

Leica CW4000 CGH – Comparative Genomic Hybridization

The combination of accurate karyotyping with CGH analysis tools provides the most advanced CGH system commercially available. Additionally, the incorporation of digital camera technology delivers unrivalled high resolution CGH analysis, whilst the streamlined karyotyping tools make the system suitable for research and routine studies. Leica CW4000 CGH offers:

- The ability to threshold a combined inverted DAPI and reference image mask ensuring complete inclusion of telomeres.
- Fast and efficient comparisons of results through simultaneous multiple displays.
- Accurate classification adaptable to multiple species including human, mouse and rat.
- An interactive ratio normalisation facility.
- A ratio image viewing facility of metaphase and karyogram.
- Quality control measurements including, coefficient of variation, dynamic range, homogeneity and granularity.

Leica CW4000

CGH - Comparative Genomic Hybridization

Leica

MICROSYSTEMS

Additional Benefits:

- Streamlined karyotyping including dynamic separation of touching or overlapping chromosomes.
- Unique two scale gain/loss bars to highlight significant amplification and deletion regions.
- Trainable classifier providing easy generation of user defined classifiers.
- Precise correction of centromere and chromosome midline locations.
- Flexible contrast and image enhancement to optimise inverted DAPI banding.

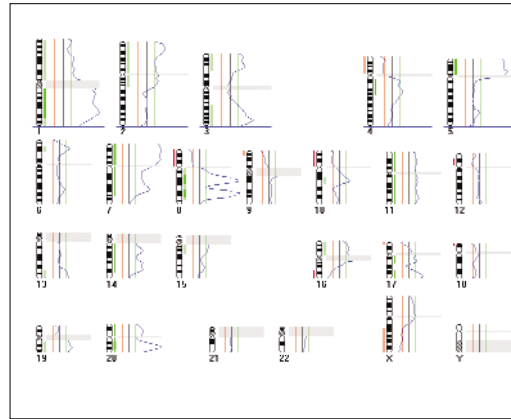


Image above – Courtesy of Dr Tanja Hardt and Dr Evelin Schröck, Tumor Genetics and Molecular Cytogenetics, Institute of Medical Genetics, Charité, Humboldt University, Berlin, Germany.

Image overleaf – Courtesy of Dr Cristina Montagna and Dr Thomas Reid, National Cancer Institute/NIH, Bethesda, USA.

	Complete Cytogenetics System CV4000	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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