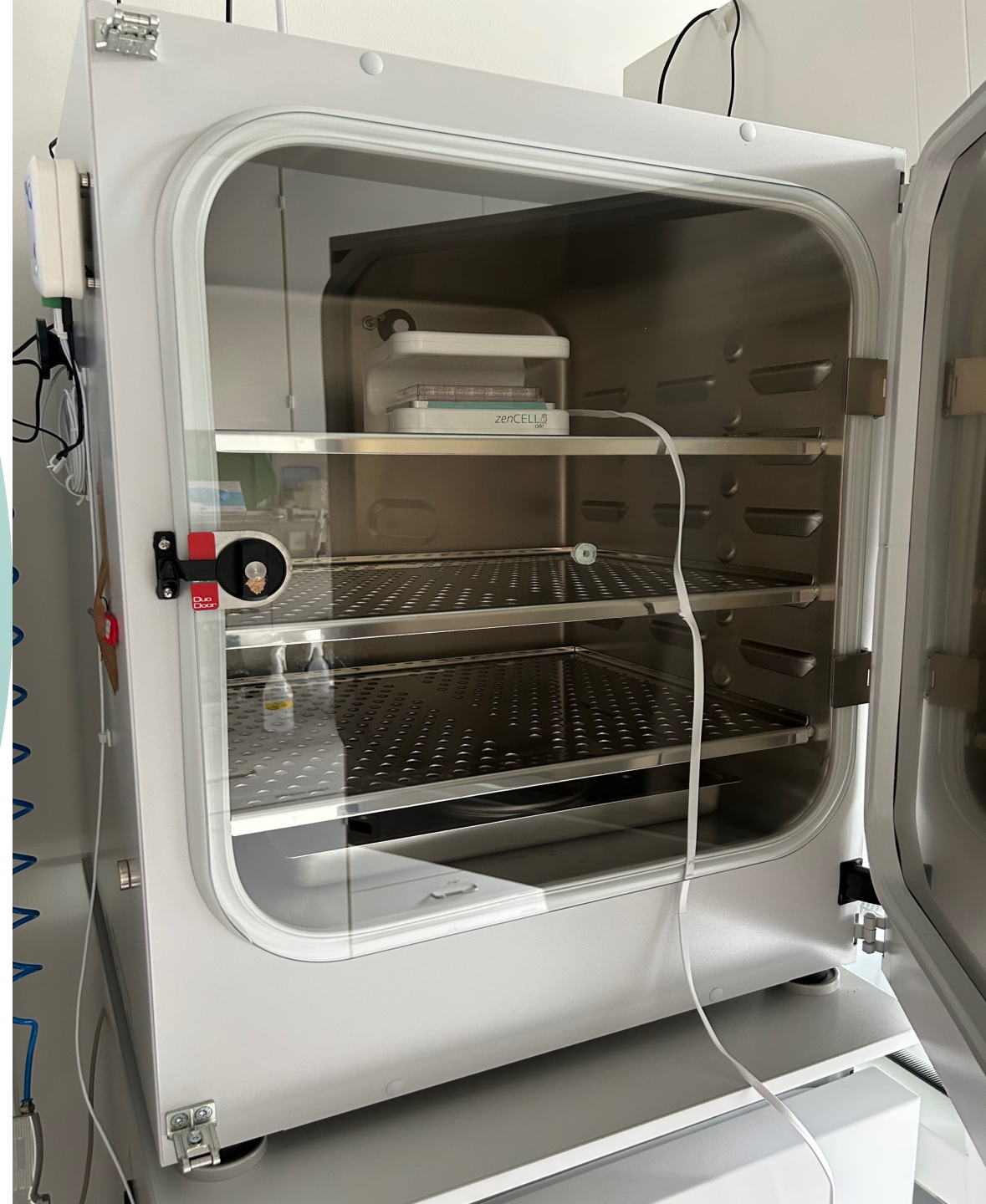


# Remote access



# Applications

zenCELL OWL

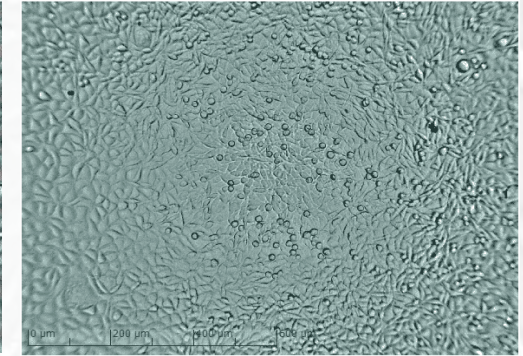
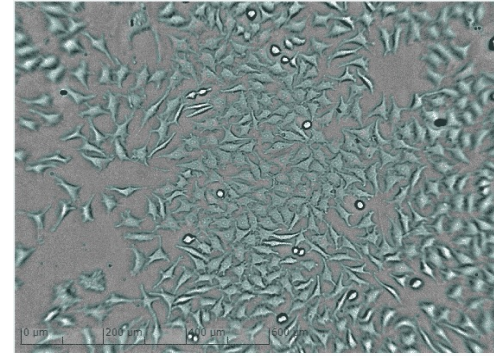
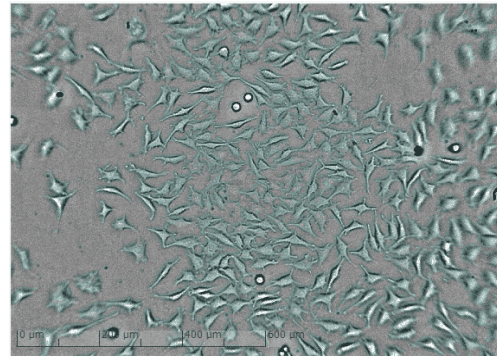
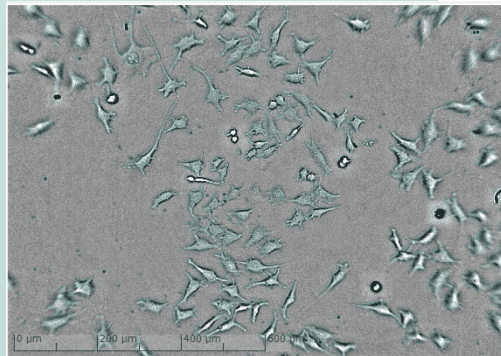
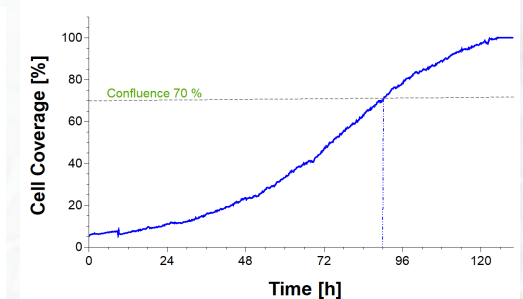
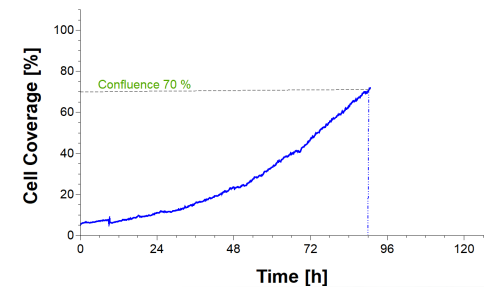
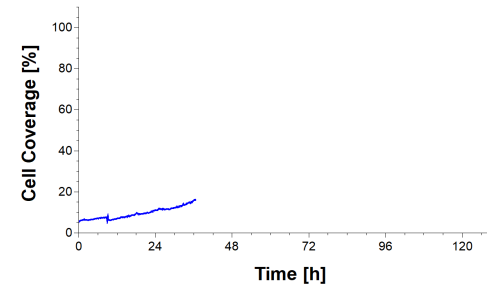
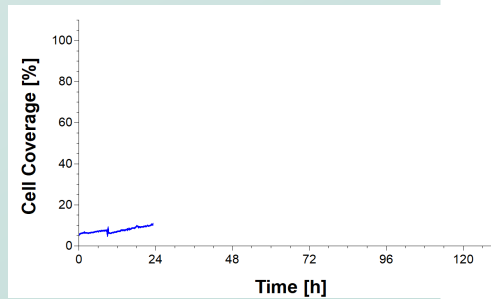


# Cell Culture Monitoring

- Real-Time
- Confluency and Cell Count
- Customizable Algorithm

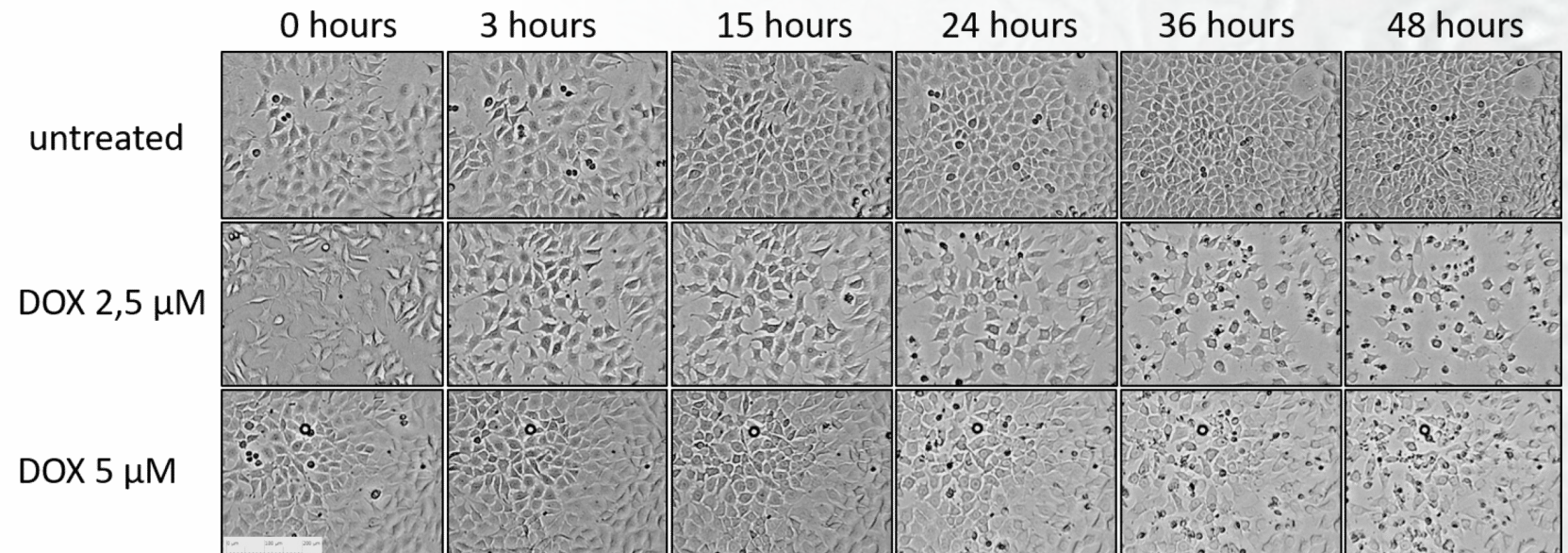
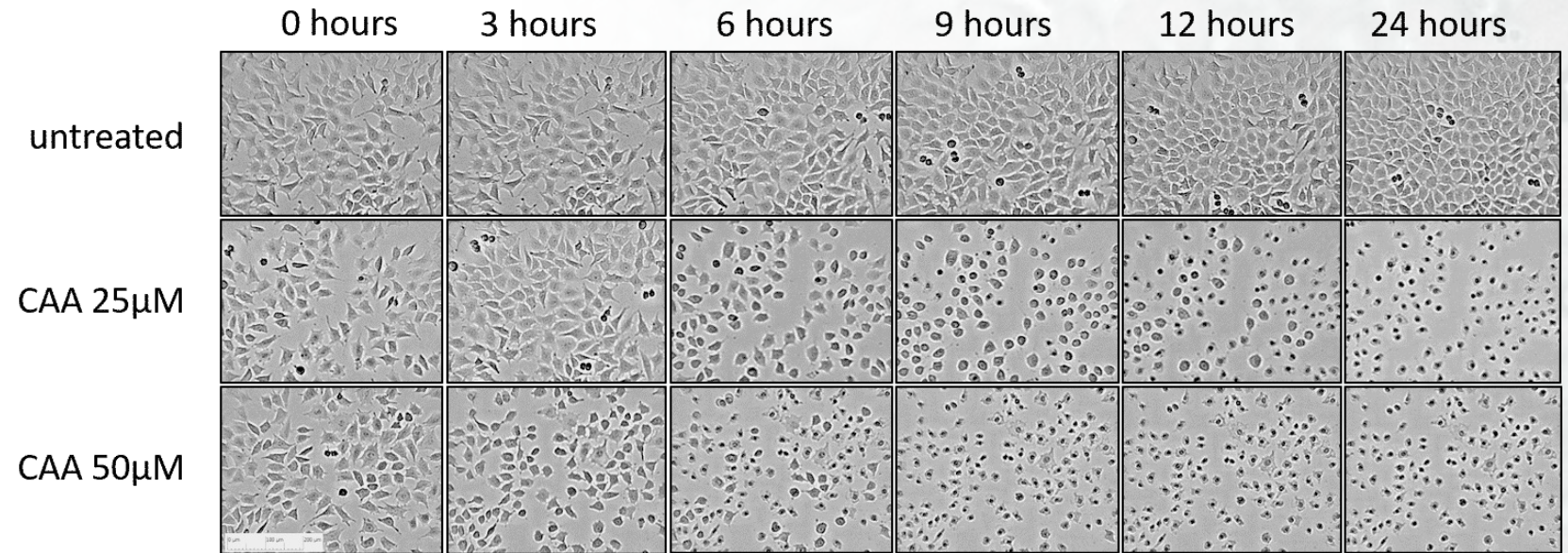


- Remote access



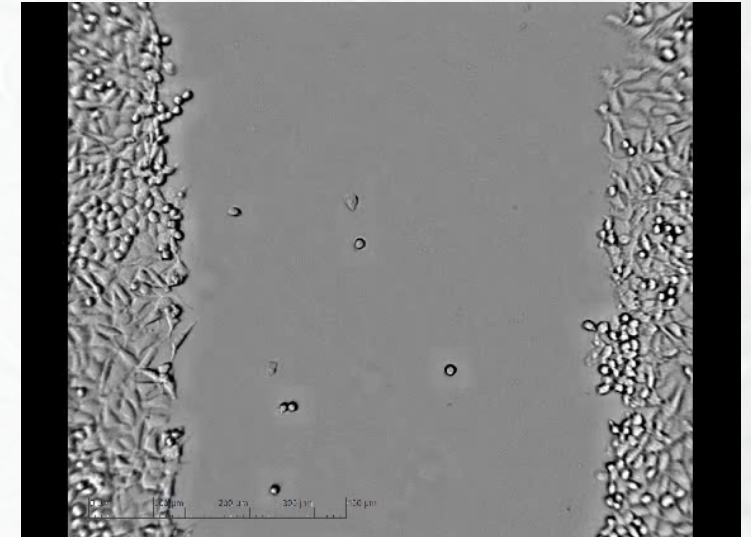
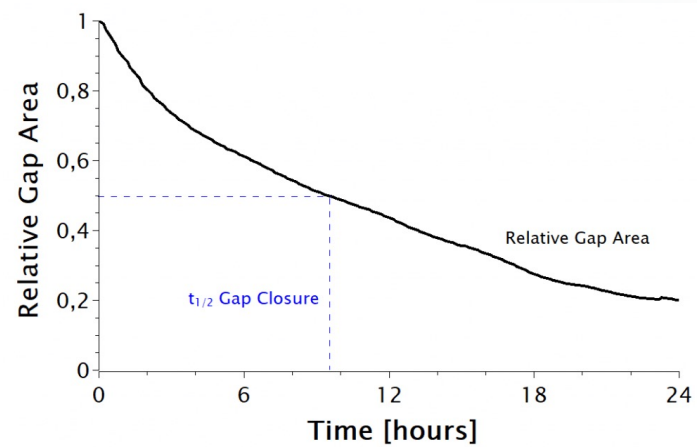
# Cytotoxicity Assay

- Algorithm can learn morphological changes
- Automated Quantification
- Label-free
- Real-Time
- Parallelization



# Scratch Assay

- Time-Lapse Recording
- Confluency
- Cell Count
- Video Creation
- 24 Experiments in parallel



0 hours

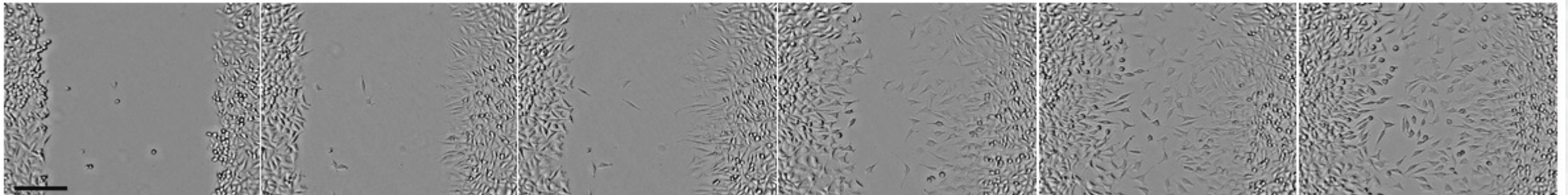
1 hour

3 hours

12 hours

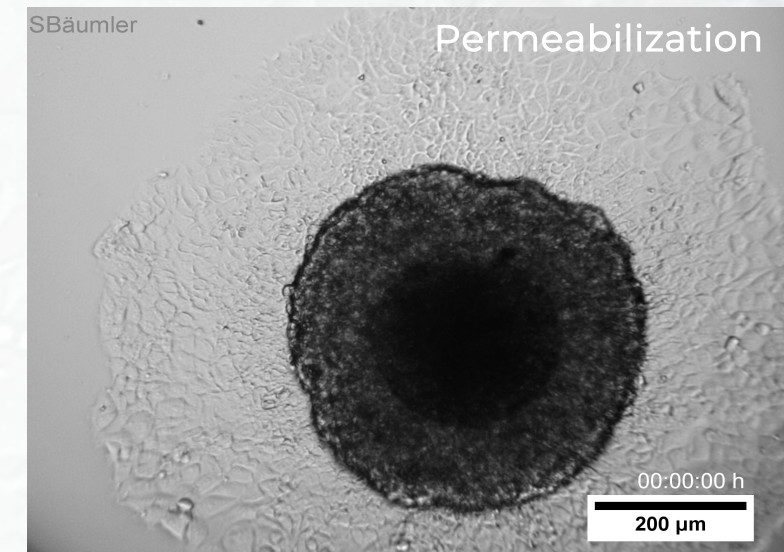
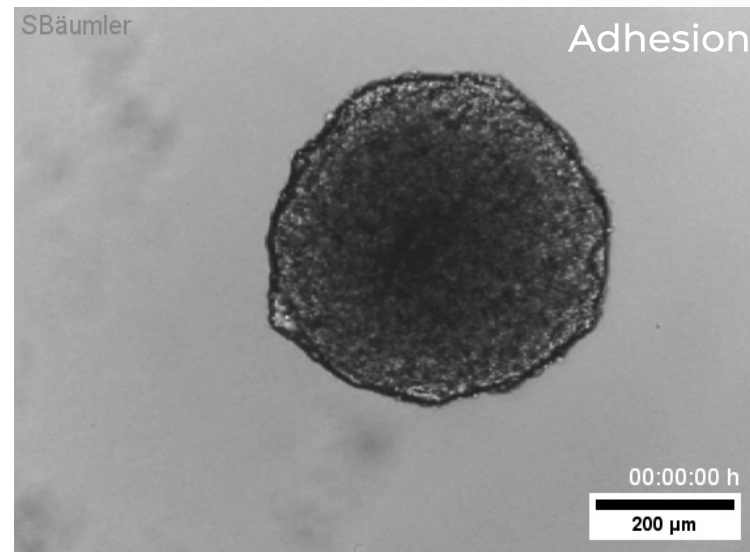
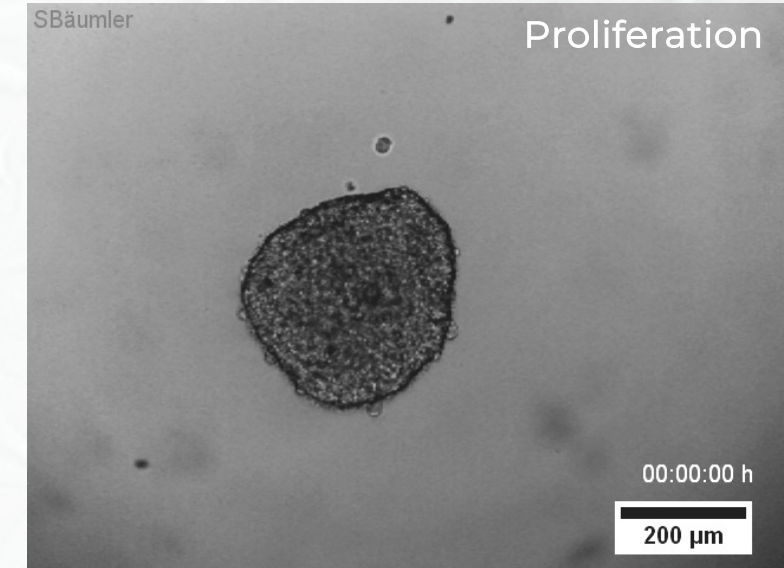
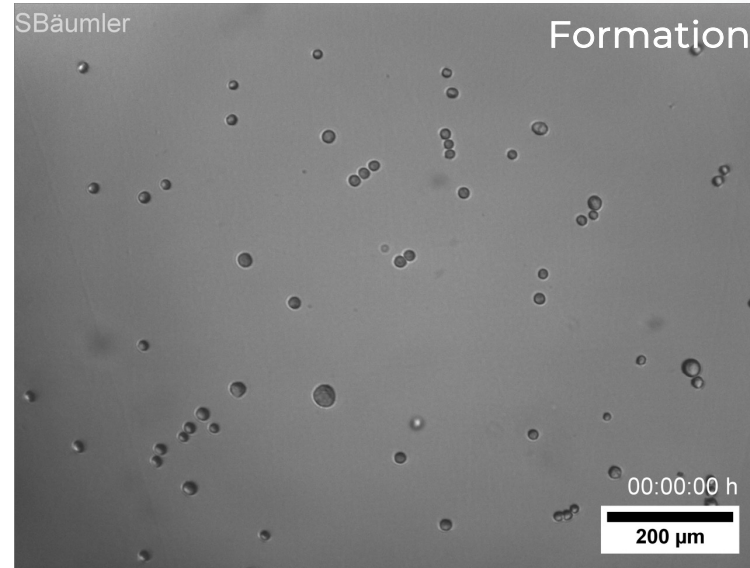
18 hours

24 hours



# Formation of Spheroids

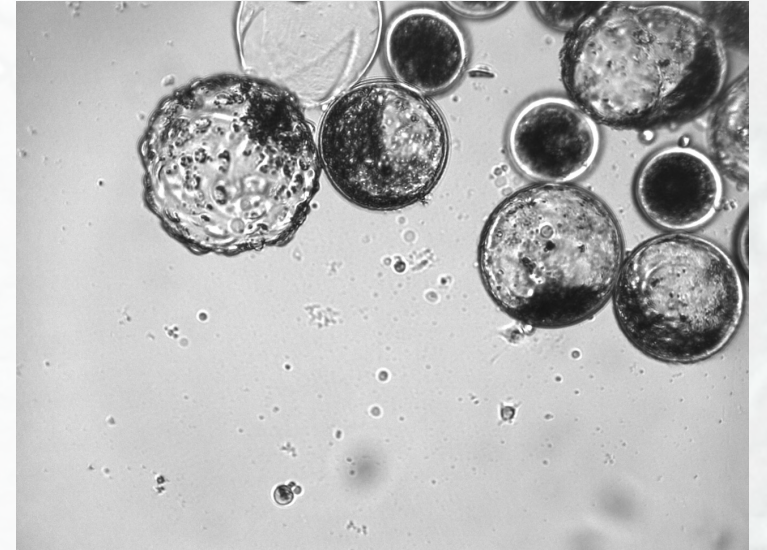
- Place on a Shaker
- Label-free Quality Control
- Real-Time Imaging



# Animal IVF

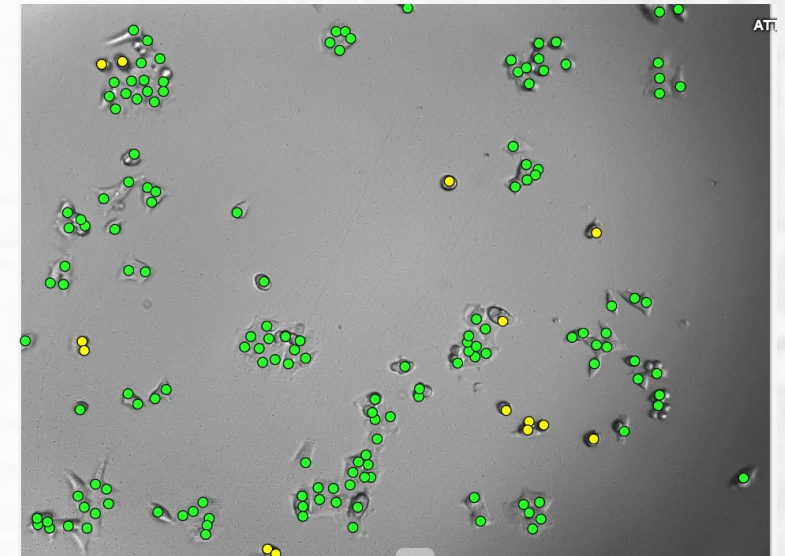
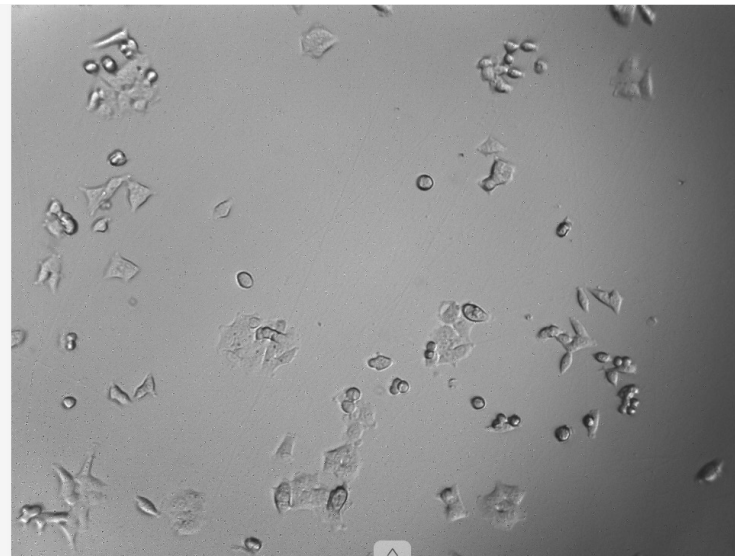
- Place in each incubator
- Label-free Quality Control
- Real-Time Imaging

Formation



# Cell Counter

- Counting Algorithm by AI
  - Customizable Algorithm
  - Remote Access
- 
- Example for L929 mouse cells



# Products

---

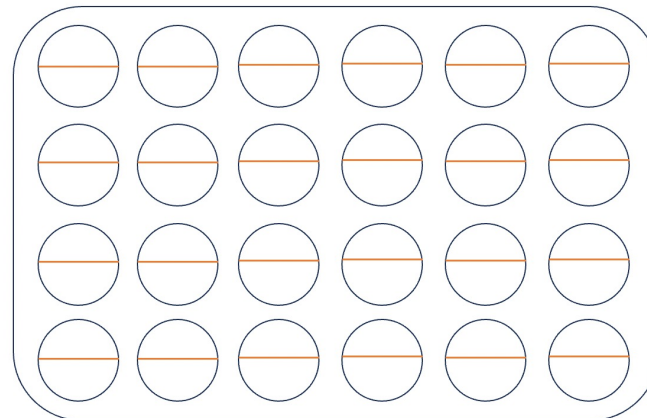
More Reproductive solutions

# Scratch Assay Tools

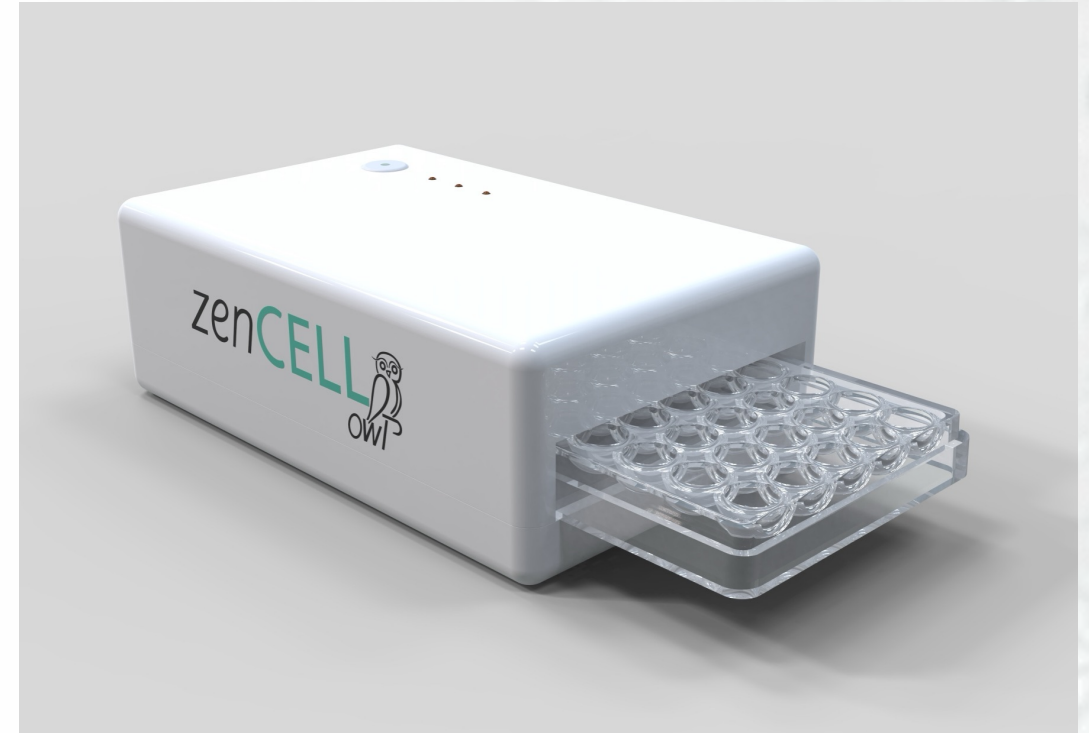
- 1 minute time
- No software needed
- Reproducible each time
- Different masks available

## Example Mask

24 Well Platte



- Device
- Well Plates
  - 6, 12 & 24



# THANK YOU

Contact our Team under:

[info@innome.de](mailto:info@innome.de)

+49 89 215 3770 00

## zenCELL

Cell culture branch of innoME GmbH