10x Genomics and the Human Cell Atlas International Consortium Announce Partnership

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– The 10x Genomics Chromium Single Cell 3' and 5' RNA Analysis Solutions for scRNA-seq will facilitate pilot projects of the world's first Human Cell Atlas Project to embark on a comprehensive mapping of cells in the human body –

PLEASANTON, CA – OCTOBER 16, 2017 – 10x Genomics and the Human Cell Atlas international consortium today announced a partnership agreement to help enable pilot projects of the Human Cell Atlas project, which is the first major undertaking to map cells in the human body at unprecedented detail.

The Human Cell Atlas (HCA) project aims to characterize all of the cell types in the human body. Surprisingly little is known about the exact composition or number of cell types that exist, and current estimates suggest there are tens of trillions of cells and many thousands of unique cell types. 10x Genomics has partnered with HCA researchers to help enable the massive cell-by-cell characterization and gene-expression profiling needed for the project. Under the agreement, HCA consortium collaborating members, including researchers involved in individual projects as well as working within larger pilots, will be able to purchase the 10x Chromium Single Cell 3' and 5' RNA Analysis Solutions at discounted prices, to use in their research towards this ambitious goal.

"The Human Cell Atlas is one of the most important scientific research undertakings since the Human Genome Project," said Aviv Regev, Ph.D., Director of the Klarman Cell Observatory and Cell Circuits Program at the Broad Institute of MIT and Harvard and co-chair of the Human Cell Atlas organizing committee. "Recent advances in single-cell technology have allowed us to look at cells with a clarity and depth of analysis that we have never been able to achieve before, making this ambitious project a reality within reach."

The partnership agreement between 10x Genomics and the international Human Cell Atlas, which is non-exclusive, will help provide technical solutions to enable pilot projects for the Human Cell Atlas. The findings from each pilot project will be made available to the entire scientific community by the Human Cell Atlas international consortium as a valuable scientific resource for understanding disease, diagnostics and drug discovery going forward.

"The Human Cell Atlas will impact almost every aspect of biology and medicine, ultimately leading to a richer understanding of life's most fundamental units and principles. The project has implications for a vast range of scientific applications and disease areas, and will benefit research and discovery around the globe," said Sarah Teichmann, Ph.D., co-chair of the Human Cell Atlas organizing committee and Head of Cellular Genetics at the Wellcome Trust Sanger Institute.

The 10x Chromium Single Cell 3' and 5' RNA Analysis Solutions provide a comprehensive workflow for cell-by-cell characterization and gene expression analysis that can profile hundreds to millions of cells at massive scale. Researchers in the Human Cell Atlas project will leverage this scalability for single cell sequencing.

"We are excited to participate in this important project, which will have an impact on our understanding of basic human biology and disease, similar to what the Human Genome Project did for our understanding of genetics," said Serge Saxonov, chief executive officer and co-founder of 10x Genomics. "Our innovative technology enables massively parallel scRNA-seq analysis of hundreds to millions of individual cells, which is a revolutionary change in how gene expression experiments can and should be performed. We hope to see more ambitious projects tackle such massively complex biological problems, leveraging the scale and throughput our technology can provide."

About 10x Genomics

10x Genomics is changing the definition of sequencing by providing an innovative genomics platform that dramatically upgrades the capabilities of existing sequencing technologies. This is achieved through a combination of new microfluidic science, chemistry and bioinformatics. By implementing GemCode Technology within the Chromium System, researchers can now, for the first time, find new structural variants, haplotypes and other valuable genomic information with comprehensive workflows for Single Cell, V(D)J, Genome, Exome and *de novo* Assembly applications that incorporate their pre-existing sequencing technologies.

For more information about 10x Genomics, visit www.10xGenomics.com

About the Human Cell Atlas

The Human Cell Atlas (HCA) is an international collaborative consortium, which aims to create comprehensive reference maps of all human cells—the fundamental units of life—as a basis for both understanding human health and diagnosing, monitoring, and treating disease. The HCA is a foundational, open resource charting cells, tissues, organs and systems throughout the body. The HCA will impact every aspect of biology and medicine, propelling translational discoveries and applications and ultimately leading to a new era of precision medicine.

The HCA is steered and governed by an Organizing Committee, spanning 27 scientists from 10 countries and diverse areas of expertise. The HCA

Organizing Committee is currently co-chaired by Dr. Aviv Regev of the Broad Institute of MIT and Harvard (USA) and Dr. Sarah Teichmann of the Wellcome Trust Sanger Institute (UK).

For more information about The Human Cell Atlas, visit www.humancellatlas.org.

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