KromaTiD

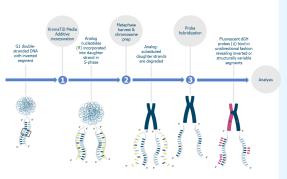
Direct, Definitive Genomics

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What is dGH?

directional Genomic Hybridization



Beyond Metaphase FISH!



Learn More Here!



Acknowledgements

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Characterizing Genotoxic Variants Both Big and Small

Whole Genome? Think dGH SCREEN

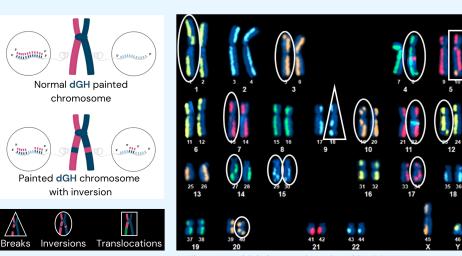


Figure 1: Multiple large variants in a dGH SCREEN Karyogram

Small Target? Think dGH In-Site

Labeling Random and **Targeted Insertions**

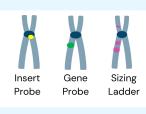




Figure 2: Random insertions of a 10 Kb dGH In-Site insert probe

Quantifying rare genotoxic variants?

Think dGH AI

Detecting rare variants at 0.1% prevalence

With 2,000 metaphase cells



Figure 3: Raw 5- and 3-color dGH metaphase spreads

With 92,000 chromosome tiles

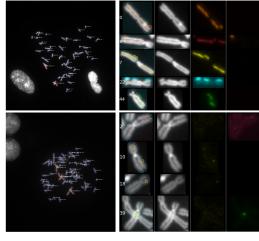


Figure 4: Spreads segmented into chromosome tiles

With >3.5 million datapoints

- Chromosome morphology
- Spot/Signal statistics
- Custom ML/Al models