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 its 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.
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.

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.