

XYClone

For Laser Assisted Hatching and IVF



In
Straw

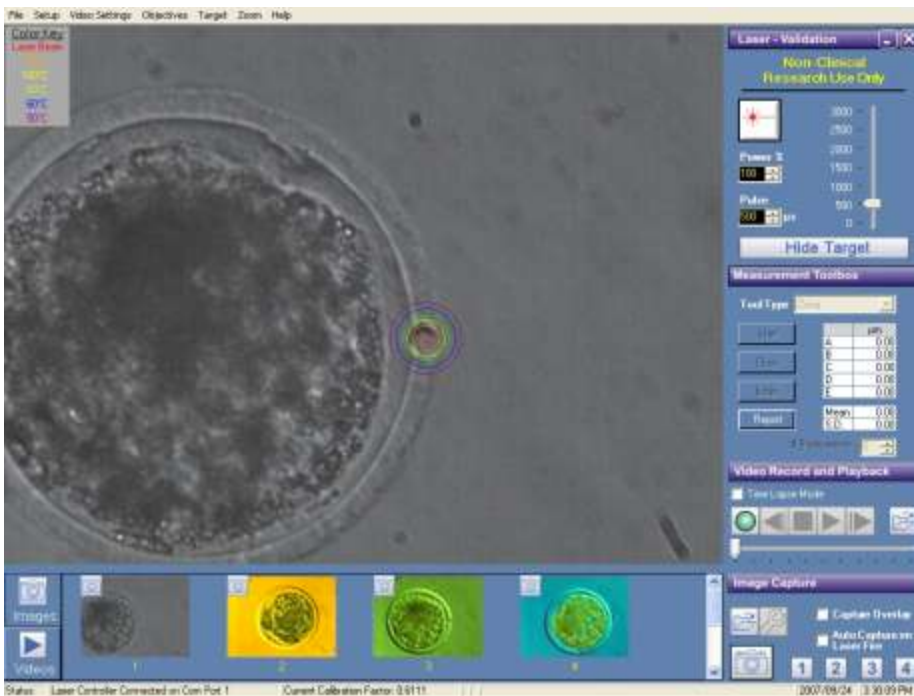
In
Dish

Increase Pregnancy Rates in Repeat Breeder Herds

The XYClone laser reliably, quickly, and cleanly opens the zona to assist with embryo hatching and promote implantation.

In a recent study*, a 12% increase in pregnancy rate occurred when the XYClone was used for laser assisted hatching of bovine embryos prior to transfer.

*Menges S, Wei H, Faber D, Kraemer D, Long C. **Utilization of Laser Assisted Hatching to Improve the Pregnancy Rate of In Vitro Fertilized Bovine Embryos.** *Proceedings of IETS 2008, January 6-8, Denver CO.*



XYClone Benefits

- Laser integrated into objective means no alignment hassles
- Fits on any inverted microscope
- Precise, fast, and easy to use
- Eliminates learning curve of complex procedures
- Allows use of fluorescence
- Highly portable for field work

"We perform on farm embryo collection and transfer. We travel almost 75K miles a year and setup in the clients' barn or house. The microscope and laser system is packed in a travel case and setup every day. Once the system is setup, calibrated, and targeted, I have not had to adjust it again. We work in some very dusty and dirty places and I have not had one problem with the system. In addition, the clients greatly enjoy being able to see their embryos before transfer and they can watch the computer screen without disrupting the embryologist."

Michael Werhman, Ph.D., Rocky Mountain Reproductive Services

Superior for Field Work

When used together with the optional laptop computer, the XYClone is easily transported cross-campus, cross-town, or cross-country. Since the XYClone works on all inverted microscopes, you don't have to worry about compatibility issues on the remote microscope.

Breach Embryo Zona through Straw

The ability to ablate membranes through the cryopreservation straw maximizes work flow. Simply thaw the embryo in the straw, place straw on microscope stage, ablate zona with laser, and transfer as usual.

Installs on Any Inverted Microscope

Since the XYClone laser is based on the standard objective height, it easily installs on turrets of all models of inverted microscopes, even older models. Also, the unique design of the laser allows you to switch the XYClone laser from one microscope to another - without need of laser realignment!



For more information, please visit our web site at:
www.hamiltonthorne.com/research/xyclone



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