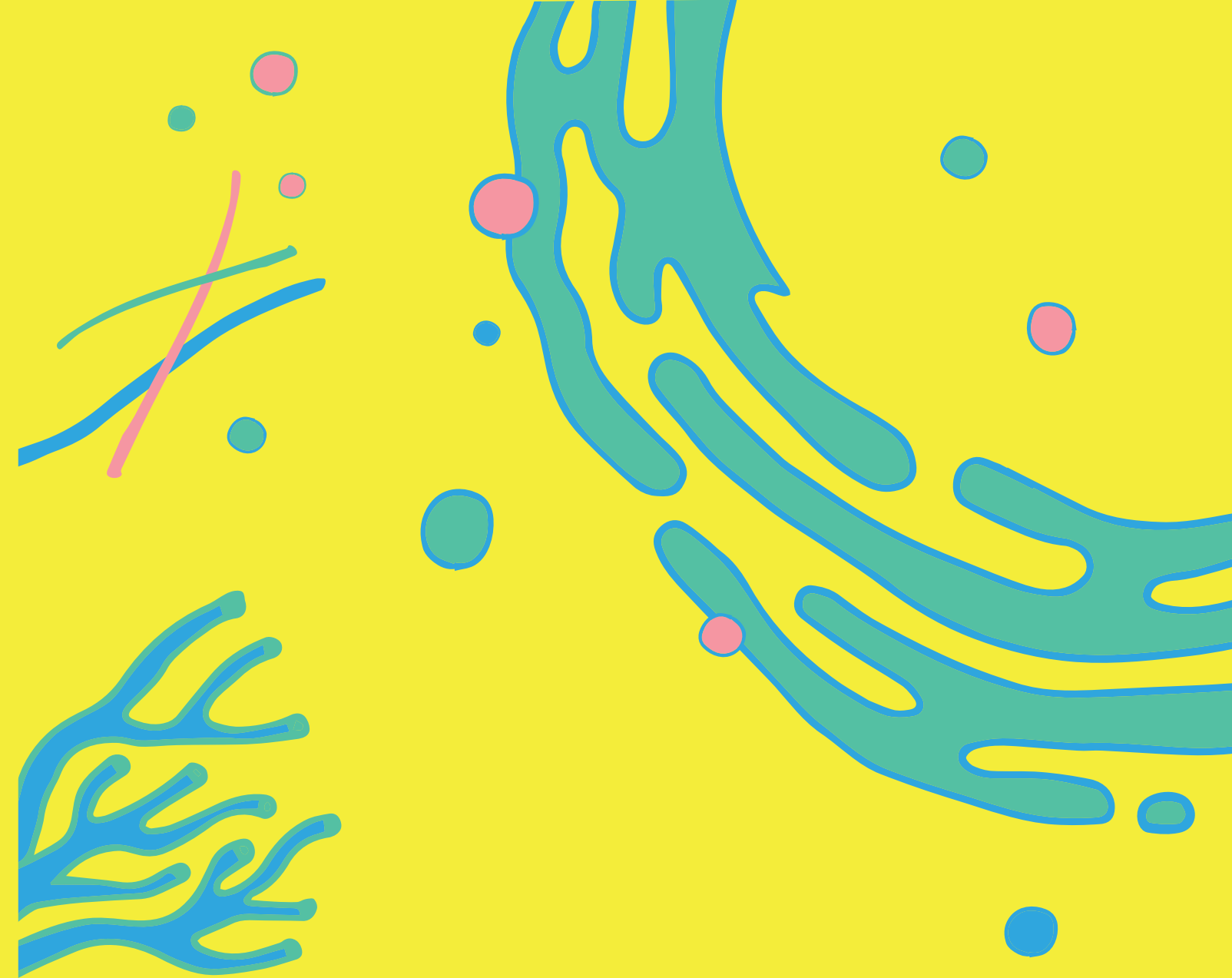
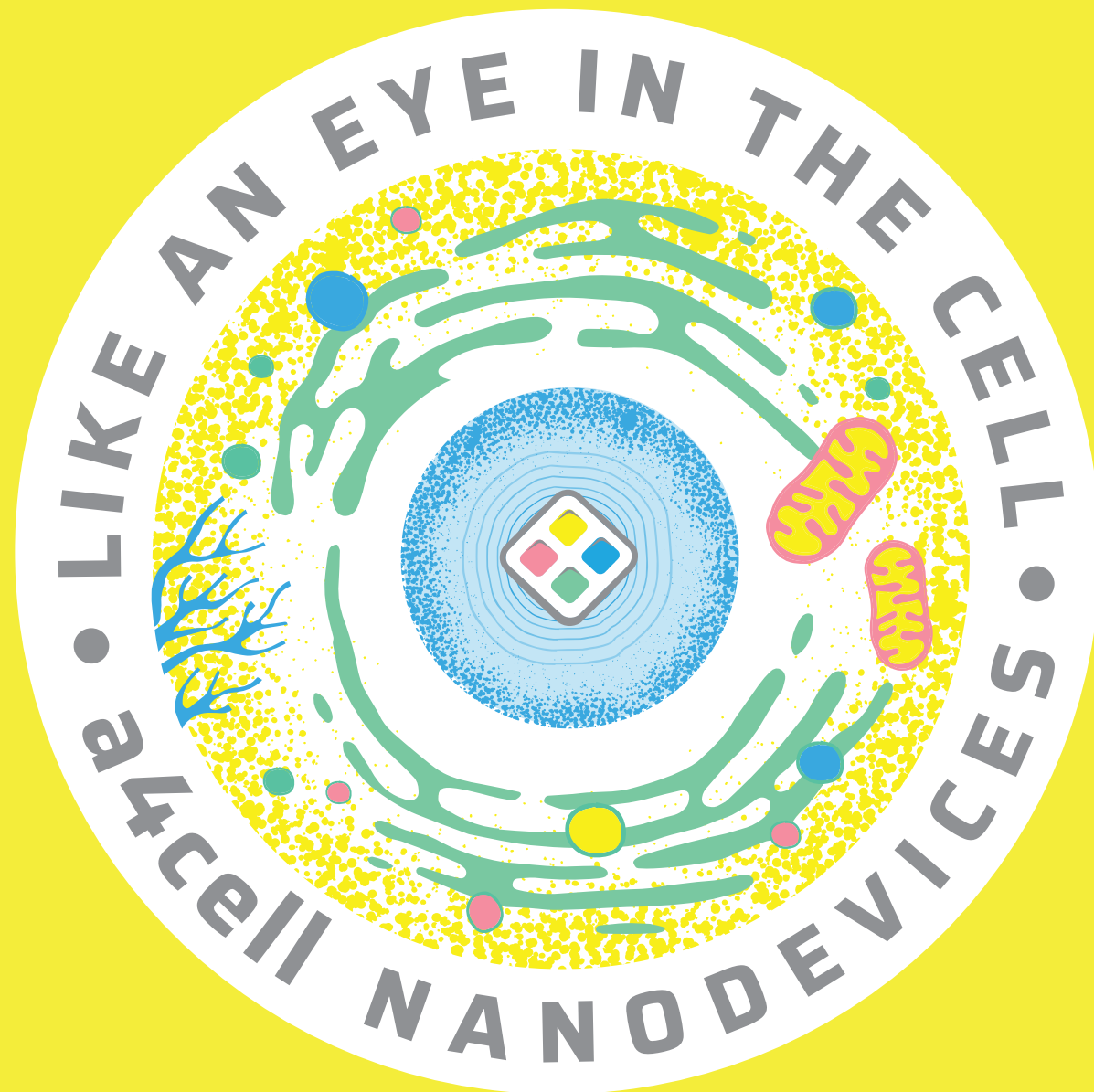


Imagine having an eye  
inside a living single cell  
and study whatever process  
is happening in that instant



**ARRAYS FOR CELL NANODEVICES, SL**  
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## **SPAchip® Lab-in-a-cell solution**

Based on functionalized silicon microchips with  
fluorescent probes to monitor intracellular physiological changes

# Reagents: CytoCHECK SPAchip® Detection Kits

SPAchip® works in living single cells and tracking them over long periods detecting several parameters simultaneously

## CytoCHECK SPAchip® pH detection kit

## CytoCHECK SPAchip® Calcium detection kit



# Tailor R&D SPAchip® services and assays

Our complete set of services include feasibility, assay development, optimization and screening

**Your perfect CRO partner for drug discovery assays based on SPAchip® devices**

### Main Applications:

Oncology, Metabolism, iPS Cell, Neuroscience, Cardiovascular, Cell thera

### Offered services

- pH and Calcium monitoring
- In living single cells
- Cell proliferation
- Cell viability
- Cell death analysis

### Laboratory infrastucture

- Operetta Poenix
- Cell incubator
- Fluorescence microscopy
- Flow Cytometry
- Data treatment softwares

### General living single cell benefits

- Non-toxic for living single cells
- Intracellular monitoring over long time
- Reduce time during workflow
- Several parameters simultaneously
- Ready-to-use, robust workflow, including demonstrated
- Designed protocols for various cell types
- Easy-to-use in combination with image analyzers or flow cytometers
- Suitable for all culture plates and flasks
- Cell type flexibility, no lower limits
- Industry leading cell capture rates of up to 65%
- Low doublet rates of < 0.9% in 1,000 cells captured

### Assay SPAchips® preparation

**1-Dissolve SPAchip solid film.** adding 1 mL of assay buffer to Assay SPAchips® tubes and mix until complete solubilization of the solid film (vortexing is desirable).

**2-Centrifugate the tubes.** Approx. 4300 xg (8000 r.p.m. in a 6-cm minispin rotor) for 10 minutes.

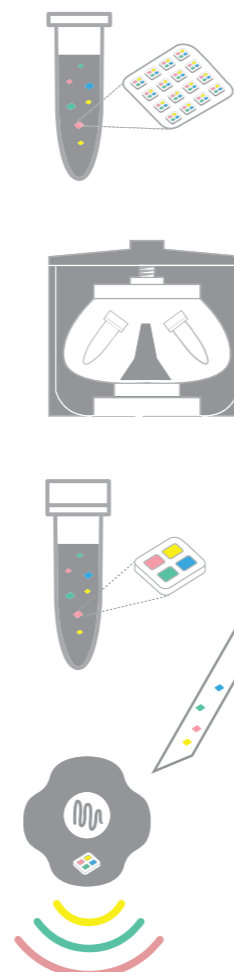
**3-Aspire very gently and discard supernatant.**

**4-Resuspend pellets** Within 1 mL of assay buffer.

**5-Repeat steps 2 and 3.**

**6-Resuspend the pellet** In 100 µL of assay buffer. This should yield to approximately 2.5x10<sup>6</sup> SPAchips®/mL.

Once prepared, Assay SPAchips® can be stored at 2-6°C protected from light for up to three months.



### Tailor made solutions

Assess dyes and reagents  
Cell models and culture formats  
Treatment paradigms  
Reference and controls  
Imaging strategy

### Development

Optimization of prototype assay  
Min-screens to test scalability  
Statistical robustness  
Run to run and key reagent variatiion

### Screening

Monthly or quarterly data reports  
Feedback into parallel programs

**Create your own cell-based assay  
with SPAchip® devices**