10x Genomics Expands Offering by Launching New Single Cell Solution Focused on DNA

April 13, 2018

–Early access researchers will present data at the annual meeting of the American Association for Cancer Research in Chicago this week–

PLEASANTON, CA.—April 13, 2018—10x Genomics, a company focused on accelerating genomic discovery, today launched the Chromium Single Cell CNV Solution, which is the first scalable and easy-to-use technology for rapid and massively parallel profiling of single cell genomes. This new solution is the first to be built upon their new technology advancement for generating Cell Beads and Gel Beads (CBGBs), recently unveiled during the Advances in Genome Biology and Technology Meeting (AGBT) in February 2018. The company will begin accepting pre-orders today with anticipated delivery beginning in July 2018.

Current commercial methods for copy number variation (CNV) profiling involve either manual manipulation of single cells, which limits throughput, or bulk sequencing, which prevents identification of rare subpopulations of cells that may contribute to disease progression. The Chromium Single Cell CNV Solution overcomes these limitations and enables preparation of hundreds to thousands of single cells for CNV profiling within minutes on either the Chromium Controller or the Chromium Single Cell Controller.

The Chromium Single Cell CNV Solution accurately profiles the genomes of individual cells and powers a broad range of research opportunities, which include revealing tumor heterogeneity, characterizing somatic mosaicism of neurons, as well as authenticating cell line identity and clonal purity. Of crucial importance to cancer research, the Chromium Single Cell CNV Solution provides more detailed insight into the clonal structure of cancer samples, including spatial distribution across tumor slices and longitudinal changes. This high-resolution view of cancer heterogeneity may be used to trace clonal evolution during tumor growth, treatment response, and development of drug resistance.

“It is a game changer for the field to decipher genomic clonal heterogeneity across thousands of individual cells within a specimen. This could ultimately have important implications for understanding which drugs are right for which patients,” says John D. Carpten, Professor at the Keck School of Medicine, University of Southern California (USC), and Co-Director of the USC Institute of Translational Genomics. Carpten and institute Co-Director David Craig are among the few researchers with early access to the Chromium Single Cell CNV Solution and will be presenting their analyses at this year’s annual meeting of the American Association for Cancer Research (AACR), April 14-18, 2018, in Chicago, IL.

“A definitive view of clonal heterogeneity and evolution at the single cell level is fundamental to understanding cancer. In combination with our single cell transcriptome and T and B cell immune repertoire sequencing solutions, we see potential to enable a wave of groundbreaking translational research,” said Serge Saxonov, CEO and co-founder of 10x Genomics.

The solution also includes a comprehensive software suite from 10x Genomics to rapidly analyze and visualize large single cell CNV experiments. The Cell Ranger DNA analysis pipeline provides a turnkey solution for single cell CNV calling and clustering. The Loupe scDNA Browser provides a powerful and easy-to-use tool for inspecting and interrogating genomic regions and cell clusters.

For more information and tutorial videos about the Chromium Single Cell CNV Solution, visit 10xGenomics.com/solutions/single-cell-cnv.

For those attending AACR, early access users and scientists at 10x Genomics will be giving talks and presenting posters based on the Single Cell CNV Solution throughout the conference. A full show guide is available at go.10xgenomics.com/AACR18ShowGuide. A short list of events is below:

10x Spotlight Theater (Sunday April 15: 1:30 – 2:30 p.m., Theater A)

- “Revealing the True Biology of Cancer” by Anushka Brownley, 10x Genomics
- “Understanding Population and Tumor Heterogeneity in Cancer Disparities” by Prof. John D. Carpten, Keck School of Medicine

Plenary Presentation

- “Elucidating the complexities of cancer” by Prof. John D. Carpten, Keck School of Medicine (April 16: 8:15 – 10:15 a.m., North Hall B of McCormick Place North, Level 3)

Early Access User Posters

- “Leveraging new methods in single-cell copy number analysis and clonotype detection to uncover and characterize hidden subclones within standard cell lines” by Enrique Velazquez Villarreal, Keck School of Medicine (437/22, April 15: 1 – 5 p.m., section 19)
- “Integrated single-cell DNA and RNA analysis of intratumoral heterogeneity and immune lineages in colorectal and gastric tumor biopsies” by Billy Lau, Stanford University (4347/17, April 17: 1 – 5 p.m., section 16)
- “Sensitive single copy number profiling using a novel microfluidic droplet based platform” by Rui Li, McGill University (2177/2, April 16: 1 – 5 p.m., section 8)

10x Genomics Scientist Posters

- “Identifying genetic variation and cellular heterogeneity with a comprehensive cancer analysis toolkit” by Sarah Garcia (281/2, April 15: 1 – 5 p.m., section 12)
- “A scalable microfluidic platform for determining cellular heterogeneity by copy number detection” by Andrew Price (3395/7, April 17: 8 a.m. – 12 p.m., section 17)
- “Characterizing genomic variation and tumor heterogeneity in cancer” by Claudia Catanalotti (3400/12, April 17: 8 a.m. – 12 p.m., section 17)

About 10x Genomics

10x Genomics, Inc. is building tools for scientific discovery that reveal and address the true complexities of biology and disease. Through a combination of novel microfluidics, chemistry and bioinformatics, our award-winning Chromium System is enabling researchers around the world to more fully understand the fundamentals of biology at unprecedented resolution and scale. Learn more at www.10xGenomics.com.

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