10x Genomics Accelerates Plant and Animal Research with Supernova 2.0

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–Optimized sample preparation protocols and software algorithms enable high-quality, cost-effective de novo assembly for agrigenomics and other non-human applications at scale.–

PLEASANTON, CA.—January 15, 2018–10x Genomics, Inc., a company focused on accelerating genomic discovery, today launched a new version of their *de novo* assembly solution to provide the fastest most cost-effective solution for creating high-quality *de novo* assemblies at scale for plants and animals. Enhancements to the Chromium *de novo* Assembly Solution, including the new version of the assembly software, Supernova 2.0, will be presented at the International Plant and Animal Genome Conference 2018 (PAGXXVI) being held from January 13th to 17th in San Diego, CA.

"The power of 10x Genomics' Chromium *de novo* Assembly Solution is that it is a simple process; a 'cookbook' library, standard low-cost sequencing, and push button assembly. Our one library yields long scaffolds for plants and insects, and 40 Mb scaffolds for mammals. We see this as the path to genome biology at scale," says David Jaffe, Computational Biology Fellow and co-developer of Supernova at 10x Genomics.

The *de novo* assembly solution supports high-throughput crop health, breeding, and other agrigenomic studies. With a low input DNA requirement of 1 ng and optimized DNA preparation protocols, researchers can create a high-quality *de novo* assembly from a single insect in as little as one week.

"Using 10x technology to do assemblies at scale democratizes the generation of reference genome assemblies and will change the way people think about agricultural genomics," said Doreen Ware, Research Scientist from USDA ARS and Cold Spring Harbor Laboratory.

Sample datasets generated by Supernova 2.0 will be publicly released, including genomes for humans, plants, insects and other animals, to showcase the improvements such as longer contigs, scaffolds, and phase blocks. Customers can download Supernova 2.0 software now from the company website.

A growing number of researchers are adopting the Chromium *de novo* Assembly Solution for non-human genomics studies, including members of the Genome 10K Vertebrate Genome Project (G10K-VGP). Many in the community are developing informatics tools to enhance Chromium *de novo* Assembly and the utility of Linked-Read data. This includes tools for better understanding model organisms, building reference genome sets, capturing biodiversity of species, and studying the evolution of organisms. Several novel tools will be presented at the PAG 2018 conference in San Diego.

For a full list of customer and company presentations at PAG 2018, download the 10x PAG 2018 Show Guide. Presentations include:

- "Enabling a Comprehensive View of the Genome with the Chromium System," a Corporate Workshop at the International Plant and Animal Genome Conference (PAGXXVI), Tuesday January 16th from 1:30-3:40 p.m. PT.
- "10x Genomics Supernova 2.0 and haplotype phasing," presented by Deanna Church, Senior Director of Applications of 10x Genomics, at the Vertebrate Genome Project (VGP) Genome 10k (G10K) Planning Meeting on Wednesday, January 17th at 11:00 a.m. PT.

A follow-on, Supernova 2.0-focused online presentation and live Q&A session on January 30th from 8:30 to 10:00 a.m. PT will be led by David Jaffe and Nikka Keivanfar at 10x Genomics as part of the ongoing 10x-pert Webinar Series.

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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