

PRESS RELEASE

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FemtoOgene[®]

Most precise optical cell manipulation

FEMTOLASERS Produktions GmbH

is the premiere manufacturer of ultrafast, compact and reliable laser oscillator and amplifier solutions. Founded in 1994 in Vienna, Austria, the company's products and excellent services have evolved to be the first choice among OEMs and scientists worldwide for demanding applications and solutions. FEMTOLASERS state-of-the-art products offer technology of highest quality.

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FEMTOLASERS Produktions GmbH and

JENLAB have joined forces in a collaboration presenting the new FemtoOgene[®] - targeted transfection by sub-20 femtosecond laser pulses.

The FemtoOgene[®] combines a scanning microscope with high order dispersion compensation to deliver sub-20 femtosecond pulses from the INTEGRAL™ – a dispersive mirror based hands-off femtosecond oscillator. The use of these extremely short pulses allows to precisely produce transient openings in cells for injection of other macromolecules into the cell (transfection) as well as optical knock out. These operations can be performed at very low average powers, avoiding collateral damage.

Applications of this new exciting device include gene transfection, femtosecond based photoporation, photo disruption and other studies based on interaction of biological material with femtosecond pulses.

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