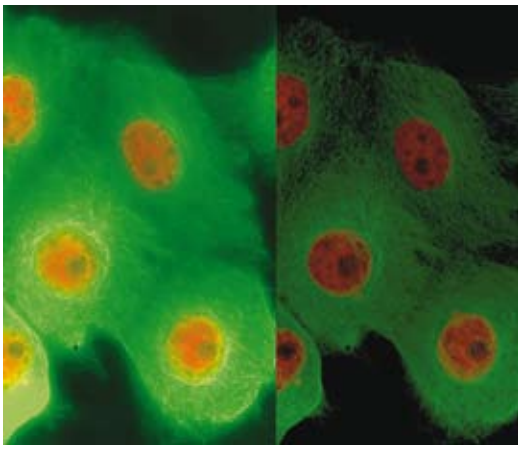
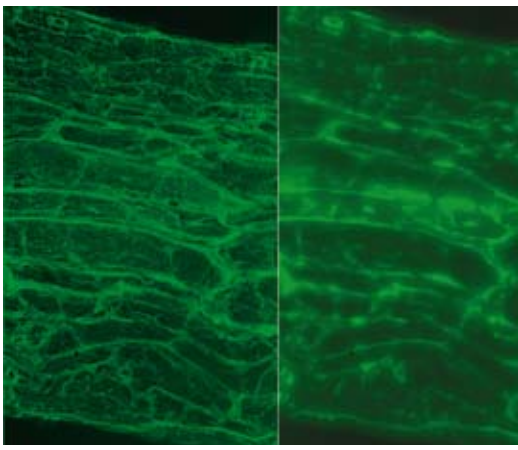
Discover the Dynamics of Life

New technology for fast optical sectioning - VivaTome

VivaTome - is the solution of choice when expanding your microscope system to observe dynamic processes in living samples. The technology behind VivaTome is as innovative as it is efficient, now combining the speed of a spinning disk confocal with the light efficiency of structured illumination. High frame rate acquisition with non-complex instrumentation of blur free dynamic processes is now achievable.





Applications/Technology

Capturing dynamic processes in living samples requires an imaging system that is both precise and fast. VivaTome can achieve frame rates of up to 30 images per second, depending on exposure time and camera. With the right settings even the fastest processes can be captured at full temporal resolution. Whether used for examining tissue growth, cellular transport, or signal transduction – VivaTome delivers high-resolution optical sections free of background fluorescence

- **Developmental biology**
- **Cell biology**
- **Physiology**

The System

VivaTome is quickly mounted onto the camera interface of many Carl Zeiss microscopes, including upright and inverted models, making it an extremely versatile fast imaging system. It is integrated within Carl Zeiss software ensuring precise control of over the entire experiment including control of the microscope system.

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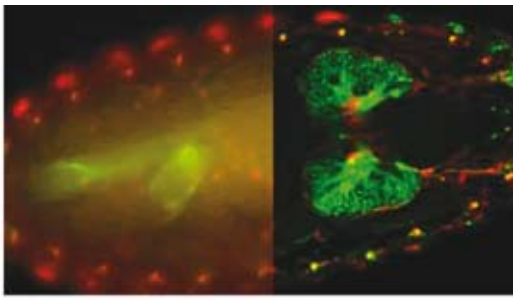
ZEISS

We make it visible.

The Visible Difference

The NEW standard for 3-D fluorescence imaging

ApoTome.2 - brings fluorescence imaging to a new level of performance with excellent image quality and new perspectives for scientific research. ApoTome.2 generates blur free optical sections of fluorescence samples with exceptional contrast, image quality and resolution– with an optical section thickness of one Rayleigh unit

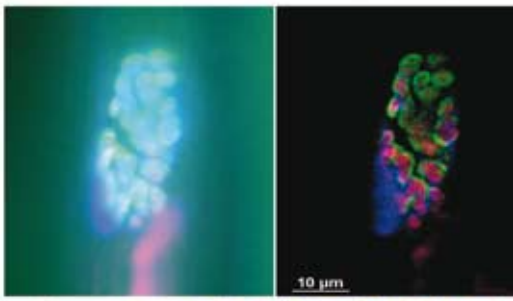


Applications/Technology

In conventional wide field fluorescence microscopy the image is generated by the light coming from the focused object plane combined with unwanted light from structures above and below it. The unwanted light hides structures of interest and reduces contrast.

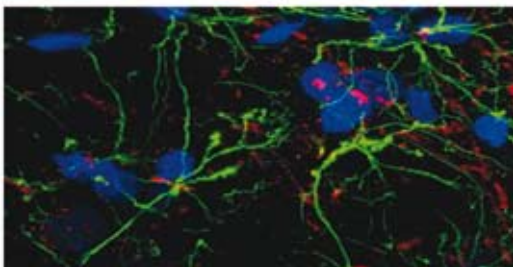
ApoTome.2 is a module with integrated motorised grid structures for structured illumination and is designed to fit the field diaphragm position of the microscopes reflected light path. Insert the module into your microscope and the Carl Zeiss software will automatically adjust the optimal grid setting for the objective resolution in use – no manual change is required.

- **Developmental Biology**
- **Neurobiology**
- **Cell Biology**
- **Botany**
- **Pathology**



The System

ApoTome.2 operates with upright and inverted motorised microscopes from Carl Zeiss and is used in conjunction with a range of digital CCD cameras including the Carl Zeiss AxioCam range. It is integrated within Carl Zeiss software ensuring precise control of over the entire experiment including control of the microscope system.



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