

MACRO TO MICRO CONFOCAL IMAGING WORKFLOW WITH FLUOVIEW FV3000

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Built for fast, stable and accurate measurements of biological reactions within living cells and tissues, Olympus' FluoView FV3000 offers flexibility for all live-cell imaging applications, providing high-resolution images of structures and dynamic intracellular processes.

Confocal macro imaging

Usually objectives below 10x magnification live in the shadows of the ample application fields of confocal imaging. The reengineered unique scanning optics design of the FV3000 changes dramatically this situation with its macro to micro imaging capabilities for confocal acquisition with 1.25X to 150X objective lenses. Just imagine a single shot scan of an individual well of a 96 microwell plate at cellular resolution!

Workflow

Implementing robust, intuitive automation to simplify complex experiments is key for an easy workflow in everyday use with a confocal LSM. Start with the excellent autofocus to find your sample. Create a low magnification confocal map image which will make the eyepieces obsolete. Use the map image to select target areas for detailed high resolution imaging by changing to higher magnification objectives. Sample navigation is done by a double click on the desired map image area which will be translated into a smooth stage movement to center that area for any further desired analysis. The original low magnification map image is displayed side by side with the high resolution confocal time lapse, 3D, 4D and stitched images.



Widen up possibilities

The FLUOVIEW FV3000 even offers more modern comforts to discover:

- Extend possibilities with TruSpectral technology – filterless adaption to any dye
- Save imaging time with a high-speed resonant scanner
- Discover detailed analyses down to 120 nm with Olympus Super Resolution
- Experience low running costs with solid state lasers