

For more control during
oocyte penetrations in ICSI



Piezo-ICSI

Still struggling with low oocyte survival rates after conventional ICSI?

ICSI in mammals is challenging and that is largely due to two reasons: An opaque oolemma makes it difficult to recognize the moment of penetration (e.g. in equine, porcine, bovine, or ovine ICSI) or a low cytoplasm viscosity combined with an elastic oolemma results in low oocyte survival rate after microinjection (e.g. in murine ICSI). The Piezo-ICSI system from Eppendorf ensures more control over penetration of a challenging oolemma - without cytoplasm aspiration and associated stress for the cytoskeleton. This supports higher oocyte survival rates in mammalian ICSI.

PiezoXpert® and microcapillaries for Piezo-ICSI

- > Compatible with micromanipulators of major manufacturers
- > Compact design of the control unit and the Piezo actuator saves precious workstation space
- > PiezoXpert is also usable for embryo biopsies, enucleation and nuclear transfer, ES/iPSC-transfer, and more



Your Complete Piezo-ICSI Solution

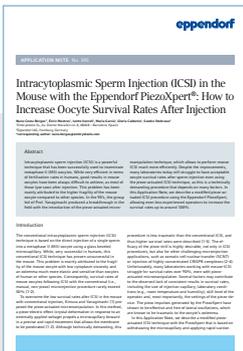
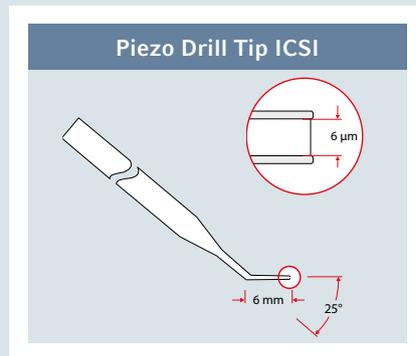
PiezoXpert®

- > Optimized force transmission: Piezo element is located and fixed close to the capillary holder and capillary
- > Reproducible capillary positioning, optimized axial force transfer, and leak tightness: Capillary holder with two O-rings and capillary insertion stop position
- > Easy to fix capillary without the need of a silicon ring
- > ICSI dual pulse function: Fast and direct retrieval of Zona pellucida and oolemma-specific pulse parameters, e.g. with foot switch A and B
- > Two years warranty



Microcapillaries for Piezo-ICSI

- > Ready-to-use, individually packaged holding capillaries (VacuTip I and II) and Piezo Drill Tip ICSI
- > High batch-to-batch production consistency with 100% visual inspection
- > Sterilized via validated gamma irradiation to SAL 10⁻⁶
- > Tested for endotoxins/pyrogens (LAL)



Application Note: Piezo-ICSI in mouse
 Click or scan to learn more:
www.eppendorf.com/appnote395



Discover more helpful products, request a demo, or an individual quote:
www.eppendorf.com/cellmanipulation



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