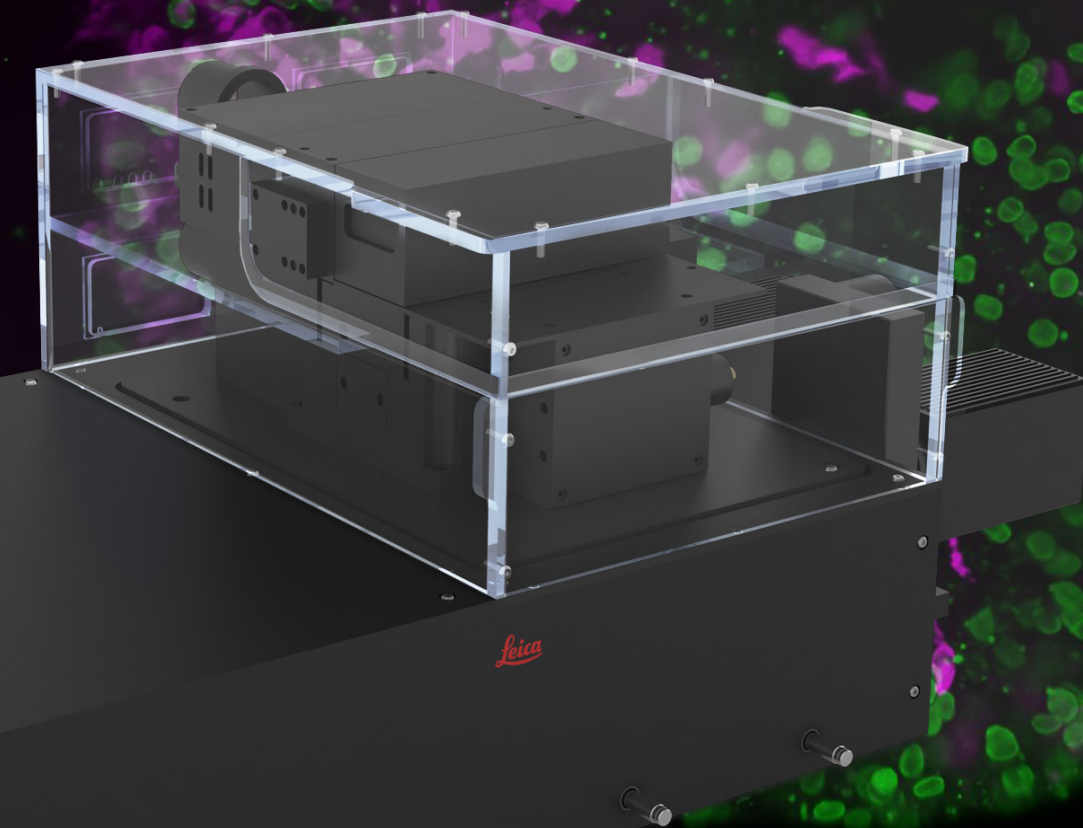


From Eye to Insight

Leica
MICROSYSTEMS

REVEALING LIFE IN ITS FULL CONTEXT

Dual View Light Sheet Fluorescence Microscope
Viventis Deep



100 μ m

VIVENTIS | DEEP

Brain organoids labeled with lamin (green) and tubulin (magenta).
Courtesy of Akanksha Jain, Treutlein Lab ETH-DBSSE Basel (Switzerland).

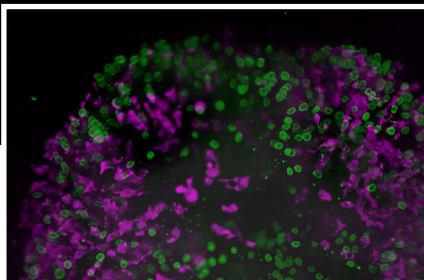
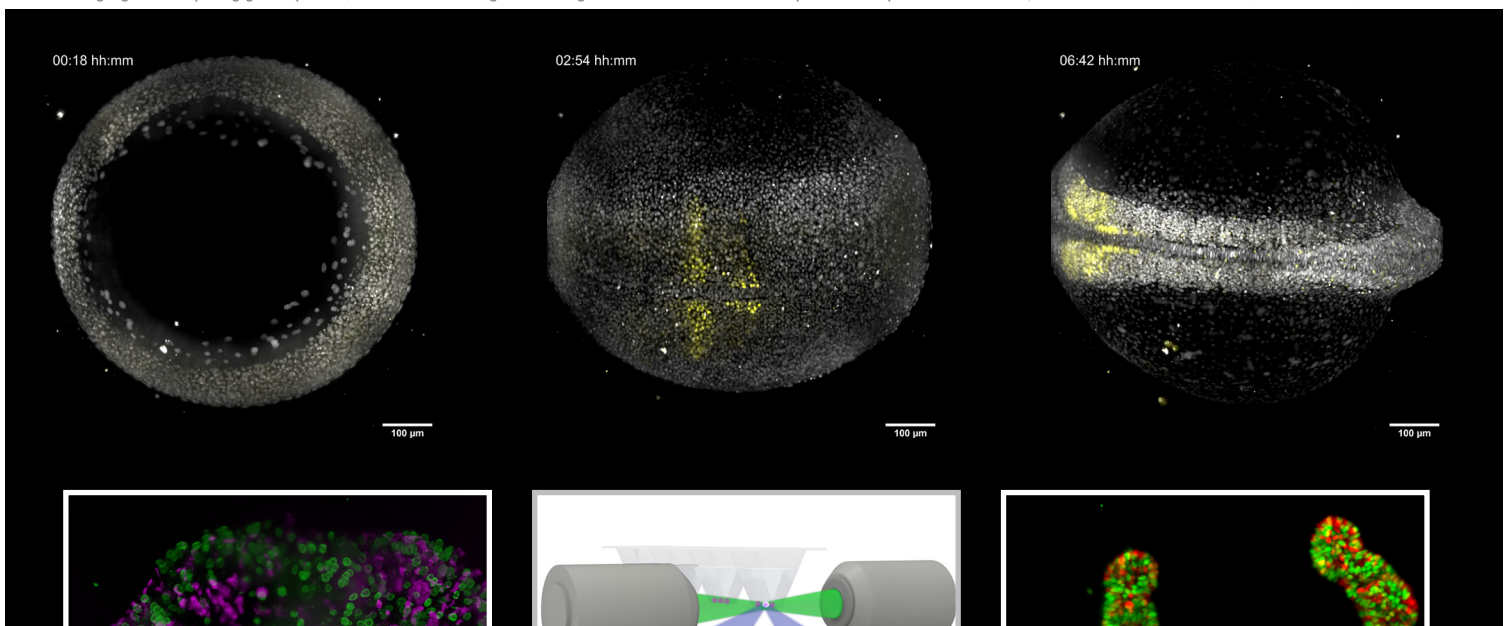
Viventis Deep

MULTI-VIEW AND MULTI-POSITION LIGHT-SHEET IMAGING TO ILLUMINATE LIFE IN ITS ENTIRETY.

Begin your journey to discover deep, long-term imaging that reveals the intricate details and dynamics of biological systems.

The Viventis Deep light sheet fluorescence microscope provides in a unique way multi-view and multi-position light sheet imaging to illuminate life in its entirety. Its spatio-temporal resolution and image quality, even for large light-scattering samples, enables you to expand your scientific understanding and analysis.

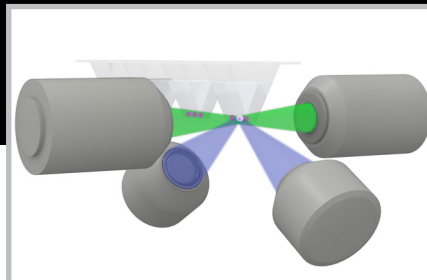
Imaging of the cycling gene (yellow) reveals the timing of somitogenesis in a zebrafish embryo. Courtesy of Olivier Venzin, Oates Lab. EPFL Lausanne (Switzerland).



EXPLORE LIFE IN DEPTH

Follow the spatio-temporal scale of your systems as they grow from single cells to tissues or organisms, with deep volumetric imaging.

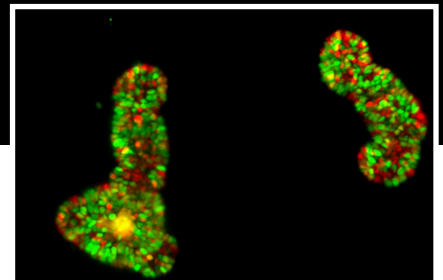
> [page 3](#)



EXPLORE MULTIPLE LIVING SAMPLES IN PARALLEL

Transform your light sheet imaging with higher throughput and multi-position capabilities.

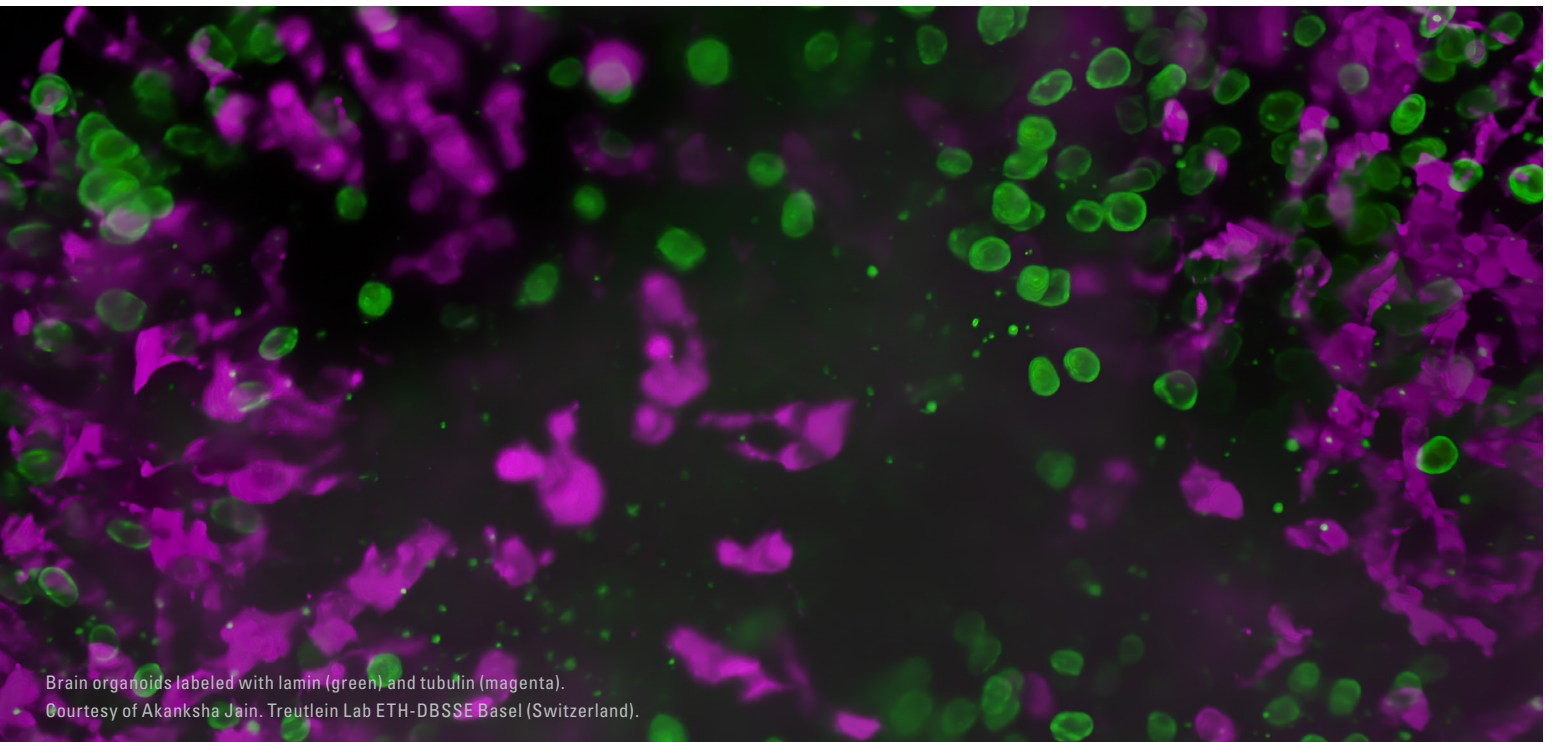
> [page 3](#)



EXPLORE LIFE EVENTS WITH LONG-TERM IMAGING

Gentle light sheet technology allows for rapid volumetric imaging while preserving sample viability.

> [page 4](#)



Brain organoids labeled with lamin (green) and tubulin (magenta).
©courtesy of Akanksha Jain, Treutlein Lab ETH-DBSE Basel (Switzerland).

EXPLORE LIFE IN DEPTH

The Viventis Deep microscope helps you to expand the spatio-temporal understanding of your sample to its full depth, thanks to increased spatio-temporal resolution.

Achieve detailed volumetric imaging for a complete view of the sample with a patented combination of

- > Dual illumination
- > Dual view detection
- > Multi-Position
- > Open top sample holder.

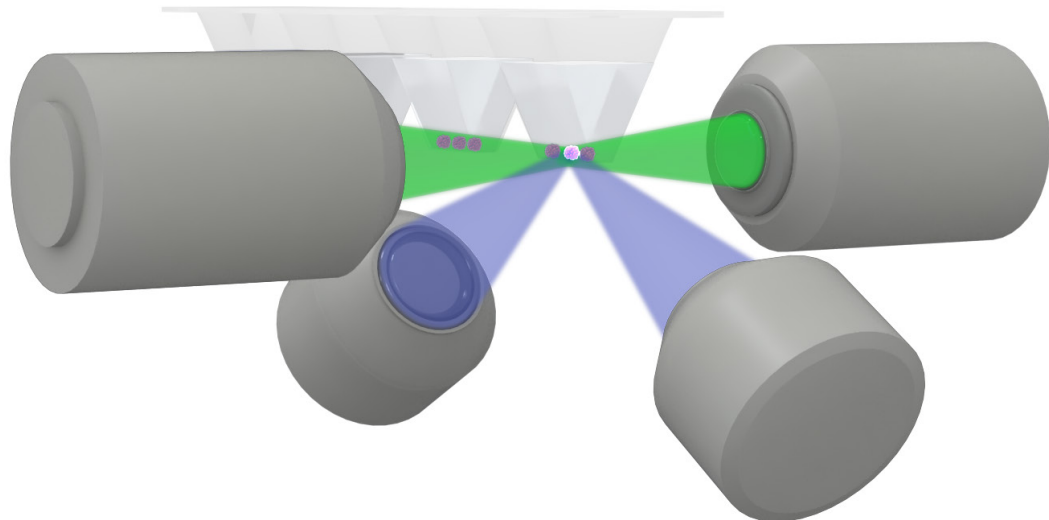
You can even image large light scattering samples over time with outstanding quality for meaningful downstream analysis, while minimizing light dose and maintaining sample accessibility.

EXPLORE MULTIPLE LIVING SAMPLES IN PARALLEL

Get more data from a single experiment. Collect data from multiple samples in parallel under different conditions in a single timelapse. The open-top configuration of the Viventis Deep microscope transforms your light sheet imaging with higher throughput and multi-position capabilities.

It enables:

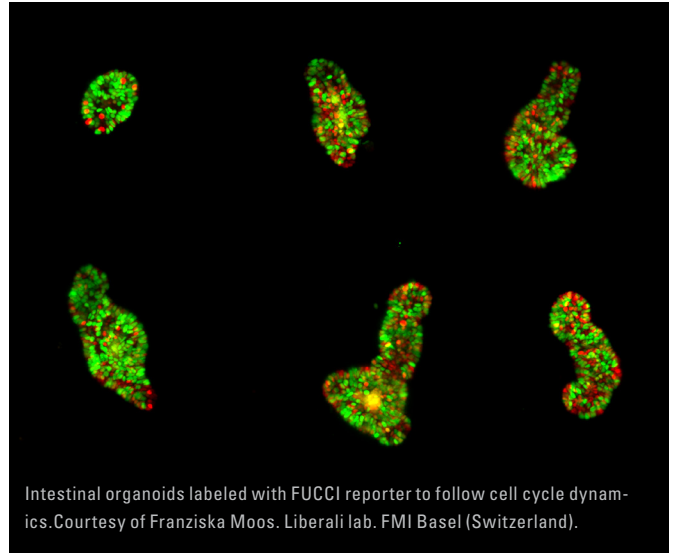
- > Easy sample mounting
- > Imaging under physiological conditions with only minor protocol changes
- > Media exchange, even during a running time-lapse



EXPLORE LIFE EVENTS WITH LONG-TERM IMAGING

In a variety of model systems, including intestine, liver and human colon cancer organoids and zebrafish embryos, the gentle light sheet technology of the Viventis Deep microscope provides high image quality while preserving sample viability.

In addition, the advanced incubation solution and easy media exchange even during a running experiment preserves physiological conditions. Easily handle even more complex experimental conditions. To study responses and to ensure specific results, you can add drugs and use an optional photomanipulation arm during a running time-lapse.



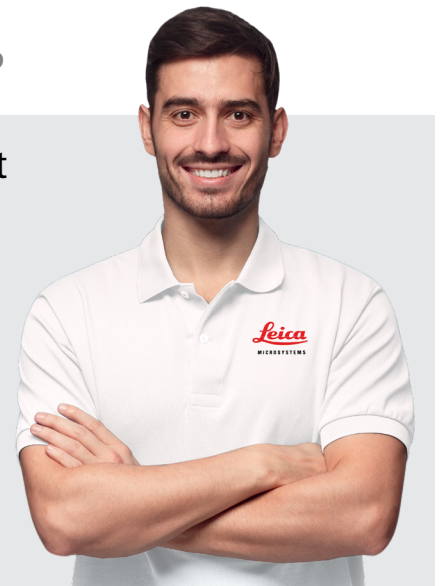
LEICA SERVICE FOR VIVENTIS DEEP

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- > Leica Team: 500+ Service & Application experts
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