

Cell Culture: Standardize your Experiments for consistent Results

Always know the perfect Time-Point for your Experiment

Working with living cells can be challenging. Depending upon your preferred experiment, the cells should ideally have a certain morphology, size, confluency, transfection efficiency among many other characteristics critical to your experimentation.

These characteristics can differ from day to day, or sample to sample. Thus, regular cell checks are an essential prerequisite, reaching comparable and consistent results between different experiments. This requires a certain amount of time and effort.

PAULA – the Personal AUTomated Lab Assistant from Leica Microsystems – helps you to find the perfect time-point for your experiment. With the help of the Confluence app, PAULA precisely measures the confluency of your cell culture. PAULA can even be operated at 37°C, 5% CO₂, and in humidity so that you can observe your cells in their natural state.

PAULA can also inform you by e-mail in case your cell culture reached the desired confluency level. With this information you will never miss the perfect time-point for your transfection or any other assay.

Typical fields of research

- Cell culture
- Stem cell research
- Organoids
- Spheroids
- Wound healing

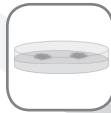
Features

- Adjustment free phase contrast
- Red/green fluorescence
- Operation in cell incubator
- Automated confluency measurement
- Monitor your cells from everywhere at every time*

*For mobile access PAULA needs internet connection via Wifi or Ethernet cable.



Cell Culture Workflow for Standardized Experiments



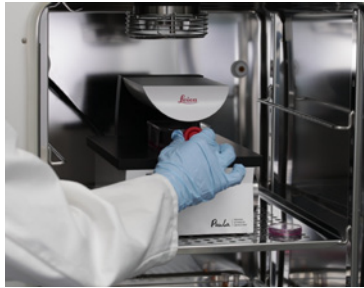
Cell Seeding

Seed your cells on your preferred cell culture container. Place them at the stage of PAULA – inside your incubator!



Cell Growth

Let the cells settle down and start growing. Define a preferred confluence value, and get notified when that value is reached!



PAULA can be operated inside the incubator at 37°C and saturated humidity.



Cell Check

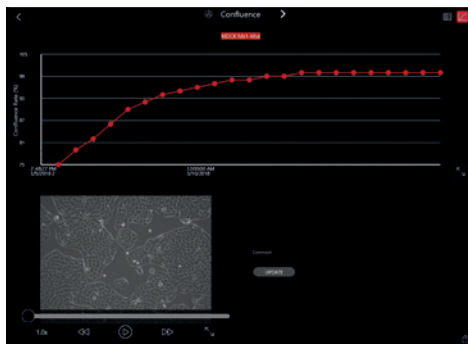
Check your cells remotely with PAULA and your mobile device via the Confluence App.



Leica provides: Continuous observation

Find the right time-point for your experiment

PAULA detects the confluency of your cells continuously. So, there is no necessity to control the cells by hand. Instead they can stay in the incubator all the time – without your help, without touching them. You can either watch them on your mobile device or just get informed by e-mail in case the cells reached a desired confluency.



Transfection

After you are notified about the desired confluency status of your cells, you can transfect them.



Cell Check

Continue watching your cells remotely. Check the result of your transfection with the help of two fluorescence channels.



Analysis

Analyze the cells with your preferred analytical approach: Fluorescence microscopy, biochemistry, molecular biology etc.



DEMO AND
DETAILS



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#howaremycellstoday
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