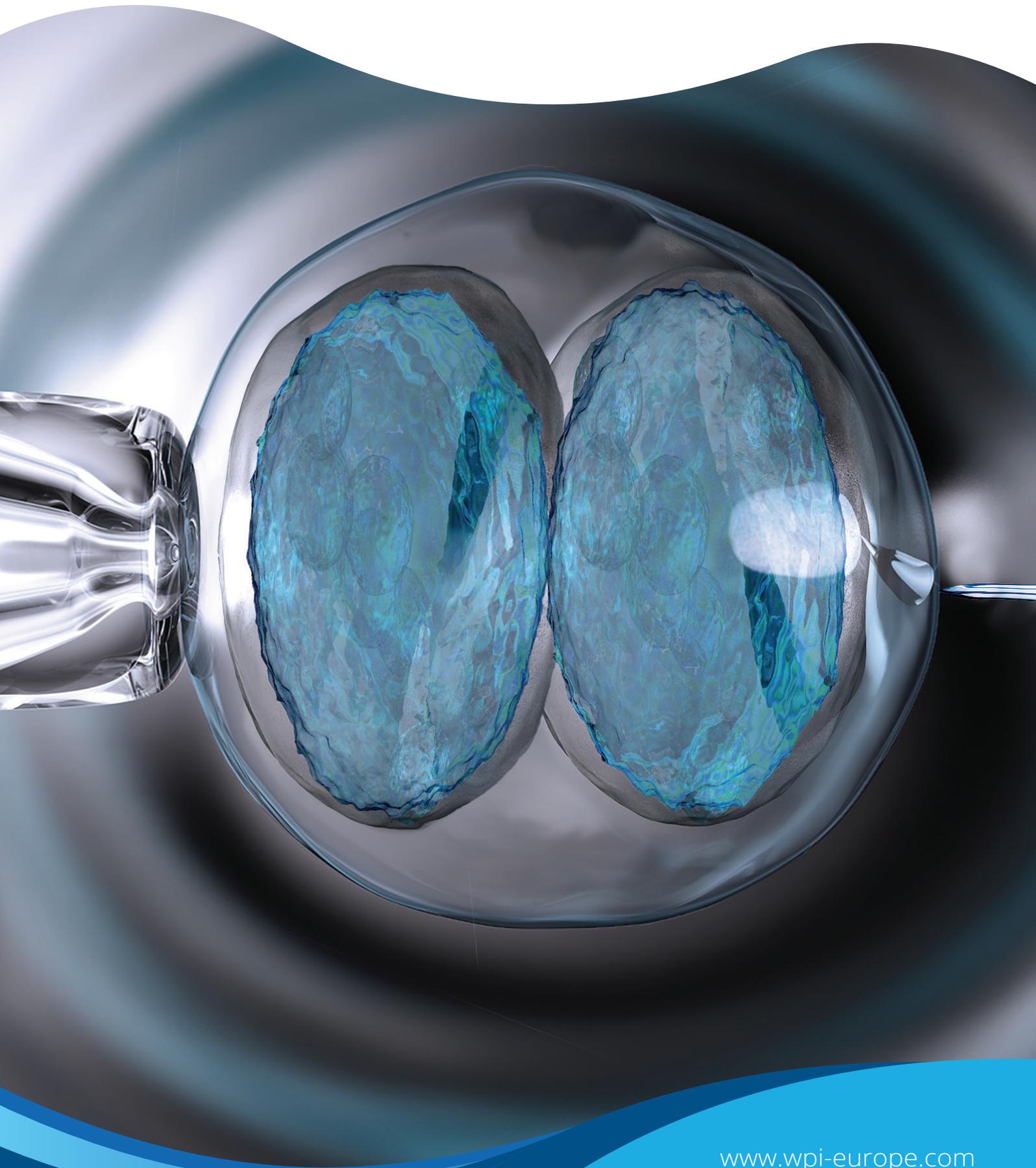


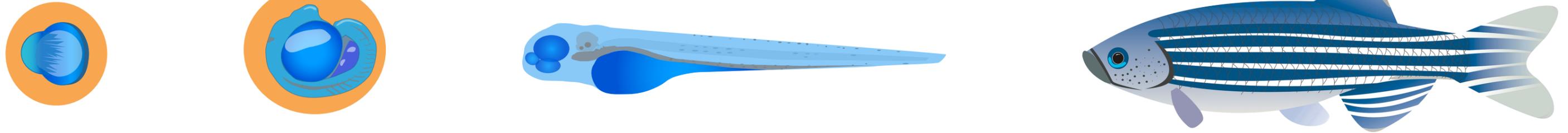


ZEBRAFISH RESEARCH

Make your Zebrafish Research
Easy & Cost-Effective



Pinpoint Cell Penetrator for Targeted Microinjection



RESEARCH AREAS

 Developmental Biology

 Genetics

 Oncology

 Toxicology

 Pharmacology

 Regenerative Medicine

ENHANCED MICROINJECTION EFFICIENCY FOR GENETIC MODIFICATION



The full microinjection system presents components which optimize both visibility and application experience. Our new generation pressure microinjectors (**PV850**, **µPUMP**, and **Micro-ePUMP**) offer a streamlined solution for ultra-low volume delivery for cell transfection.

The **Smart-PZM** Trinocular Microscope comes with a High Definition camera and Monitor for improved visibility of your sample, along with analysis software for target quantification.

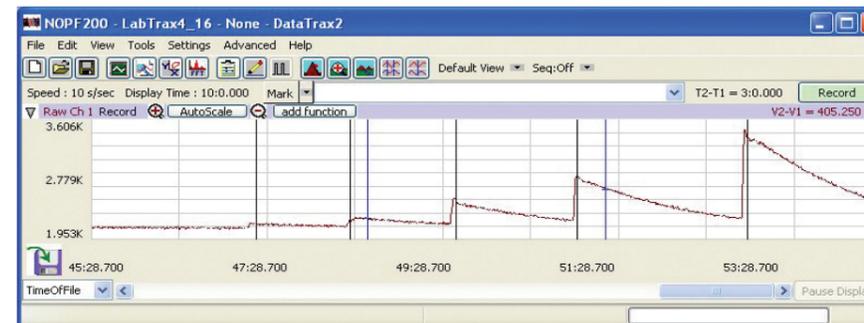
This bundle features a lighted base with an articulating mirror, ideal for manipulating contrast within your working field for crystal-clear live recording. Pair your injector with WPI's **Z-Molds** and pre-pulled tips, along with our micromanipulator (**M3301**) for the best experience.

DETECTION OF FREE RADICALS & OTHER MOLECULES FOR DISEASE MODELS



This is a typical laboratory setup of a WPI free radical analyzer with data acquisition system.

The WPI Free Radical Analyzer, **TBR4100**, enables real-time, highly sensitive detection of free radicals such as NO, H₂O₂, H₂S, CO, O₂—important physiological indicators in intracellular cell signaling and homeostasis. Free radicals beyond the level of normal detoxication can result in oxidative stress (OS). OS affects wound healing and aging, and it causes several diseases such as diabetes mellitus, neurodegenerative disorders (Parkinson's disease, Alzheimer's disease and Multiple sclerosis), cardiovascular diseases (atherosclerosis and hypertension), respiratory diseases (asthma), cataract development, rheumatoid arthritis and various cancers (colorectal, prostate, breast, lung, bladder cancers).



The output shows the raw data for an ISO-NOPF200 (NO sensor). Only one of the four channels is used in this application.

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ZEBRAFISH MICRODISSECTION INSTRUMENT KITS

KIT 1

WPZ00018 Kit Includes:

- Probe, 0.25 mm Tips, 45° angle, 15 cm
- Probe, 0.25 mm Tips, 15 cm
- Student Vannas Scissors, 9 cm, Straight, 500 µm Tip
- Microdissecting Forceps, 10.2 cm, Angled, Serrated



KIT 2

WPZ00218 Kit Includes:

- Probe, 0.25 mm Tips, 45° angle, 15 cm
- Probe, 0.25 mm tips, 15 cm
- Noyes Scissors, 12 cm, Straight, Sharp/Sharp, 15 mm Blades
- Tissue Forceps, 1x2 Teeth
- Iris Forceps, 10 cm, Curved, Serrated



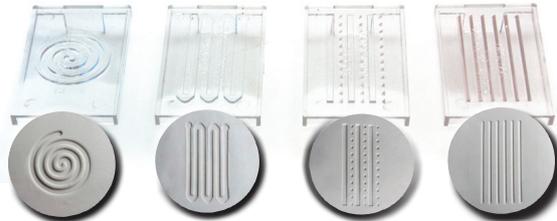
* Item also sold individually: WPI0218, WPI0118, 501777, 504479

* Item also sold individually: WPI0218, WPI0118, 500228, 15918, 15915

OTHER ACCESSORIES



The WPI **M3301** Micromanipulators, Electrode Holders, Pre-Pulled Glass Micropipettes and **Z-MOLDS** were used in this application.



Z-MOLDS Microinjection & Transplantation Molds (4 per kit, shown above) are used to imprint reservoirs into agarose gel. Easily pipette and isolate embryos into the grooves for simplified injection.



Glass-Slide Micrometers (504606) are placed below your petri dish for injection sample-to-target measurement.



WPI offers biosensing macrosensors (2 mm) like this one and a range of microsensors for NO, O₂, H₂O₂ and H₂S.



The pre-pulled glass pipettes (**UTips**) save the cost and time of making your own micropipettes.



NANOLITER2020 offers a simple alternative to embryonic transfection using positive displacement.



U.S. PATENT
5,294,325

WPI's **MicroFil™** fills micropipettes easily and reliably by starting close to the pipette tip, eliminating air bubble formation.