KROMATID

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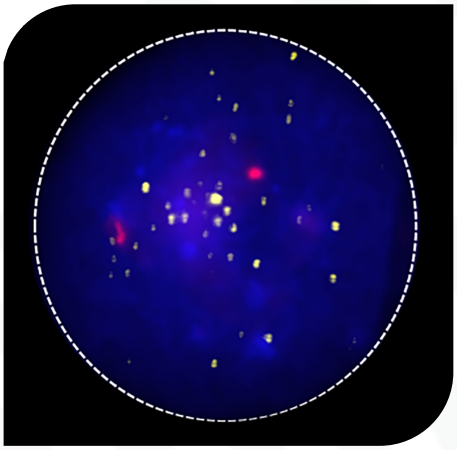
KROMASURE™ PinPoint

High-Throughput Transgene Integration Analysis

The Gold Standard for Non-Metaphase (In Nuclei) Genomic Insight

PinPoint™ is a proprietary solution designed to deliver high-thruput, single-cell-level analysis of transgene integration. Optimized for modern genomic research, PinPoint detects integration events as small as **2kb**, setting a new benchmark for precision in edit integrity analysis.



While sequencing has long been the standard for assessing insertional copy number in cell and gene therapy, it provides only an average from pooled cell populations and algorithmic estimates. By analyzing individual cells, developers can uncover the true distribution of integrations - often highly variable from cell to cell.

With PinPoint you can visualize transgene integrations in thousands of cells. This gives developers expanded capability into how their platform behaves at a cellular level, helping them understand transgene distribution with far greater precision.

CORE CAPABILITIES

- **Characterize Small Target Integrations**
  Detects transgenes and genomic targets as small as **2-10kb** with high specificity.
- **Single-Cell Resolution**
  Measures **copy number** and **modal distribution** of integration events at the chromosome and **cell level**.
- **Transgene Enumeration**
  Accurately quantifies the number of transgene copies per nucleus.
- **Deletion Analysis**
  Identifies **deleted genetic material**, beyond just functional knockouts.
- **Flexible Sample Compatibility**
  Works with **hepatocytes** or **any interphase cell**, eliminating the need for metaphase preparation.

INSERTIONAL COPY NUMBER INSIGHTS

- **Precise Chromosomal Mapping**
  Tracks where transgenes insert in the genome, down to individual chromosomes.
- **High-Throughput Statistical Power**
  Analyzes thousands of nuclei for robust, data-driven conclusions.
- **Risk Profiling & Compliance**
  Supports regulatory needs by building a solid foundation for risk assessment.
- **Modal Distribution**
  Understands how integration events vary across cells for population-wide clarity.
- **Aneuploidy Detection**
  Detects monosomy and accurately measures ploidy (chromosome copy number variation).
- **Integrated Data Analysis**
  Fully compatible with KROMASURE™ InSite for comprehensive, orthogonal data interpretation.

APPLICATIONS

Measure Genomic Integrity

Assess Edit Integrity

Map Transgene Insertion

Support Regulatory Compliance