

NANOLIVE's novel CX-A defines a new standard for live cell imaging in 96 well plates for continuous organelle monitoring in cell populations

Based upon [Nanolive](#)'s CX imaging platform (non-invasive – label-free - 3D - high-resolution), the new [CX-A](#) delivers a unique walk-away solution for long-term live cell imaging of cell organelles, single cells and cell populations at physiological conditions.



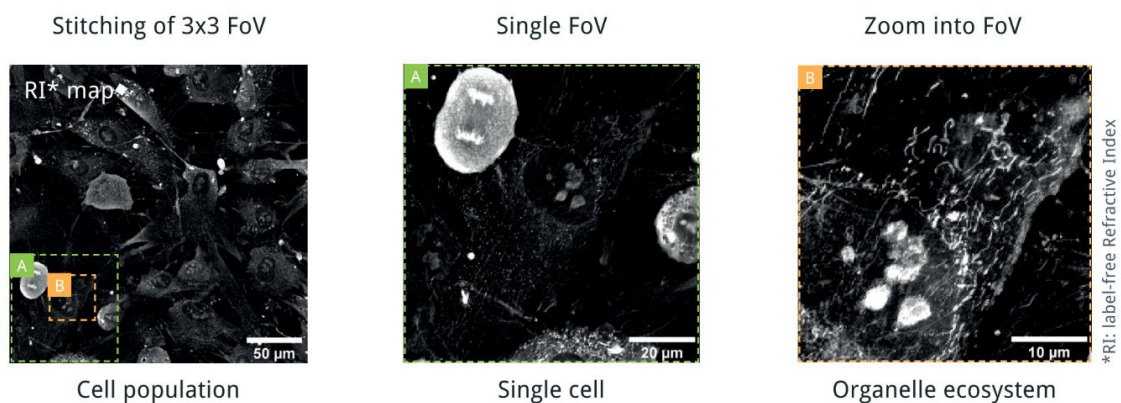
Nanolive's new CX-A. The first labelfree live cell tool for automated live cell imaging

July 15th - Ecublens, Switzerland – Nanolive announces today the market launch of the CX-A (www.nanolive.ch/cx-a), the first microscope to combine the power of non-invasive, 3D Nanolive imaging with the throughput of automation.

OBSERVE LIVING CELLS, FROM POPULATION TO ORGANELLES

“Every new discovery starts with an unprecedented observation. We have created a unique tool to seamlessly follow cells from the macro level of cell populations, down to their individual organelle ecosystem” says Dr. Sebastien Equis, Nanolive's co-founder and CTO.

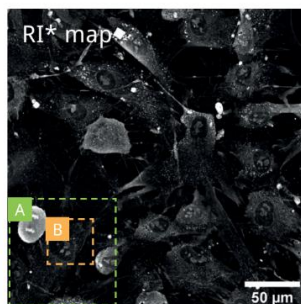
Nanolive's new product: the CX-A (www.nanolive.ch/cx-a) extends the exploration of living cells from single cells to cell populations without compromising on the highest precision and resolution proper to all Nanolive products. It enables scientists to investigate macro cellular dynamics like cell health, proliferation, movement and function as well as micro organelle dynamics and interactions e.g. mitochondrial network characterization.



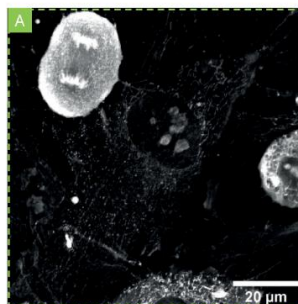
Stitching of 3x3 FoV

Single FoV

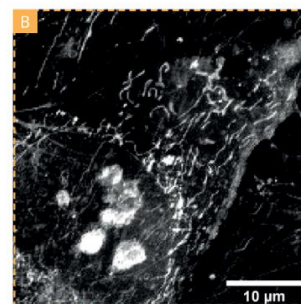
Zoom into FoV



Cell population



Single cell



Organelle ecosystem

* RI: label-free Refractive Index

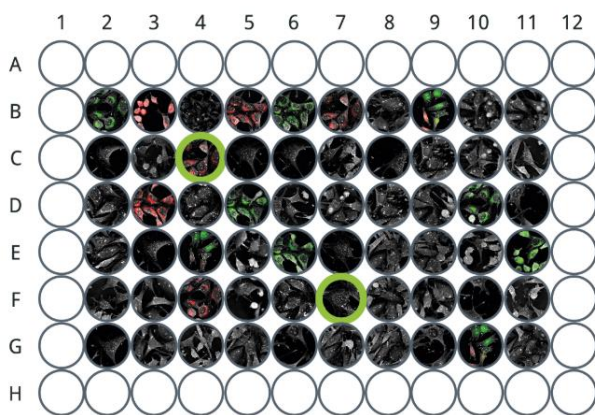
MULTIPLEX LIVE CELL SPECS

Nanolive's CX-A is designed to work with 96 well plates to multiply and parallelize experimental conditions, hence, bringing undoubtable significance to each experiment and delivering solid biological insights to researchers.

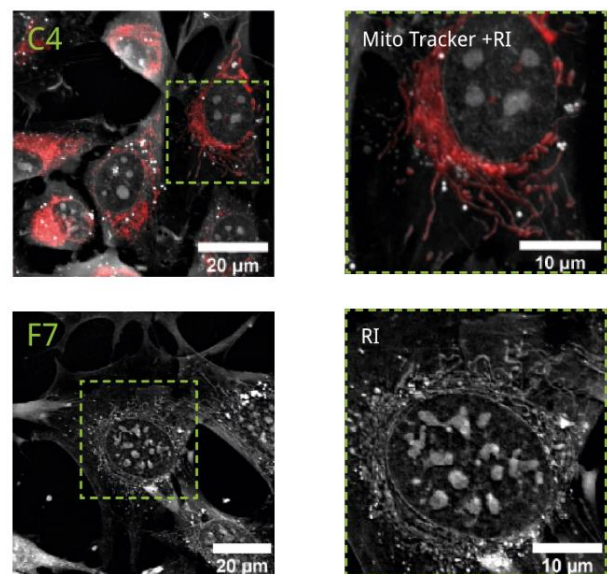
Furthermore, the system is equipped with multiple imaging modalities to correlate and compare physical and chemical information at each time-point. A fully integrated solution adapted to the most advanced professional needs.

Finally, in order to truly create an immersive and holistic experience of novel cell observation, it delivers 3D data sets for every single image at every single moment.

96 well plate



Multiple organelle detection at each acquisition

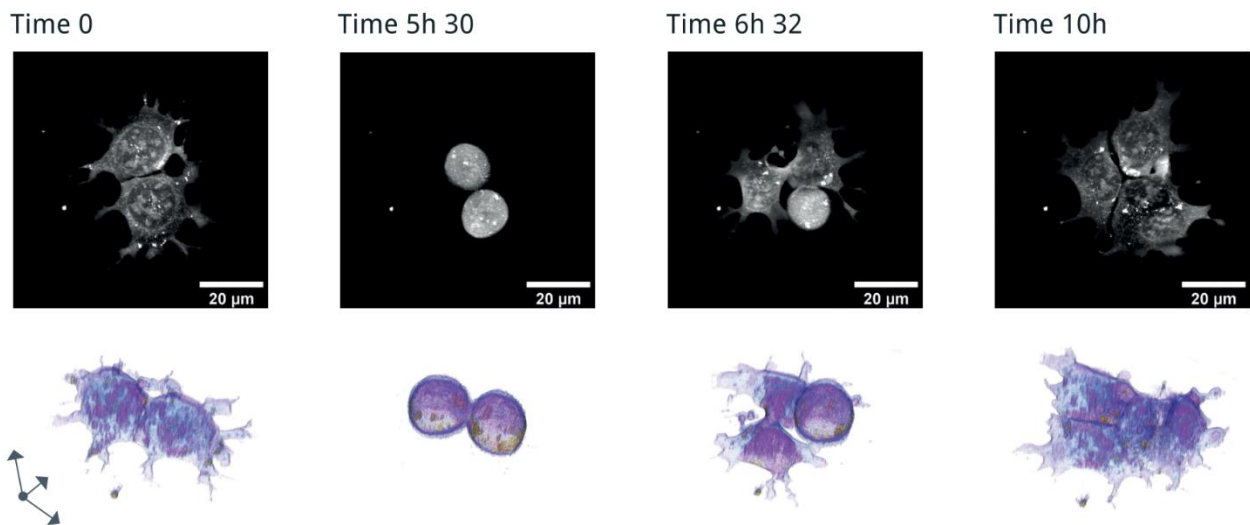


LONG-TERM LIVE CELL INCUBATION WALK-AWAY WITH AUTOMATION

Nanolive's CX-A automates data acquisition, thus delivering new insights and understanding into biological processes. Nanolive's completely redesigned intuitive user-interface enables first-time users to set-up experiments in just a few minutes and walk away, while the CX-A automatically collects the images. In addition to improving data significance, multiple imaging regimens can be programmed within the same plate allowing users to run different applications in parallel. A real-time preview allows the user to navigate through the data at any time while offering an overview of the experimental protocol. The 3D dataset output can then be exported with just a few clicks to multiple data formats for analysis.

UNIQUE IMAGING TECHNIQUE IMAGE CELLS FROM SECONDS TO WEEKS

Nanolive's CX-A can image living cells for a virtually limitless amount of time. Thanks to its unique harmless way of cell preparation and observation, hundreds of images can be collected each hour, transforming endpoint assays to continuous analysis, for days or weeks, while cells remain unperturbed in a physiologically controlled environment. Users can freely define the perfect imaging regimen for their cells without worrying about phototoxicity or photobleaching. These unique properties of Nanolive's CX-A system enable users to continuously monitor their precious, most-sensitive cells and to study their finest behaviors without missing anything.



ABOUT NANOLIVE:

Nanolive SA, is a Swiss company pioneer in the development and commercialization of innovative live cell imaging microscopes. Nanolive developed a revolutionary imaging technique, which allows, for the very first time, the exploration of a living cell in 3D without damaging it.

Nanolive technology offers unperturbed and earlier unmet insights into the living cell: no need for any special procedures, which require intensive and long preparation. As no chemistry or marker is used at all, the observation is completely non-invasive to the cell, and allows resolving the cell's parts down to below 200 nm. Nanolive's microscopes display the cell in a completely new way with a comprehensive representation of its morphology. Since the cell is the basis of all life on earth, this is a major milestone in the history of microscopy, which may change all the rules in the fields of Biology, Pharmaceuticals & Cosmetics in Labs and Industries.

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More information on the product page: www.nanolive.ch/cx-a

The company is holding a webinar on 23 July 2019. Registration here: <https://events.genndi.com/channel/cx-a-webinar>

Additional Images and videos can be found here: https://nanolive-my.sharepoint.com/:f:/g/personal/sabine_nanolive_onmicrosoft_com/EiA8mEQJ6lFlv6LtHWko1E8BY_XTtgNgHcf1sQpvl_JJAw?e=DbeeEM