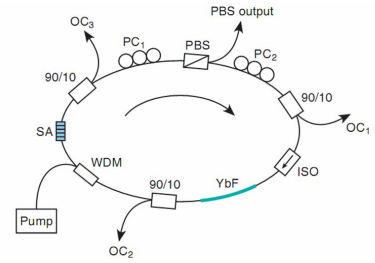
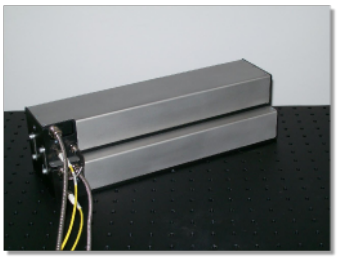
NEW

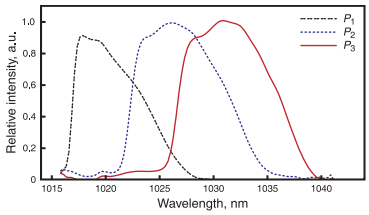
FemtoFiber™
All-fiber, femtosecond pulse ytterbium oscillator/amplifier system

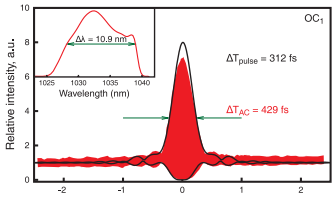
Ytterbium oscillator/preamplifier system



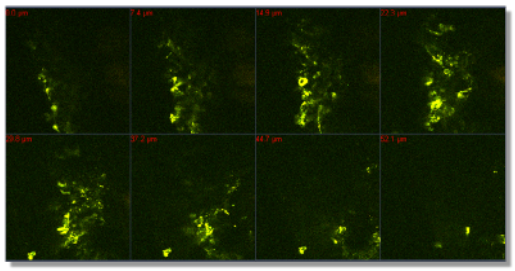


Typical output spectra and SHG autocorrelation trace





Examination of Alexa-514 labelled nanoparticle penetration into unhaired mouse dorsal skin by ytterbium oscillator/amplifier system



Reference

Fekete J, Cserteg A, Szipőcs R; All-fiber, all-normal dispersion ytterbium ring oscillator. Laser Phys. Lett. **6** (1) 49-53 (2009)

System specifications (preliminary):

Average output power: > 900 mW
Operation wavelenght: ~ 1030 nm
Bandwidth: > 6 nm
Pulse duration at the laser output: ~ 20 ps
Repetition rate: 20-80 MHz
Spatial mode: TEM00
Polarization adjustable by QWP and HWP
Optional compressors:
Transmission grating or hollow fiber compressor
Compressed pulse duration: < 300 fs or < 600 fs

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