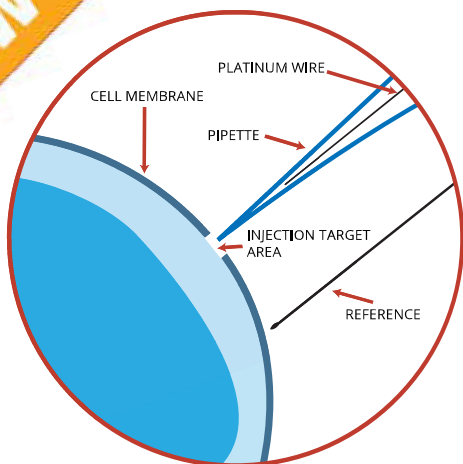


# Pinpoint Injector

The next generation injection method for increased knock-in efficiency



## Features

- Touch-screen display—resistive touch panel for use with gloves
- Injection control with foot switch or manually with touch screen
- Intuitive user interface
- User adjustable frequency and voltage with touch screen or knobs
- Small footprint
- Four user-programmable protocols
- Adjustable audio continuity tone indicates active probe
- Injection counter indicates total number of injections
- Electrodes include reference electrode option
- Electrode holder compatible with most common manipulators

## Benefits

- High yield (80-85%) of viable, 2-cell stage mouse embryos after injection
- Integrates with WPI's PV820/PV830 or the Eppendorf Femtojet® (Femtojet® 4i is a registered trademark of Eppendorf AG)
- Hands-free operation with foot switch control
- Works with most inverted microscopes

## MICRO-ePore successes in university labs



Photo courtesy of Dr Janet Rossant, The Hospital for Sick Children in Toronto, Canada. An example of the MICRO-ePORE™ electrode setup on an inverted microscope. MICRO-ePORE™ electrode design ensures compatibility with the leading microscope manufacturers.

## Applications

- Microinjection into oocytes and pre-implantation stage mammalian embryos, including microinjection of CRISPR-Cas9 reagents into the cytoplasm of two-cell stage embryos
- Pronuclear rodent zygote microinjection
- Gene silencing in zebrafish



Preliminary Design

98991 - Auxiliary Knob Controller sold separately

## References

Gu, B., Posfai, E., & Rossant, J. (2018). Efficient generation of targeted large insertions by microinjection into two-cell stage mouse embryos. *Nature Biotechnology*, 36(7), 632-637. <http://doi.org/10.1038/nbt.4166>

## MICRO-ePORE SPECIFICATIONS

VOLTAGE PARAMETERS	0-3.0 V, at 1 mV increments
FREQUENCY PARAMETERS	50-3000 Hz, at 1 Hz increments
PIPETTE RESISTANCE MAXIMUM	40 MΩ
DIMENSIONS	19.7 × 12.7 × 7.6 cm (7.75 × 5 × 3 in.)
WEIGHT	0.9 kg (2 lb)
CERTIFICATIONS	CE, RoHS

## ORDERING INFORMATION

MICRO-ePORE MICRO-ePore System™

Includes Electrode Holder • Microinjection Headstage, including adapter for Femtojet™ • Holding Pipette • Platinum Reference Electrode • Vacuum Tubing Set • Foot Switch (Auxiliary Knob Controller sold separately)

98991	Auxiliary Knob Controller
SYS-PV820	Pneumatic PicoPump Microinjector
SYS-PV830	Pneumatic PicoPump Microinjector with Vacuum Pressure
1B100-3*	Single-Barrel Standard Borosilicate Glass Tubing, 3 in. (76mm) long, 1.0 mm OD, 0.58 mm ID, package of 500
TIP1TW1*	Pre-Pulled Glass Pipettes, 1 μm tip ID, 1.0 mm glass OD, Thin wall, fire polished

\*Many varieties and choices are available for glass capillaries and pre-pulled μTip micropipettes.

## WORLD PRECISION INSTRUMENTS

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