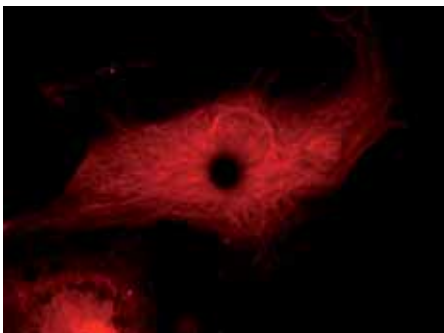
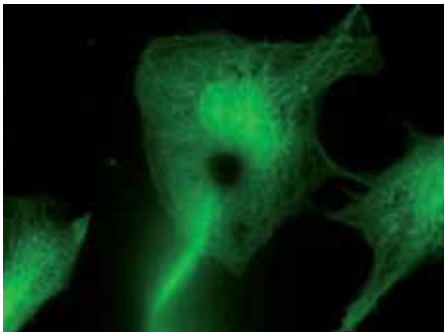


1D-VisiFRAP Point Illumination

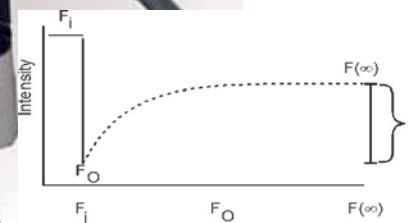
Fluorescence
Recovery After
Photobleaching

1D VisiFRAP Point Illumination

The 1D-VisiFRAP optics from Visitron Systems GmbH are specially designed for fluorescence recovery or photoactivation at a single point. The system is based on a high sensitive CCD camera system, typically a scientific microscope, motorized microscope xy stage and special designed 1D point laser condenser. All components are automatically controlled by the VisiView® imaging software.



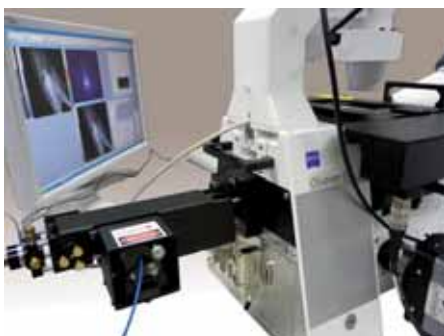
Endothelial cells used with VS-1D single point FRAP.



Zeiss Axio-Imager with 1D FRAP optics and motorized emission filter wheel.

Smooth Illumination

The positioning of the selected point or area for bleaching or photoactivation is either done manually or by the motorized xy stage. Single points as well as ROI's can be scanned by moving the XY-stage. An area of interest can be simply selected with single mouse click. The area moves automatically to the middle of the image field. With „FRAP on the fly“ every mouse click activates the laser for bleaching. Several laser combinations from 405 nm up to 640 nm allow flexible photomanipulation of different fluorochromes or switchable proteins.



Combination of VisiTIRF condenser with 1D FRAP optics.