

#### OncoTerra<sup>™</sup> Platform

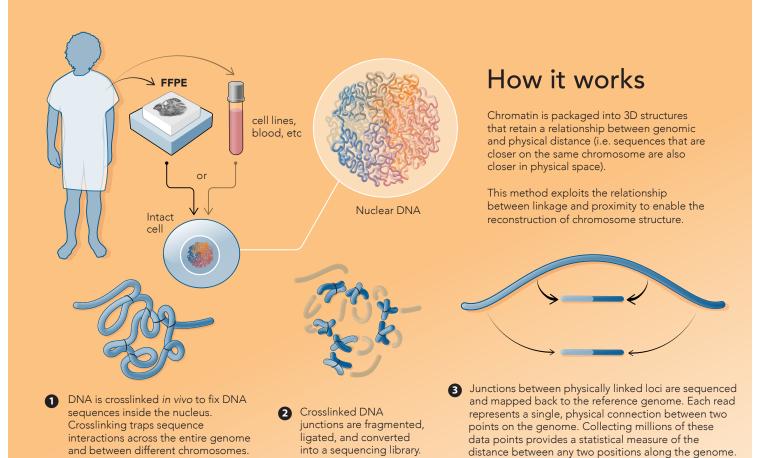


# Access New Insights in Precision Oncology

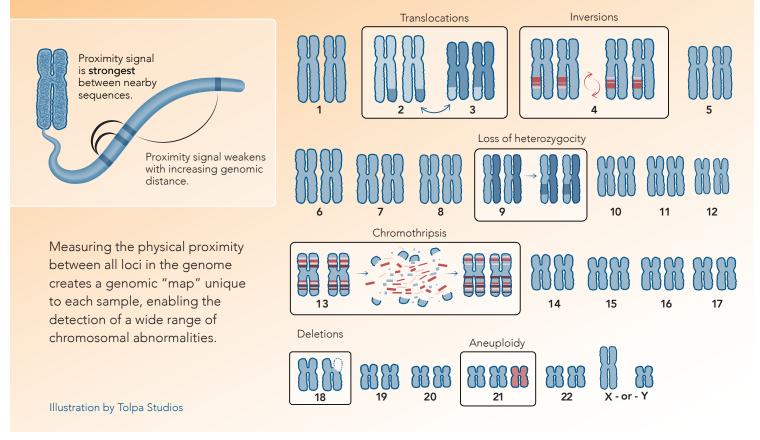
The OncoTerra<sup>™</sup> Oncology Platform leverages high-resolution genomic technology to expand the potential of precision oncology. It takes advantage of the unique strengths of ultra-long-range sequencing to unlock the wealth of diagnostic and prognostic information contained in FFPE samples, in a cost-effective and scalable NGS-based assay.

### Key features and benefits:

- Genome-wide detection of chromosomal abnormalities in a single, NGS-based assay
- Comprehensive cytogenomic information from FFPE samples
- Compatible with a wide variety of sample types without dedicated instrumentation
- New molecular technology with companion analytics



## **Reconstructing the Genome**



## Single, Genome-wide NGS Assay

Powered by Phase Genomics' ultra-long-range sequencing technology, the OncoTerra<sup>™</sup> Platform leverages the unique strengths of proximity ligation to characterize the breadth of chromosome abnormalities in a single assay.



Unlock the wealth of potential diagnostic and prognostic information contained within non-viable, FFPE, frozen, and fresh samples. Ultra-long-range sequencing does not require actively dividing cells or high molecular weight DNA extraction.



Reduce turnaround time and cost by characterizing the breadth of chromosome abnormalities in a single, scalable NGS-based assay.



Simultaneously detect all major types of genomic rearrangements that cause and characterize disease, on a genome-wide scale.

## Automated Analytics Yield Actionable Results

The OncoTerra Platform provides a sample-toreport NGS-based cytogenomics assay that starts with a solid tumor (e.g., FFPE) or hematological sample, and ends with a comprehensive and actionable report in standard ISCN and sequencebased nomenclature.

Fully automated, cloud-based analysis of pairedend Illumina<sup>®</sup> sequencing data is performed with Phase Genomics' proprietary computational tools.

The entire process can be completed in less than a week, and is scalable to large numbers of samples.





Phase Genomics has played a leading role in delivering ultra-long-range sequencing technology and computational tools to the life science research community, with a proven track record of enabling deeper insights into the architecture, variation, function, and complexity of genomes, epigenomes, and metagenomes. That same know-how and expertise has been used to create the OncoTerra<sup>™</sup> Platform. This platform is our first offering that leverages ultra-long-range sequencing to deliver a cost-effective, high-throughput assay for uncovering potential genomic etiological underpinnings of human health and disease. Through the platform's impactful and actionable insights, we are enabling translational discoveries that will ultimately lead to faster precision diagnoses, treatment, and improved health outcomes.



The OncoTerra Platform is currently offered as a comprehensive sample-to-report service. Contact us to inquire about RUO kits compatible with existing low- and highthroughput sample processing pipelines.





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