





Faculty of Electrical and Computer Engineering, Laboratory for Measurement and Sensor System Technique

Competence Center BioLas

Holographic Stimulation Platform for Optogenetics

- Two-Wavelength Operation for Concurrent Activation and Inhibition
- Variable Wavelengths to Match Various Optogenes
- Arbitrary 3D Patterns based on Computer Generated Holograms (CGH)
- Subcellular Spatial Resolution
- Ferroelectric Spatial Light Modulators for Fast Pattern Generation (1 kHz)
- Real-Time Closed-Loop Control possible
- Suitable for In Vitro and In Vivo Experiments
- Experiments performed at human induced stemcell derived neurons and cardiomyocytes

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