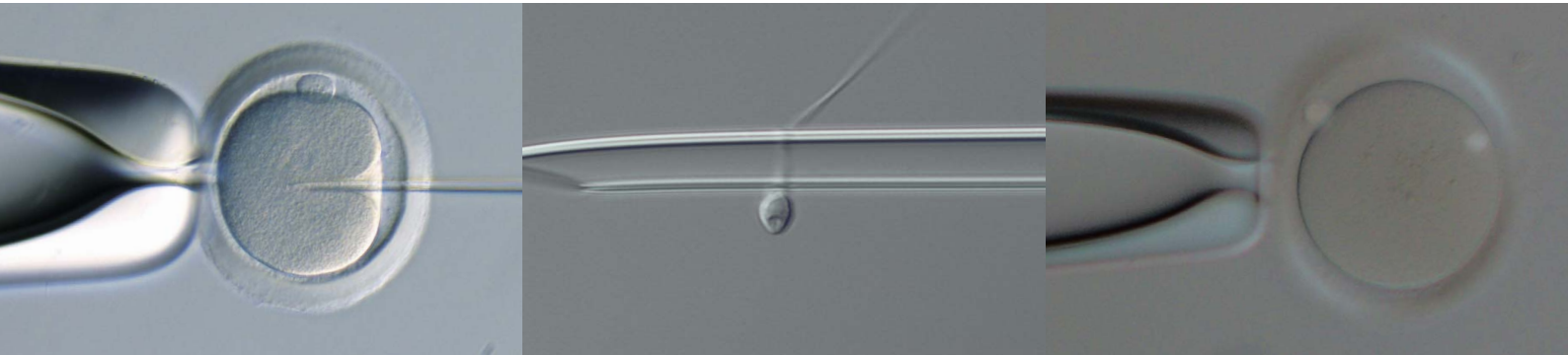


ICSI System for Accurate and Speedy Operation



Speedy Automated Microscope Operation Supports Intracytoplasmic Sperm Injection (ICSI) Workflow

The ICSI Standard Model with Motorized Switching of Observation Methods

- Speedy switching of the observation methods can be done by a simple button hand-switch exclusive to ICSI operation.
- Spindle observation is available as standard in Semi-motorized system. IMSI units are also available as an option.



IX73 (Semi-motorized) configuration

SPECIFICATIONS

Combination	IX73 (Semi-motorized)	IX73 (Manual)
Switching of objective magnification and condenser position	Motorized	Manual
ICSI (Relief-contrast)	Motorized	Manual
Observation methods	IMSI (Differential interference)	–
	Spindle observation (Polarizing)	–

Observation Methods

ICSI (Intracytoplasmic Sperm Injection)

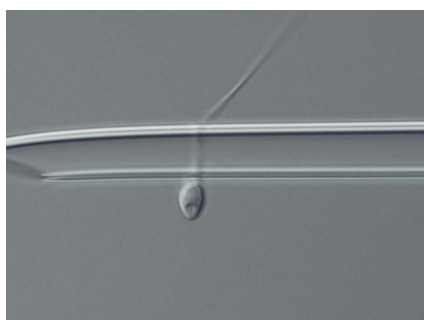
Olympus' relief-contrast allows the observation of 3-dimensional oocytes in plastic dish. Relief-contrast observation is suitable for ICSI to check the condition of oocyte zona pellucida, because it is not affected by the polarizing effect of plastic dish.



Relief-contrast observation image

IMSI (Intracytoplasmic Morphologically Selected Sperm Injection)

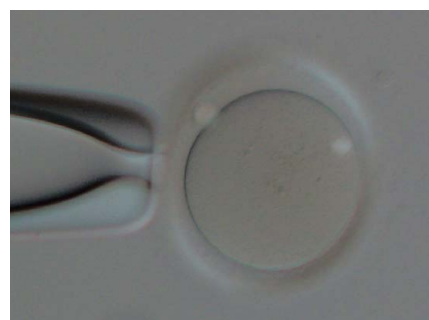
The IMSI method for the injection of morphologically selected sperm into oocyte is also an option with the IX73 system. Shape, size, and number of vacuoles in the head of sperm can be confirmed by differential interference observation at a high magnification.



Differential interference observation image

SL-ICSI (Spindle Localization ICSI)

Mature oocytes in metaphase II can be easily confirmed by observing the appearance of spindle using polarizing observation. The spindle does not always locate near the first polar body, so location of the spindle is important in ICSI to avoid damaging it during injection.



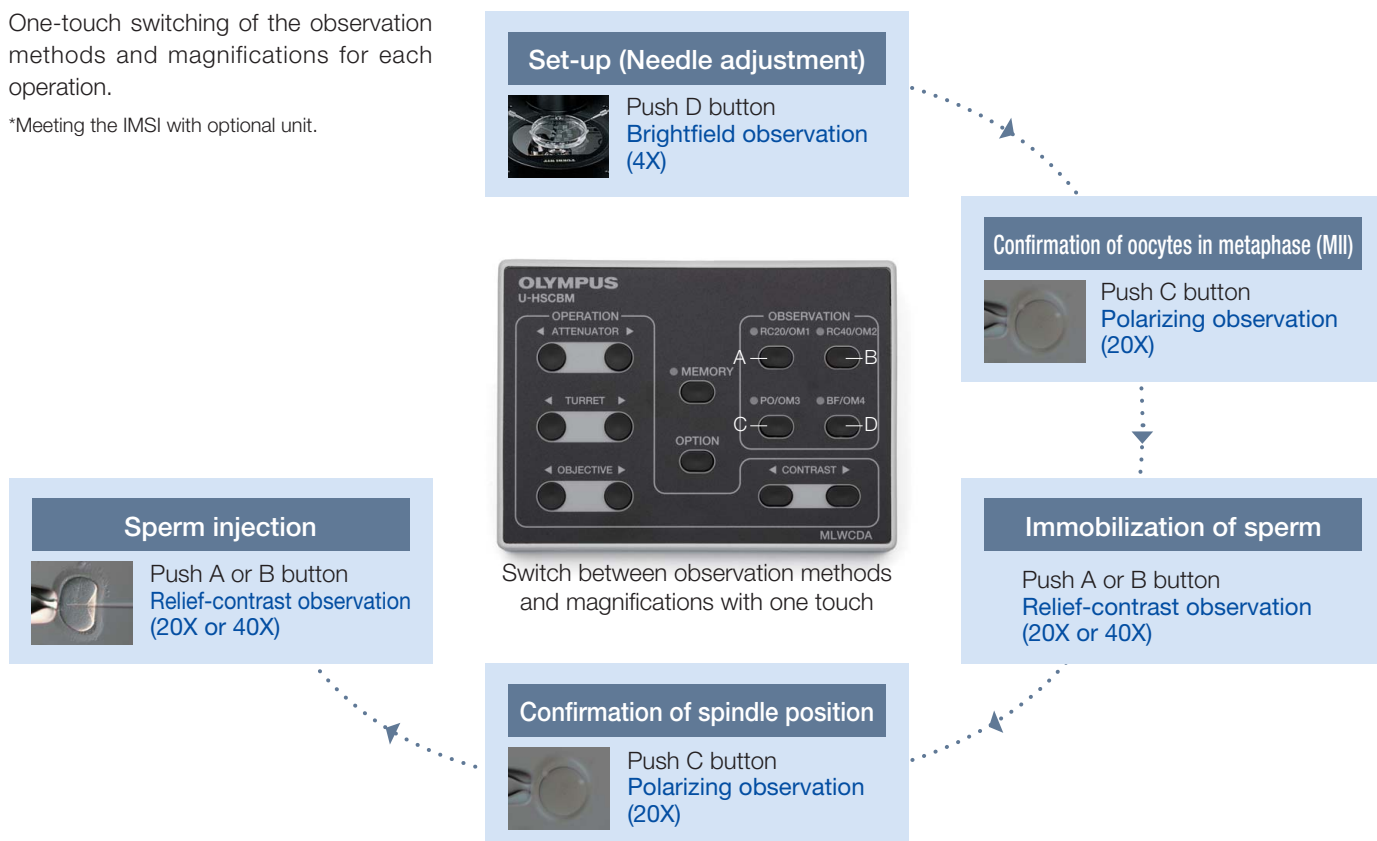
Polarizing observation image

*Sample and image data are courtesy of Dr. Kazuo Uchiyama

ICSI System (Spindle Observation): An Example of Workflow in IX73 (Semi-motorized)

One-touch switching of the observation methods and magnifications for each operation.

*Meeting the IMSI with optional unit.



Olympus' Solution to Optimize IVF Workflow

System Microscope

BX53 Biological Microscope

Olympus' infinity-corrected optical system UIS2 allows high-contrast phase contrast observation with LED illumination for andrology.

*For Research Use Only.



BX53

SZX16 Stereo Microscope

Olympus' SZX16 features a wide zoom ratio of 1:16.4 and good contrast for oocyte and embryo observation, and its ergonomic design provides less eye fatigue and high operativity.

*For Research Use Only.



SZX16 (Cradle: SZ2-ILLK)+DP22

Microscope Digital Camera

DP22 Color Camera

High resolution beyond high vision and high speed live imaging provide stress-free ICSI operation. Still image and movies can be saved.

*For Research Use Only.



DP22

- OLYMPUS CORPORATION is ISO14001 certified.
- OLYMPUS CORPORATION is ISO9001 certified.
- Illumination devices for microscope have suggested lifetimes. Periodic inspections are required. Please visit our website for details.

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Printed in Japan N8601008-022018