



WORLD
PRECISION
INSTRUMENTS

*Research products for
wherever science takes you*

WHAT'S NEW AT WPI

TRANSFECTION & MICROINJECTION

FOR A LIMITED TIME **SAVE 25%** ON THE NANOLITER INJECTOR

*No discount code is required. The discount is automatically applied at the checkout. Offer expires 12/23/2019. Offer includes the NL2010MC2T Nanoliter Injector with SMARTouch Controller or the 504127 Nanoliter 2010 Injector Head. Offer does NOT include the NANOLITER2010 Nanoliter Injector with the Standard Controller. Offer may not be combined with other offers. Offer valid in the USA only. For Nanoliter 2010 specials internationally, please contact your distributor.

Product details on **PAGE 59.**



new

Mammalian Cell Injector Innovation – The new **MICRO-ePORE™** pinpoint cell penetrator integrates with existing pneumatic pressure injectors (like the WPI **PV830** or the Eppendorf FemtoJet®) to combine focal point electroporation with pressure injection. This patent pending Flutter Electrode Technology enables precise penetration, reducing membrane trauma, improving efficiency and cell viability outcomes with injection of reagents into oocytes and pre-implantation mammalian embryos.

Product details on **PAGE 42.**



The **UMP3** with **SMARTouch** controller uses microsyringes to dispense nanoliter to microliter sample volumes. A longer **UMP3** mounting bar now accommodates Hamilton Neuros syringes. The new **SMARTouch** controller (**MICRO2T**) can control 2-channels simultaneously and independently. It offers intuitive, touch screen control for any combination of **UMP3** and/or **Nanoliter 2010** pumps.

Product details on **PAGE 55.**

Now you can use a syringe with a glass micropipette. Our new **NFINHLD-G10** needle holder uses glass needles. Its cousins, the **RPE-KIT** and **IO-KIT** were designed for eye research and use metal needles. They are also used for brain injection in mice. All three need to be used with a NanoFil syringe and an **UMP3** to achieve accurate, repetitive and oil-free injection in the submicroliter range.

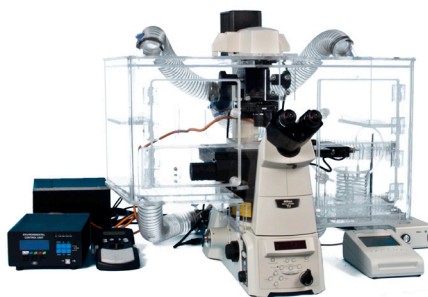
Product details on **PAGE 41.**

LIVE CELL IMAGING



Product details on **PAGE 37.**

A microscope stagetop incubator is perfect for adding Live Cell Imaging to an existing microscope. The **STEVE2** incubator with the stagetop environmental control system is a compact environmental case to house your culture wells and control for heat, humidity, CO₂ and O₂.



The Live Cell Microscope Incubator has a unique, diffusion grid, combined with air input and return vents to provide a laminar air flow pattern for consistent, even heating. The **ECU** offers environmental control for heat, humidity, CO₂ and O₂.

Product details on **PAGE 34.**

LABORATORY EQUIPMENT



new

As an authorized distributor of Sutter Instruments products, WPI may now offer Sutter's full range of pullers, micromanipulators, patch clamp amplifiers, software, microscopes and accessories.

Product details on **PAGE 109-111.**

WPI has a premium line of stereotaxic instruments designed for research. These frames and accessories stand up to daily laboratory use and offer the precision you demand. We are committed to bringing you the quality products you need, and the affordable solutions you want.

WPI offers stereotaxic frames for animals of various sizes like mice, rats, cats, guinea pigs, hamster, monkeys, dogs, etc. and accessories like neonatal adapters, ear bars, probe holders and tooth bars. A broad variety of stereotaxic instruments are available for various applications.

- Basic frames with single or dual arms
- Motorized and digital frames
- Parallel rail frames

WPI Stereotaxic frames:

- Are convenient to use and highly accurate (to 100 μm)
- Offer smooth and versatile movement
- Provide stability and adaptability

Some of these frames have temperature control in the base to maintain body temperature of the animals during the surgery.



www.wpiinc.com/premium

ZEBRAFISH RESEARCH

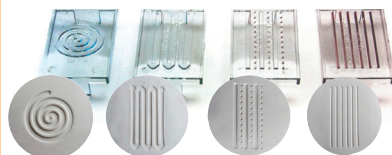


The **PZMIII-MI** Microscope with Illuminated Base and Articulating Mirror is a perfect choice for microinjection. It includes our standard stereo microscope head, or other brands may be substituted. The base illumination is LED. It features a gimbaled mirror and has a wide arm rest surface. The sliding mirror tilts, allowing front to back movement, as well as rotation. This lets you vary illumination from Brightfield LED to Darkfield LED at an appropriate angle. It is an effective tool for viewing live bacteria. At low magnifications, view tissues, cells or embryo transfer where oblique transmitted illumination is critical. This platform includes the **PZMIII** microscope, a focus mount, two stage clips, 94.5 mm glass stage plate, an automatic voltage sensing power supply and a 20 mm vertical post. The base may be fitted to other microscope heads. An optional camera and view screen are available (shown left).

Product details on **PAGE 184.**

The long taper micropipettes are crafted to the same high quality standard as all other **$\mu\text{Tip}^{\text{TM}}$** pre-pulled micropipettes. These are created for cell-injection users who prefer a long-tapered tip and break it to create the size needed for their particular use. Since the exacting tip calibration for standard **$\mu\text{Tips}^{\text{TM}}$** is not required, these are very economical. Pipettes are individually vacuum packed, 10 per package. Glass O.D. 1.5 mm, available with filament (**TIP15FLT**) or with no filament (**TIP15LT**).

Product details on **PAGE 41, 218.**



Z-MOLDS Microinjection and Transplantation Molds (4 per kit) offer a simpler method for handling zebrafish embryos. They speed up your process and accuracy. First, mold your agarose. Next, pipette in your embryos. Then, watch them align in the grooves. These are perfect for high throughput and microinjection research.

Product details on **PAGE 46.**

CARDIOVASCULAR PHYSIOLOGY



The **CardioPhysTM ECG** unit is a bioamplifier that is designed to amplify the sum of electrical potentials from cardiac muscle and other extracellular signals. The signal produced from cardiac recordings tracks the depolarization and repolarization of the cardiomyocytes as they contract in succession to pump blood through the heart. The **CardioPhysTM ECG** system is a highly versatile tool for measuring ECG of a wide spectra of animals, as small as a zebrafish embryo to animals as large as an alligator.



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