

### **Leica CW4000 MFISH – Multi-Coloured Fluorescence *In-Situ* Hybridization**

The Leica CW4000 MFISH application is a versatile, leading edge analysis tool which reflects the need for a flexible multi-colour imaging system, as highlighted by recent developments in MFISH technology.

The applications flexibility is shown in it's proven ability to:

- analyse samples from combinatorial labelling schemes using 5, 6 or 7 fluorochromes,
- study whole chromosomes,
- study telomeres or specific regions of chromosomes.

#### **In addition Leica CW4000 MFISH allows:**

- An image to be displayed as a metaphase, karyogram, classification or a rendered coloured image.
- Dynamic separation of touching and overlapping chromosomes.
- The classification of each pixel according to a combinatorial labelling scheme.
- Simultaneous display of all fluorochrome components from selected chromosomes.
- Probe meter indication of relative fluorochrome intensities and chromosome classification at selected pixels.

# Leica CW4000

## MFISH – Multi-Coloured Fluorescence *In-Situ* Hybridization

**Leica**

MICROSYSTEMS

**Additional Benefits:**

- Dynamic adjustment and enhancement of colour components in rendered images.
- Standard FISH capture techniques, using automated microscopes or filters in conjunction with an external filter wheel.
- Fully customisable to different combinational labelling schemes.
- MFISH karyotyping and classification of telomeres.

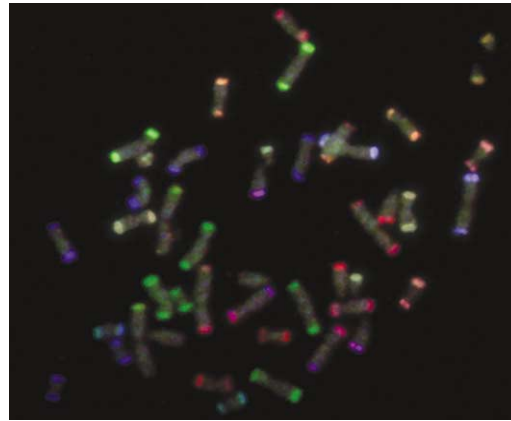


Image above – Courtesy of Dr. Christine Fauth and Dr. Michael Speicher, Institute of Human Genetics, GSF and TU Munich, Germany.

Image overleaf – Courtesy of Dr Yumiko Suto, Biological Sciences, University of Tokyo, Japan.

	Complete Cytogenetics System CW4000	System for High Resolution MFISH	System for High Resolution CGH	System for High Resolution Karyotyping	Review System	Main System	System for Standard FISH	System for Standard Karyotyping
Camera	*Digital DC500	*Digital DC350F	*Digital DC350F	*Digital DC350F	No Camera	Video CCD	Video CCD	Video CCD
Applications	KARYO	KARYO	KARYO	KARYO		KARYO		KARYO
	FISH	FISH	FISH			FISH	FISH	
	MFISH	MFISH	CGH			CGH		
	CGH							
	MFISH Filterset							
Options		CGH	MFISH	FISH	KARYO		CGH	FISH
					FISH			
					CGH			
					MFISH			

\* Alternative cameras available, including Photometrics Sensys, CoolSNAP fx and Hamamatsu Orca.

**Leica CW4000 is the most powerful cytogenetics imaging solution because it is:**

- Designed in close collaboration with leading cytogeneticists.
- A fully networkable system that harnesses the needs of all laboratory throughput levels.
- Compatible with Leica Digital Cameras offering a high resolution solution.
- Able to take full advantage of the automated Leica Microscope facilities.
- Designed to meet the stringent archiving and security measures required for patient data.

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