10x Genomics' New Chromium System Enables Full Access to Critical Molecular and Cellular Information

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One System, One Workflow, Powerful New Sequencing Applications

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10x Genomics today introduced the new Chromium System, a transformative upgrade for existing short-read sequencers. The Chromium System unlocks critical long range genomic and cell-by-cell gene expression information. The system supports the following applications:

- Chromium Single Cell 3' performs deep profiling of complex cell populations with high-throughput digital gene expression on a cell-by-cell basis. Tracing expression profiles to individual cells ensures biologically relevant signals are not masked by bulk average measurements.
- Chromium Genome provides long-range information on a genome-wide scale, including variant calling, phasing and extensive characterization of genomic structure, enabling identification of critical variants in heritable disorders and discovery of key alterations in cancer.
- Chromium Exome provides long-range information for phasing, structural variant detection and copy number determination, giving researchers access to low-complexity and repetitive regions previously missed with short-read sequencing.
- The Supernova Assembler opens the door to low-cost, everyday diploid *de novo* assemblies by unlocking sample-specific sequence and produces diploid genome structure.

"The Genomics Platform at the Broad Institute has obtained exciting results for multiple applications using the GemCode technology from 10x Genomics," said Dr. Stacey Gabriel from the Broad Institute of MIT and Harvard.

10x Genomics will be sharing more details about the new system at the Advances in Genome Biology and Technology (AGBT) conference currently in progress. Dr. Gabriel and Dr. Scott Furlan from the University of Washington will be sharing compelling results during the 10x seminar on Friday, Feb. 12. Several additional customers will be presenting their exciting discoveries with powerful Linked-Read data throughout the conference.

Serge Saxonov, Ph.D., CEO and Founder of 10x Genomics, commented "We are extremely proud to introduce the Chromium System, which provides the benefits of GemCode technology, including long range information, megabase-scale phasing, uniform coverage, and structural variant detection while integrating single cell sequencing into the same system. Single cell sequencing provides customers access to yet another cutting edge capability. Finally, our new *de novo* assembler represents the true genome."

The Chromium System is delivered ready to run, with reagents, consumables, and turnkey software for analyzing and visualizing data and is compatible with all major Illumina sequencers including the HiSeq X Ten.

About 10x Genomics

10x Genomics meets the critical need for long range, structural and cellular information, with an innovative system that transforms the capability of existing short-read sequencers. Our Chromium™ System supports comprehensive genomics and high-throughput single cell transcriptomics. It enables researchers to discover previously inaccessible genomic information at unprecedented scale, including phased structural variants, phased single nucleotide variants, and dynamic gene expression of individual cells—while leveraging their existing sequencing systems and workflows. For more information, please visit www.10xGenomics.com.

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