



Digital Karyotype Application Kit

Genetic Clarity Unveiled



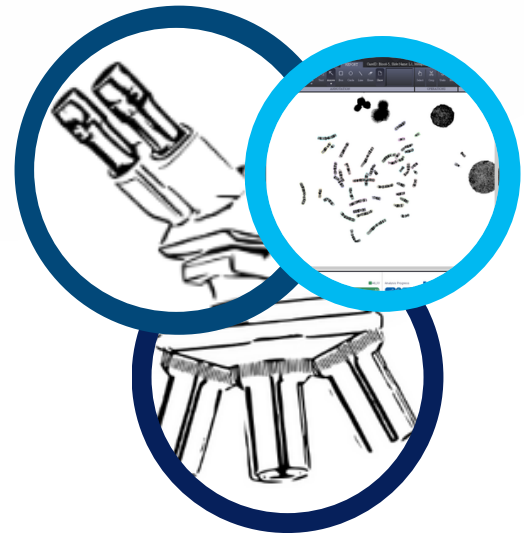
Embrace the future of karyotype analysis with BioView's innovative application. Empowering researchers and clinicians alike, we offer a comprehensive solution that combines web-based convenience, intelligent decision support, ergonomic design, automated tools, and high-level automation.

Experience a new era of genetic analysis efficiency and accuracy with our state-of-the-art Karyotype Application.

Highlights

- Fully featured web based application for secure remote analysis and report from any location
- Ideogram editor with automatic ISCN formula generation
- Automatic ISCN formula generator and interactive ideogram editor
- Multiple species and workflow support, customized for sample type and quality
- AI algorithms for metaphase detection, segmentation and classification
- Powerful band enhancement tools

Compatible with any Microscopy & Sample



Versatility

BioView software is compatible with wide range of microscope models. Review and analysis can be performed using BioView's provided application from any computer in laboratory using standard web browsers.

AI Powered Automatic Karyotyping

Experience the power of automation at every step of the analysis. Utilizing live metaphase detection, AI facilitated analysis and report generation. With cutting-edge AI algorithms the software accurately separates and classifies chromosomes, ensuring reliable and consistent results while reducing manual effort.

Embedded Decision Support System

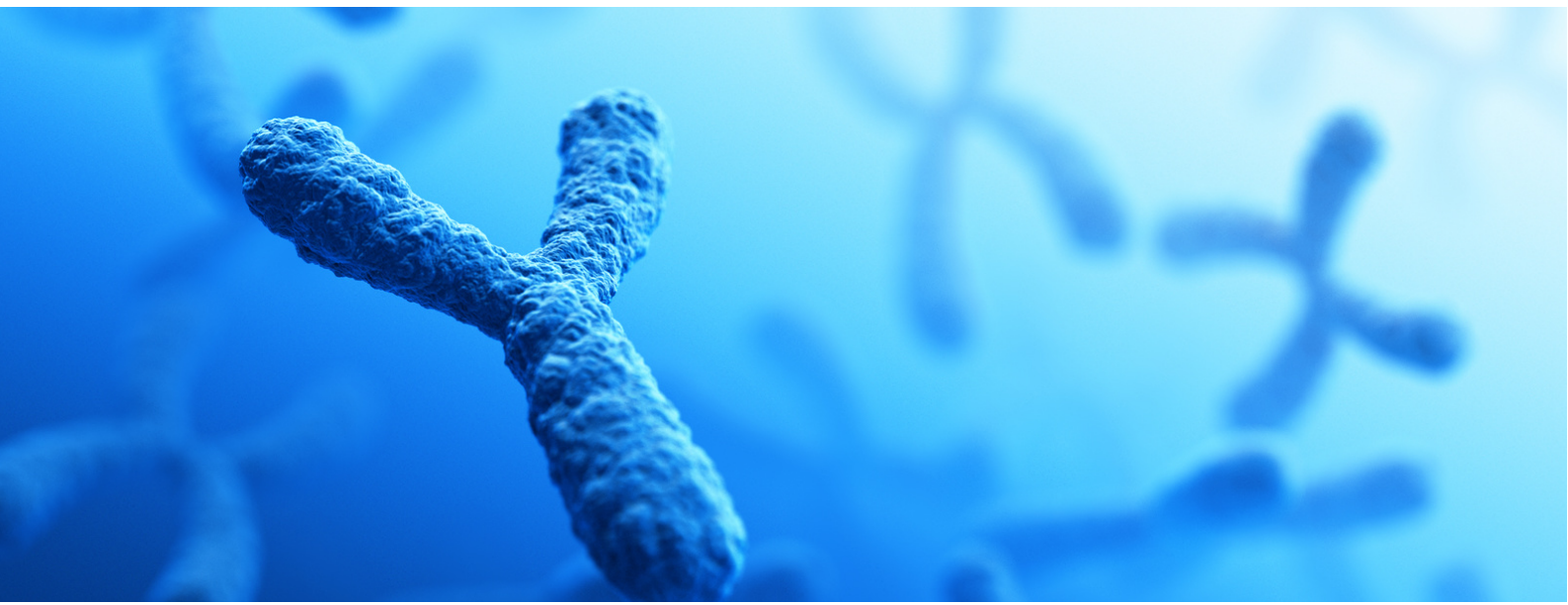
Enhancing your decision-making process, our application incorporates an embedded decision support system. Powered by advanced algorithms and expert knowledge, this system offers real-time guidance, assisting you in interpreting karyotype results and making informed clinical decisions.

Sophisticated Tools Reducing User Interaction

Eliminate tedious and time-consuming Karyotype analysis tasks. Our application features a suite of sophisticated tools that minimize user interaction, automating repetitive processes. From image analysis to karyotype classification, these intelligent tools streamline your workflow, freeing up experts valuable time.

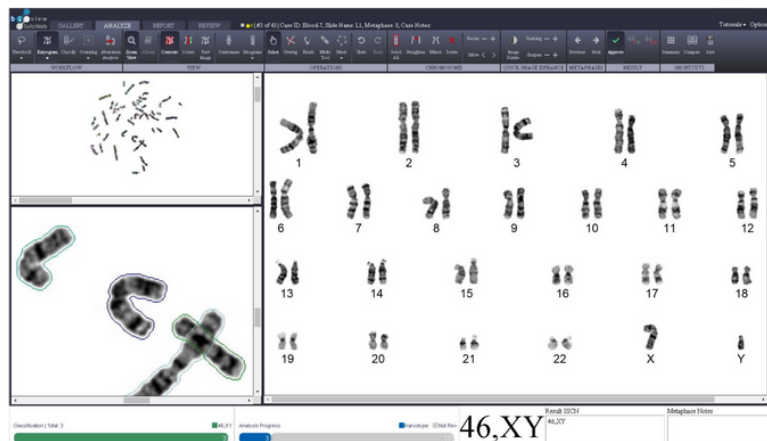
Ergonomics and Layout

We understand the importance of user comfort and productivity. Our application is designed with ergonomic principles in mind, ensuring an intuitive layout that optimizes workflow efficiency. Navigate through the application effortlessly, allowing you to focus on the genetic analysis without unnecessary distractions.



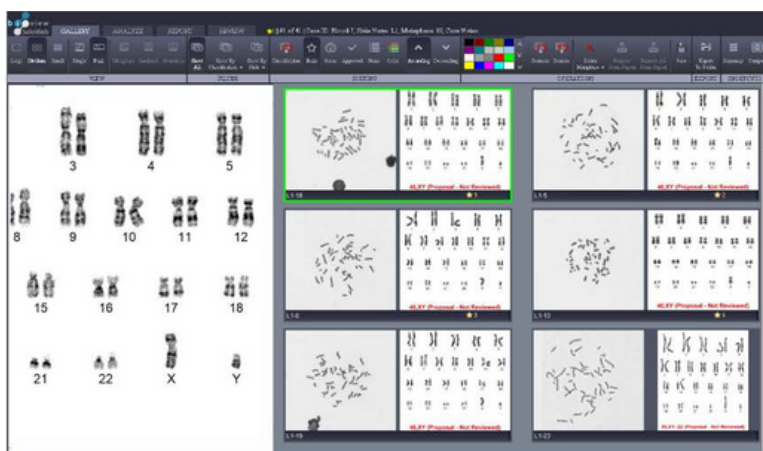
Ribbon Graphic Control

Ribbon tabs expose different sets of controls relevant to the analysis progress, eliminating the need for manually switching between sets of controls.



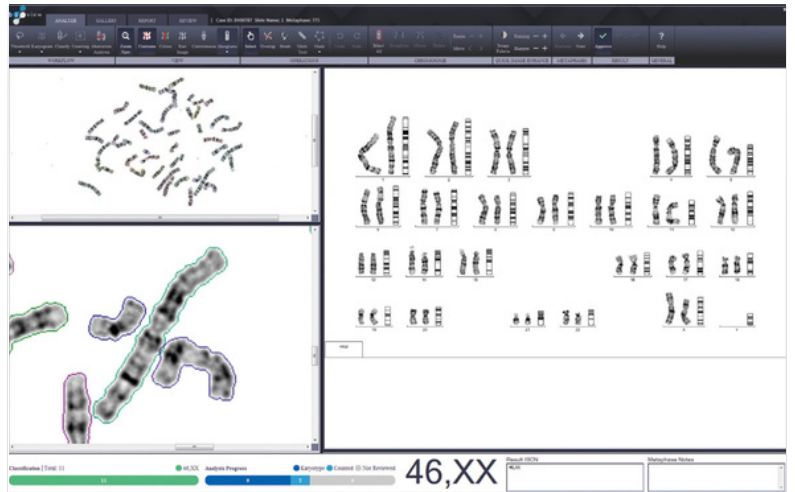
Metaphase Gallery

Automatically karyotyped metaphases are presented in the case introduction gallery. Case gallery facilitates rapid selection of appropriate metaphases to be analyzed, and provides instant impression of case result.



Multi-View Analysis Screen

Analysis screen is separated into 3 active working regions, each displayed at optimal size, and designed to ease and facilitate the chromosome / metaphase analysis process.



Multi-tool

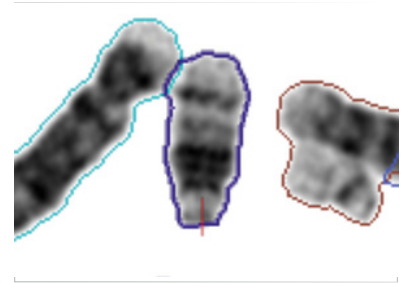
Various advanced chromosome editing tools can be invoked with simple mouse gestures. The Multi-tool is available in all active working regions.



Complex overlap resolution



Free hand line draw or double click to separate touching chromosomes



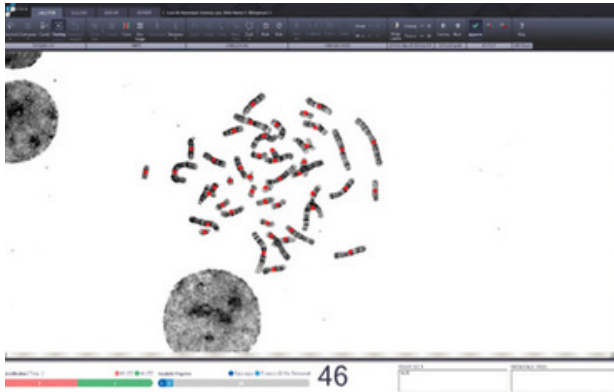
Line draw to extend chromosome boundaries to include lightly stained telomeres

Ideogram Editor with Automated ISCN Interpretation

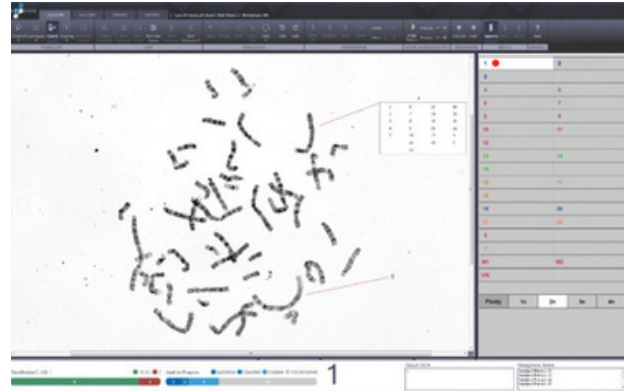
Ideograms can be edited to reflect chromosomal aberrations, including deletions, inversion, translocations with different chromosomes. ISCN interpretation is automatically added based on the edited ideogram.

Fast Chromosome Count and Classification

Automated count of chromosomes with easy to use graphical annotation for chromosome classification.



Software automatically counts chromosomes



Optional classification of chromosomes with easy to use floating analysis menu

Advanced Chromosome Comparison Tools

Side by side chromosomes presentation of multiple analyzed metaphases from a same case or from different cases.

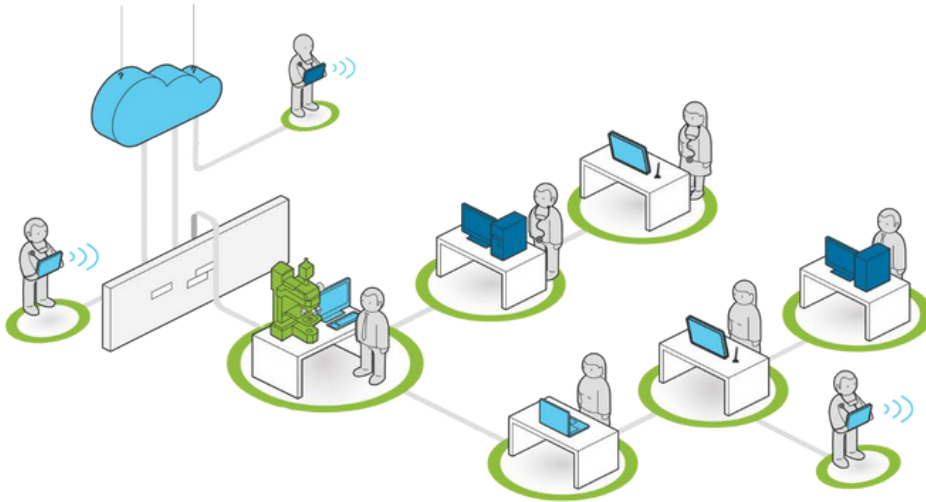
AI comparison tool for presentation of chromosomes from metaphases that have not been analyzed.



Chromosome comparison tool presents full metaphase image and karyogram of selected metaphase. Metaphase chromosomes can be further edited without need to switch to analysis window

Web application

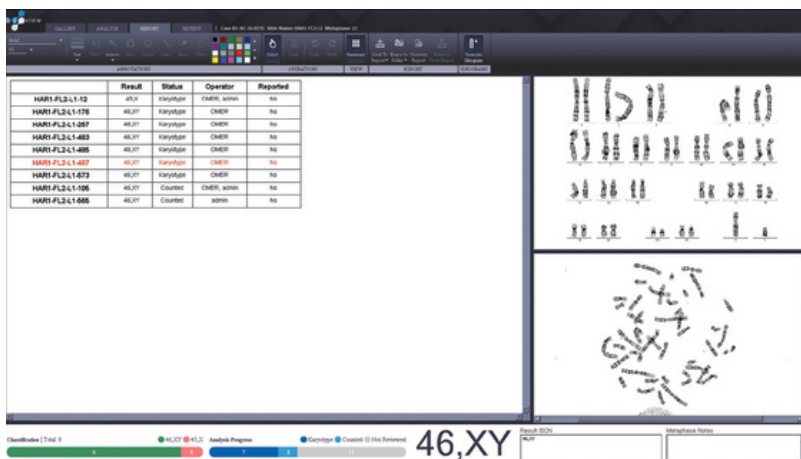
Experience the convenience of our web-based platform, allowing you to access, analyze and report karyotype cases from anywhere, at any time. With a seamless interface and robust functionality, our web application provides a user-friendly environment for streamlined data management and collaboration.



Supervisor and Workflow Control Tools

BioView's case review dashboard dramatically improves the supervisor's ability to effectively overview cases analysis progress using the desktop platform or over the web.

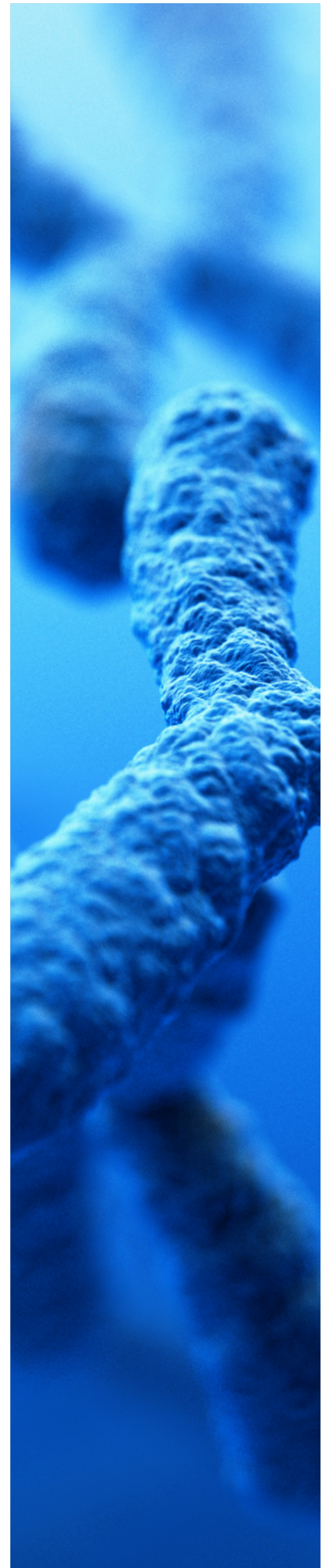
Dashboard overview of all scored metaphases, with ability to quickly access and modify specific metaphase analysis facilitates quality review and case report.



Result	Status	Operator	Reported
HARI-FL2-L1-12	46,XY	Karyotype	CMER, same
HARI-FL2-L1-176	46,XY	Karyotype	CMER
HARI-FL2-L1-287	46,XY	Karyotype	CMER
HARI-FL2-L1-483	46,XY	Karyotype	CMER
HARI-FL2-L1-486	46,XY	Karyotype	CMER
HARI-FL2-L1-487	46,XY	Karyotype	CMER
HARI-FL2-L1-497	46,XY	Karyotype	CMER
HARI-FL2-L1-673	46,XY	Karyotype	CMER
HARI-FL2-L1-106	46,XY	Counted	CMER, same
HARI-FL2-L1-666	46,XY	Counted	same

46,XY

Case summary page displays all analyzed metaphases next to type of analysis performed as well as analyzed operator.



BioView digital karyotype application kit includes:

- High resolution CMOS sensor digital camera
- Software license

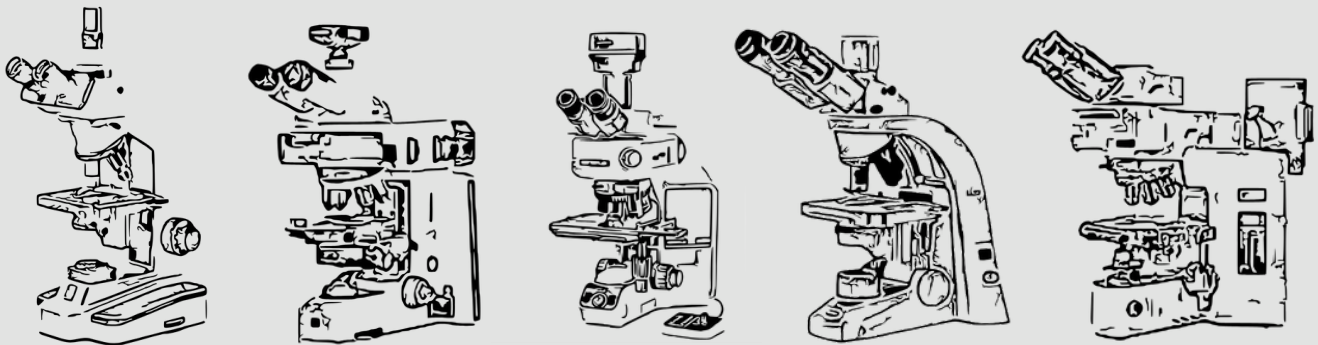
Minimal requirements

Bright light microscope equipped with:

- 100X oil immersion objective, 1.3 NA or higher
- 10X objective
- Condenser with top lens of 0.9 NA or higher
- Green filter in BF light path
- Trinocular

Computer:

- Windows 10 Pro 64bit operating system
- Processor: Intel Core i5
- 16GB memory
- Graphic card: Nvidia T1000, 4GB (or equivalent)
- Hard disk: 500Gb



Under CE/IVDR, the image-capture module is intended for in-vitro diagnostic use as an aiding tool for the detection, classification, and counting of cells of interest based on color, intensity, size, pattern, and shape. It is the end user responsibility to validate its use in combination with commercial reagents and materials for a specific clinical application.

The Karyotype analysis software is for Research Use Only.

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