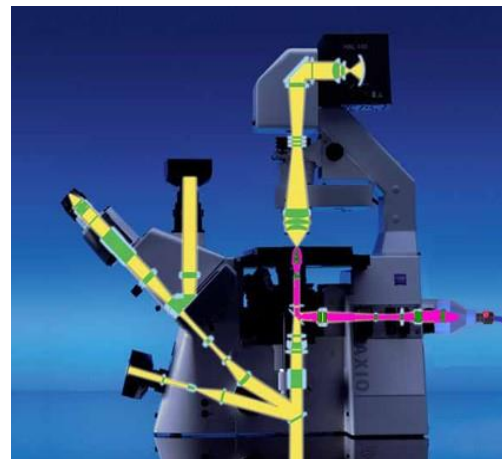
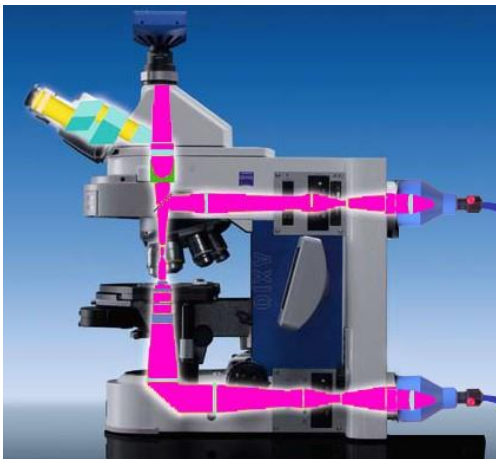


Deep-UV Microscopy

Custom Solutions for Deep-UV Microscopy

Standard microscope optics typically transmit wavelengths down to approximately 330 nm and for applications which require deep-UV light, the options on the market are limited. For such occasions, Rapp OptoElectronic offers:

- New microscopes modified with **quartz optics** (transmission and/or fluorescence path)
- Retrofitting of existing microscopes with quartz optics (transmission and/or fluorescence path)
- Transmission **down to 220 nm**
- Objectives with transmission down to 220 nm

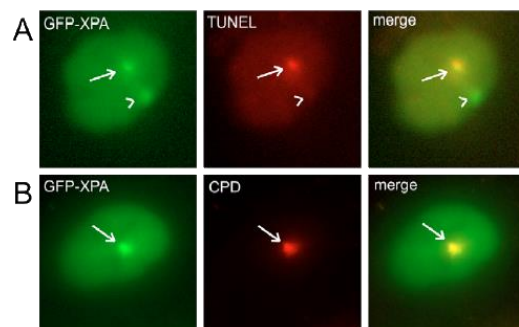


Zeiss AxioExaminer and AxioObserver modified for deep-UV. Modified paths shown in magenta.

Application Example:

DNA damage at sub-nuclear level using Rapp OptoElectronic

- **AiWon** spot illumination
- **DPSL-266** pulsed laser (266 nm, 2mW, 7.8 kHz)



Dinant et al. (2007) *Activation of multiple DNA Repair Pathways by Sub-nuclear Damage Induction Methods*, **J. Cel. Sci.** 120, 2731-40