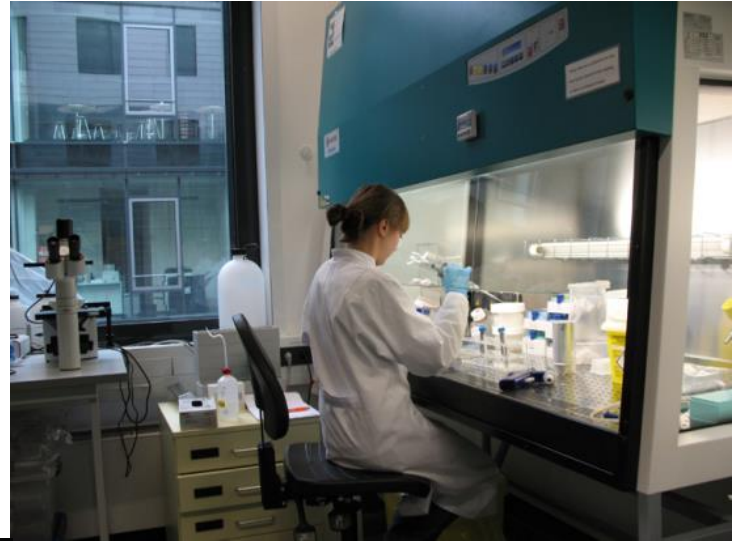


# **Equipment around Operetta**

The main purpose is to provide standard conditions for cell culturing, treatment and analysis

# Cell culturing

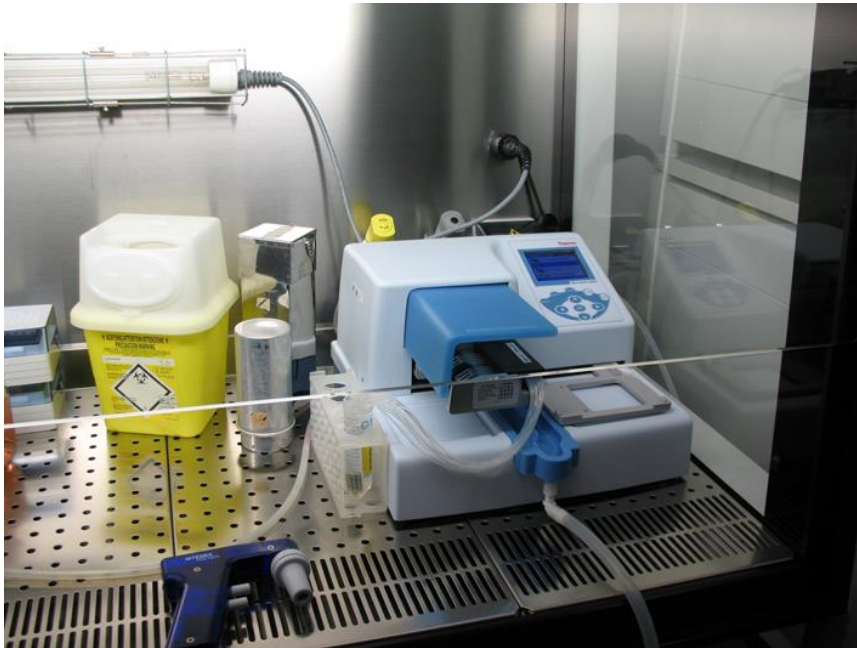
Special CO<sub>2</sub> incubators for tested and not tested cultures



Checking percentage of dead cells every time when passing the culture. Seeding a certain number of cells per flask every time.

# Plating cells

The number of cells per well has to be approximately the same in the entire experiment.



In case of 1 or 2 plates, multi channel pipette is used.

When the number of plates more than 2, the cells are plate by a Multidrop dispenser from Thermo Scientific.

# Staining of plates



Pipette tips should take out all liquid but should not touch well bottoms.

Pipette tips should enter all wells in the same way to make the staining even.

The automatic workstation treats all wells in exactly the same way in exactly the same time.

Several plates can be stained in parallel.



# What do they use Operetta for

- Titration various concentrations of a limited number of substances
- Mini content screens
- Statistical microscopy.

Effects of various compounds/ expression contracts/ external stimuli on cell cycle, cytoskeleton organisation, cell migration, apoptosis, and so on



# How do they perform high content screenings

There is a special room where all these devices are integrated



# Thank you

