MetaClass
KARYOTYPING - FISH

MetaClass Karyotyping is a completely automatic system that enables the user to classify chromosomes from metaphase preparations.

The excellent image quality allows the easy identification of variations in the number and structure of all chromosomes.

An optional **FISH** (Fluorescence In Situ Hybridization) module can be incorporated to confirm genetic and chromosomal abnormalities associated to infertility and specific syndromes.
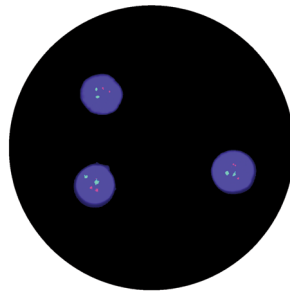
The MetaClass application is intended for users with no previous experience on using computer packages and systems, and its functions can be learned with only a couple of examples.

Precise
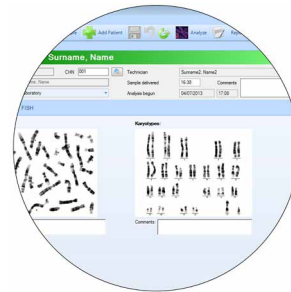Efficient
User-friendly
Cost-effective

KARYOTYPING AND FISH AUTOMATIC SYSTEM USED IN HUMAN CYTOGENETIC STUDIES OF CHROMOSOMES
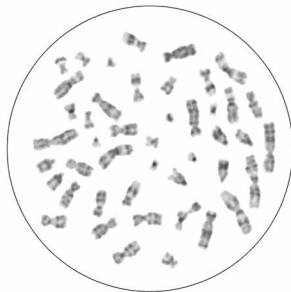
KARYOTYPE

FISH

DATABASE

Compatible with Q, R, G bands
New interface design, more modern and easy to use
Calculate ISCN formula automatically
Compatible with Windows 10

KARYOTYPING

Simple but powerful user interface: The application's graphic interface displays all the available options on one single screen, which simplifies use. At the same time, the user can see the results obtained at any given moment, which reduces the task of classification and reports.

Automatic classification: Once metaphase is captured, each chromosome is automatically arranged according to size, position of centromeres and banding pattern.

Powerful tools: In order to obtain complete karyotypes, additional set of graphic support tools have been developed to allow separation of overlapped and crosswise chromosomes.

Several images: The application can rebuild a metaphase from different images, deleting any duplicated chromosome if required.

Chromosome details: Allows to mark bands and add comments to highlight relevant information.

FISH

A FISH module can be incorporated or used independently. It can acquire fluorescence images from fluorescence filters. MetaClass FISH contains all needed tools to include text or symbols.

DATABASE

Includes the optional use of an integrated database facility for easy access to results and reports stored for an individual patient or sample.

Reports: Detailed reports with images and a specific language customization can be automatically produced by the system.

MINIMUM REQUIREMENTS:

	KARYOTYPING	FISH
COMPUTER	Desktop or laptop: Operating system Windows 10 (32 or 64 bits); Processor: Intel Core i5 or superior; RAM: 4 GB or superior; USB 3.0 port	
CAMERA	Basler Ace acA1300-200uc	
MICROSCOPE	Nikon, Olympus, Zeiss or Leica	Trinocular C-mount 0.7x (recommended) or 1x	
OBJECTIVE	100x (oil immersion)	
OBSERVATION METHOD	Brightfield	Fluorescence
FILTER	Green filter	Different fluorescence filters

CE   IVD

DISTRIBUTOR:

MICROPTIC
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